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Activation Analysis: A Bibliography Through 1971

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² Part of the Center for Radiation Research.

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Washington, D.C. 20234

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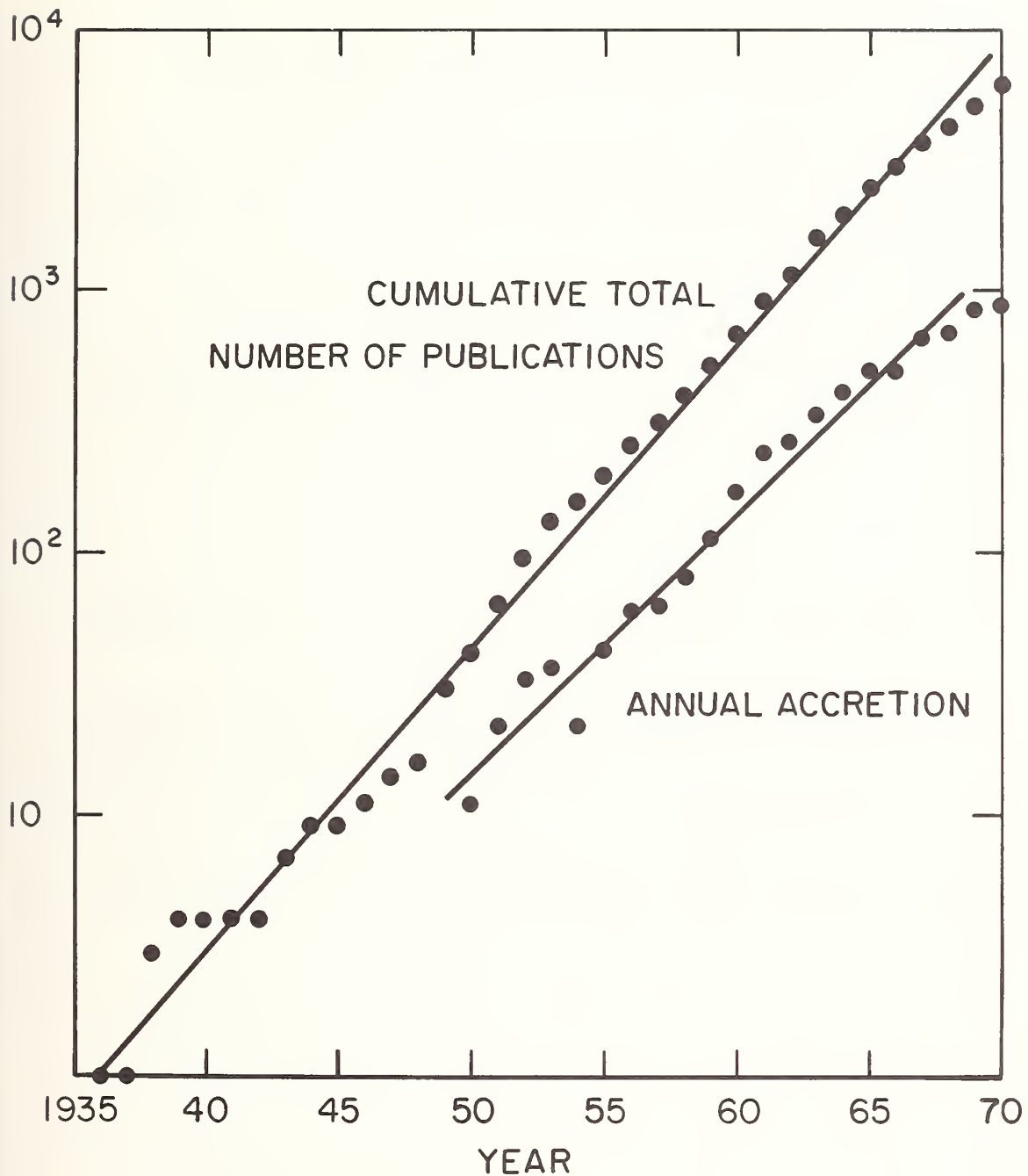
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**GROWTH RATE OF LITERATURE
OF ACTIVATION ANALYSIS**

OTHER NBS TECHNICAL NOTES IN THIS SERIES

- [1] Lutz, G. J., Editor, **Forensic Science: A Bibliography of Activation Analysis Papers**, Technical Note 519, 37 pages (Feb. 1970). 50 cents.*
- [2] Lutz, G. J., Editor, **Determination of the Light Elements in Metals: A Bibliography of Activation Analysis Papers**, Technical Note 524, 63 pages (May 1970). 75 cents.*
- [3] Lutz, G. J., Editor, **Pollution Analysis: A Bibliography of the Literature of Activation Analysis**, Technical Note 532, 23 pages (June 1970). 45 cents.*
- [4] Lutz, G. J., Editor, **14-MeV Neutron Generators in Activation Analysis: A Bibliography**, Technical Note 533, 82 pages (June 1970). \$1.00.*
- [5] Lutz, G. J., Editor, **Oceanography: A Bibliography of Selected Activation Analysis Literature**, Technical Note 534, 26 pages (June 1970). 50 cents.*

NBS PUBLICATION OF INTEREST TO USERS OF THIS SERIES

- [1] DeVoe, J. R. and LaFleur, P. D., Editors, **Modern Trends in Activation Analysis**, Proceedings of the 1968 International Conference on Modern Trends in Activation Analysis, National Bureau of Standards, Gaithersburg, Md., October 7-11, 1968, NBS Special Publication 312, Vols. I and II (June 1969). \$8.50 per set.*

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PREFACE

Activation analysis is generally considered to have its genesis in the classic papers of Hevesy and Levi in 1936 and of Seaborg and Livingood in 1938. The first 10 years of activation analysis yielded less than two dozen contributions to the literature, but the annual accretion rate of the subsequent two decades has shown an exponential growth, rising from 13 papers in 1949 to over 700 in 1971. This represents a doubling time of about three and one half years.

This fantastic growth of the literature can be attributed not only to the acceptance of activation analysis as a useful method for trace element analysis and the increasing availability of nuclear reactors, but also to the addition of several additional nuclear projectiles to the arsenal of activation analysis and the development of sophisticated radiochemical separation methods and radiation detection equipment.

The practitioner of activation analysis has a literature rapidly approaching 7,000 items, to which many hundreds of items are being added annually. Unless he is to spend more time in the library than in the laboratory, methods must be found to keep him apprised of those aspects of activation analysis in which he is interested or will subsequently become interested. This bibliography represents the efforts associated with one such method.

The literature file, on which this bibliography is based, was initiated in 1952 and, until 1964, used a manual retrieval method. At this time when the amount of material stood at about 2,000 items, it became apparent that computer techniques for retrieval would greatly increase the utility of the file.

For this purpose, each item in the file was coded to the three categories which are an irreducible minimum for defining an analysis—element determined, matrix analyzed, and technique used. The indices to Appendix I, II and III are the entries within these three categories. In addition, each item was keyed as to type of publication (journal article, thesis, *etc.*), language of publication, country of origin, year of publication and scope of publication.

For file manipulation and computer-assisted typesetting, a combination of computer programs developed at the National Bureau of Standards was adopted. Every character in the data file was coded in the General Purpose Scientific Document Image Code, also developed at the Bureau, such that its typescript, type style, font size, as well as its coordinates on a page are completely defined. This publication is a result of the applications of these computer programs to our information-retrieval system.

It is a pleasure to acknowledge extensive help from the many persons who contributed to this bibliography. Members of the Activation Analysis Section have assisted in searching, keying, and preparation and contributed many excellent suggestions for design of the system for maximum utility. G. Marinenko aided

in the translation of some Russian titles and abstracts. Special thanks are due to Mrs. B. L. Lockett of the NBS library for her capable assistance in obtaining material from outside sources. It is a pleasure to acknowledge the contributions and generous help of J. Hilsenrath, D. Garvin, R. Wagner, B. C. Duncan, C. G. Messina, R. C. McClenon, R. C. Thompson, and T. K. Ming for their part in the development of the required computer programming.

W. Wayne Meinke, Chief
Analytical Chemistry Division

ACTIVATION ANALYSIS: A BIBLIOGRAPHY THROUGH 1971

(Part 1)

Edited by

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References to papers published in the open literature which describe work using activation analysis are printed from a computer based storage and retrieval system. Published as a two-part volume, part I is a listing of references according to accession numbers (approximately 6,200), while part 2 is composed of four appendices. Appendix I is an index for the element determined, Appendix II is an index of the matrix analyzed, Appendix III is an index of the technique used, Appendix IV is an author index. The two parts when used together, permit a literature search defined by the several indices. The bibliography will be updated and reissued periodically.

Key words: Activation Analysis; bibliography; element determined; literature file; matrix analyzed; technique used.

I. INTRODUCTION

This bibliography is the computer-aided publication of the file of references on Activation Analysis maintained by the Activation Analysis Information Center of the National Bureau of Standards. This is the fourth issuance of the bibliography which was originally prepared for the attendees of the Conference "Modern Trends in Activation Analysis," held at the National Bureau of Standards in October 1968. The present bibliography covers the literature available to us through March 31, 1972.

II. HISTORY

The present system had its origin 20 years ago as a notched edge, needle-sort card system. By 1963, the files contained approximately 1,400 items and the system was computerized. For several years the INFOL information and retrieval system of the Control Data Corporation was used for storage of information in the files and its selective retrieval. In 1971 the data file was converted into one of General Purpose Scientific Document Image Code, in which every character is completely defined as to its typescript (upper and lower cases, Greek

alphabets, special symbols), style (roman, bold face, italic), font size, and page coordinates (line number, column number, subscripts, superscripts). Computer programs for use with the Bureau's UNIVAC-1108 computer have been developed for our file manipulation. The capabilities of these programs include, among other things, textual updating, editing, search, sorting, reformatting, and pagination. In addition, a driver for the Linotron photocomposition machine may be obtained for computer-aided typesetting. An extended character print on a line printer (IBM-1403) by the IBM-360/30 computer is also feasible.

III. PROCEDURE

A system of record keeping and cross checking of input items has been established and is summarized below.

A. SCANNING THE LITERATURE

An organized system for scanning the literature has been devised so that *Nuclear Science Abstracts*, *Chemical Abstracts* and *Chemical Titles* are systematically scanned by scientists in the Ac-

tivation Analysis Section. An accession number card, containing the identical information to be stored in the computer, is made for each reference found after the reference has been checked against the existing file to prevent duplication. Abstracts, when available, are copied and made a part of this card file. A cross-referenced card is made for each author and filed alphabetically.

B. PROCUREMENT OF REPRINTS FOR INCLUSION IN THE SYSTEM

Copies of papers are obtained when possible. The National Bureau of Standards Library subscribes to a large number of the journals in which the majority of activation analysis papers are published. Journals not held by the library are obtained through the inter-library loan service from various other libraries throughout the United States. A number of reprints are also received directly from scientists in all parts of the world working in the field.

C. KEYING

All papers are keyed from a copy of the reprint. Papers in a language other than English, which do not contain an English summary, are occasionally keyed from the available abstracts.

For each paper five keys are used: Key 1. Element to be determined; Key 2. Matrix analyzed; Key 3. Technique used; Key 4. Type of paper (*i.e.*, journal article, report, thesis), language, and country where work was done; Key 5. Analytical competence (*i.e.*, Activation Analysis for this particular bibliography). These keys are not limited so that additional subcategories may be made as needed.

This bibliography represents the complete contents of our system as of March 31, 1972, and is organized to present an optimum amount of information to its users. It is issued in two parts, part 1 gives a complete readout of the bibliographic information in the file arranged according to accession numbers and part 2 contains four appendices as follows: Appendix I is an index of the "element determined," Appendix II is an index of the "matrix analyzed," Appendix III is an index of the "technique used," and Appendix IV is an author index. Each index lists the accession number of each paper which has been keyed for a particular entry.

Users of this bibliography are encouraged to offer suggestions to the editors as to how this bibliography could be made more useful and also to provide copies of papers which may have been inadvertently omitted.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1 Depangher, J., Nichols, L. L.,
Kent, R. A. R.
**Characteristics of a large neutron
moderator for activation studies.**
HW-73913, 40p. (1962).
(ENGLISH). GENERAL ELECTRIC CO.,
RICHLAND, WASHINGTON.
- 2 Airoidi, G., Germagnoli, E.
**Methods for quantitative
measurement of iridium content in
platinum.**
Energia Nucleare, 4, 301-306
(1957)
(ENGLISH) (ITALIAN SUMMARY). CISE
LABORATORIES, MILANO, ITALY.
- 3 Albert, P.
**Application of radioelements to
problems of very high purity
metals.**
Chimie et Industrie (Paris), 75,
275-286 (1956).
(FRENCH) (ENGLISH AND SPANISH
SUMMARIES). DOCTEUR ES SCIENCES,
CHEF DE SERVICE AU CENTRE
D'ETUDES DE CHIMIE METALLURGIQUE
DE VITRY.
- 4 Albert, P.
**Application of radioelements to
the purification of aluminum and
of iron.**
Theses, Serie A, No. 2928, No.
d'Ordre 3799, 72p. Masson et Cie,
Editeurs, Paris (1955).
(FRENCH). FACULTY OF SCIENCES,
UNIVERSITY OF PARIS, PARIS, FRANCE.
- 5 Albert, P., Caron, M., Chaudron,
G.
**Analysis of metal impurities in
iron of high purity by the pile
activation method.**
Compt. Rend., 236, 1030-1031
(1953).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE,
VITRY-SUR-SEINE, FRANCE.
- 6 Albert, P., Caron, M., Chaudron,
G.
**Analysis of the traces of sodium
and copper in high purity
aluminum by pile-activation.**
Radioisotope Techniques, Volume
II, 171-178, Proceedings of the
Isotope Techniques Conference,
Oxford, July 1951, Industrial and
Allied Research Applications,
HMSO, London (1952).
(ENGLISH). LAB. CENTRAL DES
TRAITEMENTS CHIMIQUES, VITRY SUR
SEINE, FRANCE.
- 7 Albert, P., Caron, M., Chaudron,
G.
**Determination of traces of sodium,
copper and rare earths in
aluminium of high purity by the
pile activation method.**
Compt. Rend., 233, 1108-1110
(1951).
(FRENCH). CENTRE D'ETUDE DE
CHIMIE METALLURGIQUE, VITRY SUR
SEINE, FRANCE.
- 8 Albert, P., Chaudron, G., Sue, P.
**Microdetermination by chemical
means of carbon in deuterium
irradiated iron.**
Bull. Soc. Chim. France, C97-C102
(1953).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE, VITRY SUR
SEINE, FRANCE.
- 9 Ehmann, W. D.
**Trace element determinations in
natural materials by activation
analysis.**
CONF-151-4, 19th International
Union of Pure and Applied
Chemistry Congress, London, 22p.
(1963).
(ENGLISH). UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 10 Alperovitch, E. A.
**Contribution to the problem of
naturally occurring technetium.**
NYO-6139, 101p. (1954).
(ENGLISH). COLUMBIA UNIVERSITY,
NEW YORK, N.Y.
- 11 Alperovitch, E. A., Miller, J. M.
**Occurrence of technetium-98 in
nature.**
Nature, 176, 299-301 (1955).
(ENGLISH). CHEMISTRY DEPT.,
COLUMBIA UNIV., NEW YORK, N.Y.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 12 Amano, H.
Studies on analytical method for trace elements in metals by using radioactive isotope. VII. Determination of copper, gallium and antimony in pure silicon by radioactivation method.
Science Reports of the Research Institutes Tohoku University, Series A, **12**, No. 1, 16–23 (1960)
 (ENGLISH). THE RESEARCH INSTITUTE FOR IRON, STEEL AND OTHER METALS. TOHOKU UNIVERSITY, SENDAI, JAPAN.
- 13 Ambrosino, G., Pindrus, P.
Non-destructive analysis of ancient metallic objects.
Revue de Metallurgie, **50**, 136–138 (1953)
 (FRENCH). FRANCE.
- 14 Abrao, A.
Simultaneous determination of gold and uranium in ores by radioactivation analysis.
IEA-7, 17p. (1959).
 (ENGLISH). UNIV. INST. DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 15 Anders, E., Sen Sarma, R. N., Kato, P. H.
Search for technetium-98 by neutron activation analysis.
J. Chem. Phys., **24**, 622–623 (1956).
 (ENGLISH). DEPT. OF CHEMISTRY AND CHEMICAL ENGINEERING, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.
- 16 Anders, O. U.
Neutron-activation sensitivities.
Nucleonics, **18**, No. 11, 178–179 (1960).
 (ENGLISH). THE DOW CHEMICAL CO., RADIOCHEMISTRY LAB., MIDLAND, MICHIGAN.
- 17 Anders, O. U.
Determination of fluorine by neutron activation.
Anal. Chem., **32**, 1368–1369 (1960).
 (ENGLISH). THE DOW CHEMICAL CO., RADIOCHEMISTRY LAB., MIDLAND, MICHIGAN.
- 18 Anders, O. U., Beamer, W. H.
Resolution of time-dependent gamma spectra with a digital computer and its use in activation analysis.
Anal. Chem., **33**, 226–230 (1961).
 (ENGLISH). THE DOW CHEMICAL CO., RADIOCHEMISTRY LAB., MIDLAND, MICHIGAN.
- 19 Gibbons, D.
Radioactivation analysis.
Atom, No. 54, 12–13, 15 (1961).
 (ENGLISH). WANTAGE RESEARCH LAB., BERKS, ENGLAND.
- 20 Aoki, F., Okada, M.
Optimum sample position in radioactivation analysis using radium-beryllium neutron source in paraffin moderator.
Bull. Chem. Soc. Japan, **31**, 996–997 (1958).
 (ENGLISH). GOVT. CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, SHIBUYA-KU, TOKYO, JAPAN.
- 21 Accardo C. A., Hendel, H. W., Lauttman, R. G., Stein, M. N.
Induced antimony activity in mylar.
Nucleonics, **17**, 106 (1959).
 (ENGLISH). U.S. ARMY SIGNAL RES. AND DEVEL. LAB., FT. MONMOUTH, N.J.
- 22 Atchison, G. J., Beamer, W. H.
Determination of trace impurities in magnesium by activation analysis.
Anal. Chem., **24**, 1812–1815 (1952).
 (ENGLISH). THE DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 23 Atchison, G. J., Beamer, W. H.
Neutron activation analysis with the Van de Graaff accelerator. Application to the halogens.
Anal. Chem., **28**, 237–243 (1956).
 (ENGLISH). THE DOW CHEMICAL CO., RADIOCHEMISTRY LAB., MIDLAND, MICHIGAN.
- 24 Aten, A. H. W.
Study of Hf/Zr mixtures by

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- activation with fast neutrons.**
Ned. T. Natuurk., **10**, 257–259
 (1943).
 (DUTCH). NATUURKUNDIG
 LABORATORIUM DER N.V. PHILIPS
 GLOEILAMPENFABRIEKEN, EINDHOVEN –
 HOLLAND.
- 25 Aten, A. H. W.
**Isotopes as tracers in analytical
 chemistry.**
Anal. Chim. Acta, **2**, 492–500
 (1948).
 (ENGLISH) (FRENCH AND GERMAN
 SUMMARIES). INSTITUTE FOR
 NUCLEAR RESEARCH, AMSTERDAM,
 NETHERLANDS.
- 26 Atkins, D. H. F., Smales, A. A.
**The determination of tantalum and
 tungsten in rocks and meteorites
 by neutron activation analysis.**
Anal. Chim. Acta, **22**, 462–478
 (1960).
 (ENGLISH) (FRENCH AND GERMAN
 SUMMARIES). AERE, HARWELL,
 ENGLAND.
- 27 Atkins, D. H. F., Smales, A. A.
Activation analysis.
*Advances in Inorganic Chemistry
 and Radiochemistry*, **1**, 315–345
 (1959).
 (ENGLISH). UNITED KINGDOM AERE,
 DIDCOT, ENGLAND.
- 28 Aubry, J., Flechon, J., May, S.
**An example of activation analysis
 used in the study of the role of
 palladium in the formation of
 chemical deposits of nickel.**
Energie Nucleaire, **2**, 359–367
 (1960).
 (FRENCH). FACULTE DES SCIENCES DE
 NANCY.
- 29 Bailey, L. E.
**Surface analysis by nuclear
 techniques. Interim Technical
 Report No. 1 for July 1, 1955 to
 July 31, 1956.**
 NP-6083, 29p. (August 24, 1956).
 (ENGLISH). STANFORD RESEARCH
 INST., MENLO PARK, CALIF.
- 30 Bancie-Grillot, M.
**The diffusion of silver into the
 crystal lattice of luminescent
 cadmium sulphide.**
Compt. Rend., **242**, 1159–1161
 (1956).
 (FRENCH). LABORATOIRE DE
 LUMINESCENCE, FACULTE DES
 SCIENCES DE PARIS, FRANCE.
- 31 Bancie-Grillot, M.
**Radiochemical microanalysis of
 chlorine and silver in the
 luminescent sulfides of zinc and
 cadmium.**
*15th International Congress of
 Pure and Applied Chemistry,
 Lisbon, Paper V-12* (France),
 643–650 (1956).
 (FRENCH). LABORATOIRE DE
 LUMINESCENCE, FACULTE DES SCIENCE
 DE PARIS, FRANCE.
- 32 Bancie-Grillot, M., Grillot, E.
**Radiochemical microanalysis of
 chlorine in crystals of
 luminescent zinc sulphide.**
Compt. Rend., **237**, 171–173 (1953).
 (FRENCH). LABORATOIRE DE
 LUMINESCENCE, FACULTE DES SCIENCE
 DE PARIS, FRANCE.
- 33 Banks, T. E., Tupper, R., White,
 E. M. A., Wormall, A.
**Micro determination of zinc in
 blood and other tissues by
 neutron activation analysis.**
Biochem. J., **71**, 21 (1959).
 (ENGLISH). DEPARTMENT OF
 BIOCHEMISTRY AND CHEMISTRY, AND
 DEPARTMENT OF PHYSICS, MEDICAL
 COLLEGE OF ST. BARTHOLOMEWS
 HOSPITAL, LONDON, E.C. 1, ENGLAND
- 34 Banks, T. E., Tupper, R., White,
 E. M. A., Wormall, A.
**Micro-determination of zinc in
 blood and other tissues by
 neutron activation analysis.**
*Intern. J. Applied Radiation
 Isotopes*, **4**, 221–226 (1959).
 (ENGLISH) (FRENCH, RUSSIAN AND
 GERMAN SUMMARIES). DEPARTMENTS
 OF BIOCHEMISTRY AND PHYSICS, THE
 MEDICAL COLLEGE OF ST.
 BARTHOLOMEWS HOSPITAL, LONDON,
 ENGLAND.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 35 Bergstrom, J.
Muscle electrolytes in man determined by neutron activation analysis on needle biopsy specimens.
Scand. J. Clin. Lab. Invest., **14**, Suppl. 68, 110p. (1962).
 (ENGLISH). ST. ERIKS SJUKHUS, STOCKHOLM, SWEDEN.
- 36 Borgholthaus, D.
A computer technique for spectral analysis.
 FZM-1969, 19p. (1960).
 (ENGLISH). CONVAIR, A DIVISION OF GENERAL DYNAMICS CORP., FORT WORTH, TEXAS.
- 37 Barreira, F., Laranjeira, M.
Analytical distinction between natural rubber and neoprene by neutron irradiation.
15th International Congress of Pure and Applied Chemistry, Lisbon, Paper V-2 (Portugal), 583-586 (1956).
 (FRENCH). CENTROS DE ESTUDOS DA ENERGIA NUCLEAR LABORATORIO DE FISICA, LISBONNE, PORTUGAL.
- 38 Basile, R., Hure, J., Leveque, P., Schuhl, C.
The possibility of determining oxygen by the (γ ,n) reaction using a betatron.
Compt. Rend., **239**, 422-424 (1954).
 (FRENCH). FRANCE.
- 39 Bate, G. L., Potratz, H. A., Huizenga, J. R.
Scandium, chromium and europium in stone meteorites by simultaneous neutron activation analysis.
Geochim. Cosmochim. Acta, **18**, 101-107 (1960).
 (ENGLISH) ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 40 Bate, G. L., Huizenga, J. R., Potratz, H. A.
Thorium in stone meteorites by neutron activation analysis.
Geochim. Cosmochim. Acta, **16**, 88-100 (1959).
 (ENGLISH). ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 41 Bate, G. L., Huizenga, J. R., Potratz, H. A.
Thorium content of stone meteorites.
Science, **126**, 612-614 (1957).
 (ENGLISH). ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 42 Bate, G. L., Potratz, H. A., Huizenga, J. R.
Thorium in iron meteorites: A preliminary investigation.
Geochim. Cosmochim. Acta, **14**, 118-125 (1958).
 (ENGLISH). ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 43 Bate, L. C., Leddicotte, G. W.
An evaluation of the particle-size distribution in multicomponent systems.
 TID-7568 (Pt. 3), 43-55 (1959).
 (ENGLISH). ORNL, OAK RIDGE, TENN.
- 44 Baumgartner, F.
The practical application of an activation analysis chlorine determination in zinc sulphide.
Kerntechnik, **1**, 137-139, 183-187 (1959).
 (GERMAN). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MUNCHEN, REAKTORSTATION GARCHING.
- 45 Beard, D. B., Johnson, R. G., Bradshaw, W. G.
Radioactivation of oxygen and carbon in beryllium.
 LMSD-5065, 20p. (August 1958).
 (ENGLISH). NUCLEAR PHYSICS DEPT., RESEARCH AND DEVELOPMENT BRANCH, LOCKHEED AIRCRAFT CORP., SUNNYVALE, CALIF.
- 46 Beard, D. B., Johnson, R. G., Bradshaw, W. G.
Photon activation measures oxygen, carbon in beryllium.
Nucleonics, **17**, No. 7, 90-94, 96 (July 1959).
 (ENGLISH). LOCKHEED AIRCRAFT CO., PALO ALTO, CALIF.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 47 Benson, A. A.
Application of the nuclear reactor in biochemical analysis—neutron activation chromatography.
Second United Nations International Conference on the Peaceful Uses of Atomic Energy, **24**, P/858, 289–293 (1958).
 (ENGLISH) DEPT. OF AGRICULTURAL AND BIOLOGICAL CHEMISTRY, PENNSYLVANIA STATE UNIV., UNIVERSITY PARK, PENNSYLVANIA.
 by neutron activation using a radium–beryllium source.
 TID-7568 (Part 2), 158–177 (1958).
 (ENGLISH). NATIONAL LEAD COMPANY OF OHIO, CINCINNATI, OHIO.
- 48 Bergstrom, J.
Determination of chlorine in muscle tissues by neutron activation analysis.
Nature, **184**, 1504–1505 (1959).
 (ENGLISH). THE CENTRAL CLINICAL LAB., ST. ERIKS HOSPITAL, STOCKHOLM, SWEDEN.
- 49 Bradshaw, W. G., Johnson, R. G., Beard, D. B.
Beryllium analyzed for trace impurities by gamma-ray activation.
 LMSD-288231, 27p. (January 1960).
 (ENGLISH). LOCKHEED AIRCRAFT CORP., MISSILES AND SPACE DIV., SUNNYVALE, CALIF.
- 50 Dahl, J. B., Johansen, O., Steinnes, E.
Activation analysis of iodide in biological fluids.
 KR-80, 10p. (December 1964).
 (ENGLISH). INSTITUTE FOR ATOMENERGI, KJELLER RESEARCH ESTABLISHMENT, KJELLER, NORWAY.
- 51 Beydon, J., Fisher, C.
Determination of the oxides of tantalum, niobium and titanium in their mixtures by radioactivity.
Anal. Chim. Acta, **8**, 538–545 (1953).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTMENT DE CHIMIE APPLIQUEE GIF-SUR-YVETTE, FRANCE.
- 52 Beyer, W. W., Lewis, J. N., Stukenbroeker, G. L.
The determination of uranium-235
- 53 Beyer, W. W., Lewis, J. N., Stukenbroeker, G. L.
The determination of U²³⁵ by neutron activation.
 TID-7531 (Part 1), 97–120 (1957).
 (ENGLISH). NATIONAL LEAD COMPANY OF OHIO, CINCINNATI, OHIO.
- 54 Blanchard, R. L., Leddicotte, G. W.
The determination of trace elements in water by neutron activation analysis.
 ORNL-2620, 72p. (1959).
 (ENGLISH). USAEC, ORNL, OAK RIDGE, TENNESSEE.
- 55 Blanchard, R. L., Leddicotte, G. W., Moeller, D. W.
Neutron-activation analysis of drinking water.
Second United Nations International Conference on the Peaceful Uses of Atomic Energy, **28**, P/796, 511–516 (1958).
 (ENGLISH). ORNL, USAEC, OAK RIDGE, TENN.
- 56 Blanchard, R. L., Leddicotte, G. W., Moeller, D. W.
Water analysis by neutron activation.
J. Am. Water Works Assoc., **51**, 967–980 (1959).
 (ENGLISH). ORNL, US AEC, OAK RIDGE, TENNESSEE.
- 57 Blanzat, A., Quesson, M., Soule, J. L., Thouzeau, G.
Study on the homogeneity of samples of coal for analysis by activation of the inorganic matter in an atomic pile.
Bull. Soc. Chim. France, 317–320 (1956).
 (FRENCH). TRAVAIL EFFECTUE AU CENTRE D'ETUDES ET RECHERCHES DES CHARBONNAGES DE FRANCE.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 58 Gilman, A. R., Isserow, S.
Analysis of oxygen in beryllium.
 NMI-1234, 25p. (May 3, 1960).
 (ENGLISH). NUCLEAR METALS INC.,
 CONCORD, MASS.
- 59 Borg, D. C.
**Application of activation
 analysis to biological and
 medical research.**
*Second United Nations
 International Conference on the
 Peaceful Uses of Atomic Energy,*
24, P/841, 283-288 (1958).
 (ENGLISH). MEDICAL DEPT.,
 BROOKHAVEN NATIONAL LAB., UPTON,
 NEW YORK.
- 60 Born, H. J.
**Status and scope of activation
 analysis.**
Kerntechnik, **3,** 12-14 (1961).
 (GERMAN). MUNCHEN, GERMANY.
- 61 Born, H. J., Stark, H.
**Quantitative determination of
 iodine and iodine containing
 compounds on paper chromatograms
 by neutron activation.**
Atomkernenergie, **4,** 286-289
 (1959).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FUR RADIOCHEMIE UND
 LABORATORIUM FUR TECHNISCHE
 PHYSIK DER TH MUNCHEN, GERMANY.
- 62 Bowen, H. J. M.
**The determination of chlorine,
 bromine and iodine in biological
 material by activation analysis.**
Biochem. J., **73,** 381-384 (1959).
 (ENGLISH). WANTAGE RADIATION
 LAB., GROVE, BERKS, ENGLAND.
- 63 Bowen, H. J. M.
**The determination of copper and
 zinc in biological material by
 activation analysis.**
*Intern. J. Appl. Radiation
 Isotopes,* **4,** 214-220 (1959).
 (ENGLISH) (FRENCH, RUSSIAN AND
 GERMAN SUMMARIES). TECHNOLOGICAL
 IRRADIATION GROUP, ISOTOPE
 DIVISION, WANTAGE RADIATION LAB.,
 GROVE, BERKSHIRE, ENGLAND.
- 64 Bowen, H. J. M.
**The determination of manganese in
 biological material by activation
 analysis, with a note on the
 gamma spectrum of blood.**
J. Nucl. Energy, **3,** 18-24 (1956).
 (ENGLISH). ATOMIC ENERGY RESEARCH
 ESTABLISHMENT, HARWELL, DIDCOT,
 BERKS, ENGLAND.
- 65 Bowen, H. J. M.
**The determination of tungsten in
 biological material by activation
 analysis.**
Biochem. J., **77,** 79-82 (1960).
 (ENGLISH). WANTAGE RADIATION
 LABORATORY, GROVE, BERKS,
 ENGLAND.
- 66 Bowen, H. J. M.
**The determination of gallium and
 molybdenum in biological material
 by activation analysis.**
*Intern. J. Appl. Radiation
 Isotopes,* **5,** 227-232 (1959).
 (ENGLISH) (FRENCH, RUSSIAN AND
 GERMAN SUMMARIES). TECHNOLOGICAL
 IRRADIATION GROUP, ISOTOPE
 DIVISION WANTAGE RADIATION
 LABORATORY, GROVE, BERKSHIRE,
 ENGLAND.
- 67 Bowen, H. J. M., Dymond, J. A.
**Strontium and barium in plants and
 soils.**
Proc. Roy. Soc. B, **144,** 355-368
 (1955).
 (ENGLISH). RADIOLOGICAL RESEARCH
 UNIT, AERE, HARWELL, ENGLAND.
- 68 Bowen, H. J. M., Cawse, P. A.
**The determination of inorganic
 elements in biological tissue.**
 AERE-R 2925, 37p. (1959).
 (ENGLISH). WANTAGE RADIATION
 LABORATORY, GROVE, BERKSHIRE,
 ENGLAND.
- 69 Henry, W. M.
**Development of analytical
 techniques for the determination
 of minute quantities of selected
 elements in beryllium. Interim
 Report No. 3, Oct. 6, 1962 thru
 Dec. 6, 1962.**
 AD-294406, 6p. (January 11, 1963).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (ENGLISH). BATTELLE MEMORIAL INST., COLUMBUS, OHIO.
- 70 Boyd, G. E.
The method of activation analysis.
 AECD-2507, 57p. (1949).
 (ENGLISH). ORNL, OAK RIDGE, TENNESSEE.
- 71 Boyd, G. E., Hume, D. N.
Radiochemical analytical methods.
National Nuclear Energy Series, Vol. VIII, Chapter 28, 662-692,
 McGraw Hill, New York (1950).
 (ENGLISH). ORNL, OAK RIDGE, TENN.
- 72 Boyd, G. E., Larson, Q. V.
Report on the occurrence of technetium on the earths crust.
J. Phys. Chem., 60, 707-715
 (1956).
 (ENGLISH). ORNL, OAK RIDGE, TENNESSEE.
- 73 Bradley, J. E. S., Bradley, O.
A first attempt at a determination of feldspars by activation analysis.
Mineralog. Mag., 31, 164-172
 (1956).
 (ENGLISH). KINGS COLLEGE, LONDON, W.C. 2, ENGLAND.
- 74 Bradshaw, W. G.
An evaluation of techniques for the analysis of oxygen in beryllium.
 LMSD-2312, 43p. (March 14, 1958).
 (ENGLISH). LOCKHEED AIRCRAFT CORP., SUNNYVALE, CALIF.
- 75 Breger, A. K., Ormont, B. F., Kutsev, V. S., Viting, B. I., Chapyzhnikov, B. A.
The utilization of bremsstrahlung from the betatron for the determination of the oxygen content in semi-conducting and metallic materials (with special reference to oxycarbides of titanium).
J. Inorg. Chem., USSR, 2, 358-363
 (1957).
 (ENGLISH TRANSLATION). USSR.
- 76 International Atomic Energy Commission
Practical applications of short-lived radioisotopes.
Intern. At. Energy Agency Bull., 5, 24-26 (Jan. 1963).
 (ENGLISH). INTERNATIONAL ATOMIC ENERGY COMMISSION.
- 77 Bronner, W. L., Ehlers, K. W., Eukel, W. W., Gordon, H. S., Marker, R. C., Voelker, F., Fink, R. W.
High-current, 400-kv Cockcroft-Walton accelerator.
Nucleonics, 17, No. 1, 94-97
 (January 1959).
 (ENGLISH). APPLIED RADIATION CORP., WALNUT CREEK, CALIF.
- 78 Brooksbank, W. A.
Study in activation analysis.
 ORNL-2226, 66p. (1956).
 (ENGLISH). ORNL, OAK RIDGE, TENNESSEE.
- 79 Brooksbank, W. A., Leddicotte, G. W.
Ion-exchange separation of trace impurities.
J. Phys. Chem., 57, 819-823
 (1953).
 (ENGLISH). ANAL. CHEM. DIV., ORNL, OAK RIDGE, TENNESSEE.
- 80 Brooksbank, W. A., Leddicotte, G. W., Mahlman, H. A.
Analysis for trace impurities by neutron activation.
J. Phys. Chem., 57, 815-819
 (1953).
 (ENGLISH). ANAL. CHEM. DIV., ORNL, OAK RIDGE, TENNESSEE.
- 81 Brooksbank, W. A., Leddicotte, G. W., Reynolds, S. A.
Determination of trace elements in titanium by neutron activation analysis.
Anal. Chem., 28, 1033-1035 (1956).
 (ENGLISH). ANAL. CHEM. DIV., ORNL, OAK RIDGE, TENNESSEE.
- 82 Brooksbank, W. A., Leddicotte, G. W., Strain, J. E.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Neutrons in chemical analysis.**
Preprint 308, Nuclear Eng. and
Sci. Congress, Cleveland, 10p.
(Dec. 1955).
(ENGLISH). ORNL, OAK RIDGE,
TENNESSEE.
- 83 Brooksbank, W. A., Leddicotte, G.
W., Dean, J. A.
**Neutron activation analysis of
aluminum-base alloys.**
Anal. Chem., **30**, 1785–1788 (1958).
(ENGLISH). ANAL. CHEM. DIV.,
ORNL, OAK RIDGE, TENNESSEE.
- 84 Brown, H., Goldberg, E. D.
**The neutron pile as a tool in
quantitative analysis; the
gallium and palladium content of
iron meteorites.**
Science, **109**, 347–353 (1949).
(ENGLISH). INSTITUTE FOR NUCLEAR
STUDIES, UNIV. OF CHICAGO, AND
ARGONNE NATIONAL LAB., CHICAGO,
ILLINOIS.
- 85 Brown, H., Goldberg, E. D.
**The radiometric determination of
gold and rhenium in iron
meteorites.**
AECU-495, 6p.
(ENGLISH). UNIVERSITY OF CHICAGO
AND ARGONNE NATIONAL LABORATORY,
CHICAGO, ILLINOIS.
- 86 Brown, H., Goldberg, E. D.
**A new determination of the
relative abundance of rhenium in
nature.**
Phys. Rev., **76**, 1260–1261 (1949).
(ENGLISH). INSTITUTE FOR NUCLEAR
STUDIES, UNIV. OF CHICAGO AND
ARGONNE NATIONAL LAB., CHICAGO,
ILLINOIS.
- 87 De Bruyne, P., Hoste, J.
**Determination of magnesium in
nodular castings by activation
analysis using high-energy
deuterons.**
Bull. Soc. Chim. Belg., **72**,
761–775 (1963).
(FRENCH) (ENGLISH SUMMARY)
RIJKSUNIVERSITET, GHENT.
- 88 Amiel, S., Stuhl, Z.
**Radioactivation analysis of
manganese by counting deuterium
photoneutrons.**
Radiochim. Acta, **3**, No. 4, 199–204
(1964).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
DEPARTMENT, SOREQ RESEARCH
ESTABLISHMENT, ISRAEL ATOMIC
ENERGY COMMISSION, YAVNE, ISRAEL.
- 89 Brownlee, J. L.
**Neutron activation analysis by
means of short-lived isotopes.**
TID-6311, 208p. (June 1960).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 90 Brues, A. M., Robertson, O. H.
**Determination of protein bound
thyroid iodine by neutron
activation.**
Extract from AECD-2009 (1947).
(ENGLISH). CHICAGO, ILLINOIS.
- 91 Burrill, E. A., Gale, A. J.
**Activation analysis with Van de
Graaff neutron sources.**
High Voltage Engineering Corp.,
12p. (1954).
(ENGLISH). HIGH VOLTAGE ENG.
CORP., CAMBRIDGE, MASS.
- 92 Burrill, E. A., Gale, A. J.
**Activation analysis with Van de
Graaff neutron sources.**
High Voltage Engineering Corp.
Bulletin AA, 12p. (July 1960).
(ENGLISH). HIGH VOLTAGE ENG.
CORP., CAMBRIDGE, MASS.
- 93 Cabell, M. J., Thomas, A.
**The determination of rubidium and
caesium in sodium-potassium
alloys and related materials by
radioactivation.**
AERE C/R 1725, 12p. (December
1955).
(ENGLISH). AERE HARWELL,
ENGLAND.
- 94 Cabell, M. J., Smales, A. A.
Radiochemical methods in analysis.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Research (London)*, **9**, 214–219 (1956).
(ENGLISH). AERE, HARWELL, ENGLAND.
- 95 Cabell, M. J.
Neutron activation analysis.
Ind. Chemist, **33**, 345–351 (1957).
(ENGLISH). AERE, HARWELL, ENGLAND.
- 96 Cabell, M. J., Smales, A. A.
The determination of rubidium and caesium in rocks, minerals and meteorites by neutron-activation analysis.
Analyst, **82**, 390–406 (1957).
(ENGLISH). AERE, HARWELL, ENGLAND.
- 97 Cadwell, J. J.
Feasibility report—measurement of stainless steel corrosion rates by activation analysis.
HW-39045, 23p. (September 16, 1955).
(ENGLISH). METALLURGY RESEARCH SUB-SECTION, PILE TECHNOLOGY SECTION, ENGINEERING DEPARTMENT.
- 98 Caldwell, R. L., Mills, W. R.
Activation analysis in petroleum exploration research.
Nucl. Instr. and Meth., **5**, 312–322 (1959).
(ENGLISH). SOCONY-MOBIL OIL CO., INC., FIELD RESEARCH LAB., DALLAS, TEXAS.
- 99 Calkins, G. D.
Radioactive methods of analysis.
Ohio J. Sci., **52**, 151–160 (1952).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, COLUMBUS, OHIO.
- 100 Cameron, A. E., Herr, W., Herzog, W., Lunden, A.
Isotope enrichment of bromine through electrolytic transference in molten lead bromide.
Z. Naturforsch., **11A**, 203–205 (1956).
(GERMAN). AUS DEM PHYSIKALISCHEN INSTITUT DER CHALMERS TECHNISCHEN HOCHSCHULE, GÖTEBORG, UND DEM MAX-PLANCK-INSTITUT FÜR CHEMIE, MAINZ, GERMANY.
- 101 Cember, H.
Neutron activation, an ultrasensitive analytical tool.
A.M.A. Arch. Ind. Health, **17**, 527–532 (1958).
(ENGLISH). GRADUATE SCHOOL OF PUBLIC HEALTH, UNIV. OF PITTSBURGH.
- 102 Chaudron, G.
Contribution to the problem of last traces of impurities in metals.
Bull. Soc. Chim. France, 419–422 (1954).
(FRENCH). LABORATOIRES DE VITRY DU C.N.R.S., FRANCE.
- 103 Chaudron, G.
Radioanalysis of high purity aluminum obtained by the zone-melting process.
Recueil des Travaux Chim. des Pays-Bas, **79**, 502–509 (1960).
(FRENCH). LABORATOIRES DE VITRY DU C.N.R.S., FRANCE.
- 104 Chauvin, R., Leveque, P.
Utilization of an impulsion discriminator attached to a gamma scintillation detector for activation analysis.
Intern. J. Appl. Rad. and Isotopes, **1**, 115–122 (1956).
(FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). SECTION D'APPLICATIONS DES RADIOELEMENTS-C.E.N. SACLAY, FRANCE.
- 105 Mahony, J. D.
Reactions of ^3He with light elements: Applications to activation analysis.
UCRL-11780 (Thesis), 62p. (January 1965).
(ENGLISH). UCRL, BERKELEY, CALIF
- 106 Clark, H. M., Overman, R. T.
Determination of trace amounts of elements by radioactivation

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- analysis.**
MDDC-1329, 5p.
(ENGLISH). CLINTON LABORATORIES.
- 107 Colard, J., Kuyper, E.
Application of activation analysis to some problems of the petroleum industry.
Annales de la Societe Belge pour l'Etude du Petrole, **2**, 49-56 (1960).
(FRENCH). CHARGE DU GROUPE DE SPECTROMETRIE AU CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE.
- 108 Coleman, R. F., Perkin, J. L.
The determination of the oxygen content of beryllium metal by activation.
Analyst, **84**, 233-236 (1959).
(ENGLISH). UK AEA, AWRE, ALDERMASTON, BERKS, ENGLAND.
- 109 Coleman, R. F., Perkin, J. L.
Apparatus for the routine determination of the oxygen content of beryllium metal by activation.
Analyst, **85**, 154-155 (1960).
(ENGLISH). UK AEA, AWRE, ALDERMASTON, BERKS, ENGLAND.
- 110 Coleman, R. F.
Isotopic determination of lithium by neutron activation.
Analyst, **85**, 285-288 (1960).
(ENGLISH). UK AEA, AWRE, ALDERMASTON, BERKS, ENGLAND.
- 111 Coleman, R. F.
The determination of trace elements by fast-neutron activation analysis.
Analyst, **86**, 39-44 (1961).
(ENGLISH). UK AEA, AWRE, ALDERMASTON, BERKS, ENGLAND.
- 112 Kozuka, H., Niwase, K.
Application of activation analysis in criminal investigations.
Kagaku Keisatsu Kenkyusho Hokoku, **19**, 211-214 (September 1966).
(JAPANESE). NATIONAL RESEARCH
- INSTITUTE OF POLICE SCIENCES,
JAPAN.
- 113 Martin, T. C., Mathur, S. C., Morgan, I. L.
The application of nuclear techniques in coal analysis.
CONF-124-1, 40p. (1963).
(ENGLISH). TEXAS NUCLEAR CORP., AUSTIN, TEXAS.
- 114 Coon, J. H.
He³ isotopic abundance.
Phys. Rev., **75**, 1355-1357 (1949).
(ENGLISH). LOS ALAMOS SCIENTIFIC LAB., LOS ALAMOS, NEW MEXICO.
- 115 Cornish, F. W.
A preliminary report on the determination of submicrogram quantities of individual rare earths by radioactivation using ion exchange separation.
AERE C/R 1224, 44p. (1953).
(ENGLISH). AERE, HARWELL, BERKS., ENGLAND.
- 116 Cosgrove, J. F., Morrison, G. H.
Activation analysis of trace impurities in tungsten using scintillation spectrometry.
Anal. Chem., **29**, 1017-1019 (1957).
(ENGLISH). CHEMISTRY LAB., SYLVANIA ELECTRIC PRODUCTS INC., FLUSHING, N.Y.
- 117 Cosgrove, J. F., Bastian, R. P., Morrison, G. H.
Determination of traces of mixed halides by activation analysis.
Anal. Chem., **30**, 1872-1874 (1958).
(ENGLISH). RESEARCH LABORATORIES, SYLVANIA ELECTRIC PRODUCTS INC., BAYSIDE, N.Y.
- 118 Curie, I.
Detection and analysis of carbon in steel by induced radioactivity
J. Phys. Radium, **13**, 497-498 (1952).
(FRENCH). LABORATOIRE CURIE DE L'INSTITUT DU RADIUM DE PARIS, PARIS, FRANCE.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 119 Curie, I.
Detection and determination of carbon in steel by the use of artificial radioactivity.
Bull. Soc. Chim. France, C94–C97 (1953).
 (FRENCH). LABORATOIRE CURIE DE L'INSTITUT DU RADIUM DE PARIS, PARIS, FRANCE. (FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). INSTITUT INTERUNIVERSITAIRE DES SCIENCES NUCLEAIRES, CENTRE DE LA FACULTE POLYTECHNIQUE DE MONS, BELGIQUE.
- 120 Curie, I., Faraggi, H.
Autoradiography with neutrons. The determination of uranium and thorium concentrations in minerals.
Compt. Rend., **232**, 959–961 (1951).
 (FRENCH). LABORATOIRE CURIE DE L'INSTITUT DU RADIUM DE PARIS, PARIS, FRANCE.
- 121 Curran, S. C.
The age of the earth and mineral deposits.
Atomics, **3**, 5–13, 19 (1952).
 (ENGLISH). THE UNIVERSITY OF GLASGOW, SCOTLAND.
- 122 Curran, S. C.
The determination of geological age by means of radioactivity.
Quarterly Reviews (London), **7**, 1–18 (1953).
 (ENGLISH). DEPT. OF PHYSICS, UNIV. OF GLASGOW, SCOTLAND.
- 123 Curtis, H. J., Teresi, J. D.
Activity in tissues induced by slow-neutron bombardment.
 AECD-2872, 10p. (February 25, 1946).
 (ENGLISH). CLINTON LABORATORIES, OAK RIDGE, TENNESSEE.
- 124 Dale, B. McS.
A procedure for the determination of arsenic, gold, and cobalt in biological tissues.
Dissertation Abstracts, **20**, 472–473 (1959).
 (ENGLISH). OHIO STATE UNIVERSITY, COLUMBUS, OHIO.
- 125 Danguy, L., Quivy, R.
Continuous measurement of a neutron flux by activation of circulating solutions.
Intern. J. Appl. Radiation Isotopes, **5**, 135–140 (1959).
 (FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). INSTITUT INTERUNIVERSITAIRE DES SCIENCES NUCLEAIRES, CENTRE DE LA FACULTE POLYTECHNIQUE DE MONS, BELGIQUE.
- 126 Daudel, R.
Qualitative and quantitative analysis by means of radioactive elements.
Compt. Rend., **218**, 234–236 (1944).
 (FRENCH). INSTITUT DU RADIUM, PARIS, FRANCE.
- 127 Daudel, P.
Radioactivity in the service of chemical analysis.
Anal. Chim. Acta, **5**, 426–444 (1951).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). INSTITUT DU RADIUM, PARIS, FRANCE.
- 128 Daudel, P.
The use of radioactive indicators in organic analysis.
Chim. Anal., **40**, 325–331 (1958).
 (FRENCH). CHARGEE DE RECHERCHES AU C.N.R.S.
- 129 De, A. K.
Activation analysis.
J. Sci. and Ind. Res., **16A**, 337–339 (1957).
 (ENGLISH). DEPT. OF CHEMISTRY, COLLEGE OF ARTS AND SCIENCE, JADAVPUR UNIV., CALCUTTA, INDIA.
- 130 De, A. K., Meinke, W. W.
Activation analysis with an antimony-beryllium neutron source.
Anal. Chem., **30**, 1474–1482 (1958).
 (ENGLISH). DEPT. OF CHEM., UNIV. OF MICHIGAN, ANN ARBOR, MICH.
- 131 Anders, O. U., Briden, D. W.
Trace oxygen determination in cesium metal and the problem of recoils from the atmosphere during fast-neutron activations.
Anal. Chem., **37**, 530–533 (1965).
 (ENGLISH). RADIOCHEMISTRY RESEARCH LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICH.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 132 DeHaan, A.
Activation analysis for industry.
Am. Soc. Testing Materials Spec. Tech. Publ., **215**, 54–61 (1958).
 (ENGLISH). TRACERLAB INC., RICHMOND, CALIF.
- 133 Delbecq, C. J., Glendenin, L. E., Yuster, P. H.
Determination of thallium by radioactivation. Application to potassium iodide.
Anal. Chem., **25**, 350–351 (1953).
 (ENGLISH). CHEMISTRY DEPT., ARGONNE NATIONAL LAB., CHICAGO, ILL.
- 134 Dewar, W. A., Lenihan, J. M. A.
A case of chronic arsenical poisoning examination of tissue samples by activation analysis.
Scot. Med. J., **1**, 236–238 (1956).
 (ENGLISH). DEPT. OF DERMATOLOGY, STOBHILL GENERAL HOSPITAL AND REGIONAL PHYSICS DEPT., GLASGOW.
- 135 Doppel, R., Doppel, K.
Extension of the limit of sensitivity of spectral analysis of trace elements by means of the analysis of nuclear physical emission.
Physik. Z., **44**, 261–268 (1943).
 (GERMAN). GERMANY.
- 136 Druyan, R., Mitchell, T. G., King, E. R.
Neutron activation analysis in the determination of bone sodium.
J. Lab. and Clin. Med., **52**, 304–308 (1958).
 (ENGLISH). NUCLEAR MEDICINE BRANCH, DEPT. OF RADIOLOGY, USNH, BETHESDA, MD.
- 137 Matsumoto, W. Y.
The determination of thorium isotopic ratios by radiochemical methods.
 HW-SA-2208, 21p. (1961).
 (ENGLISH). GEN. ELEC. CO., HANFORD ATOMIC PRODUCTS OPERATION, RICHLAND, WASH.
- 138 Wolfe, R., Dunn, R. W., Tobias, C. A.
Activation trace analysis.
 UCRL-480, 37–50, 17 figures (November 1949).
 (ENGLISH). UNIVERSITY OF CALIFORNIA RADIATION LABORATORY, BERKELEY, CALIF.
- 139 Ross, A. M.
The identification and determination of trace amounts of rare earths in graphite by neutron activation.
 HW-14337, 29p. (September 1, 1949).
 (ENGLISH). HANFORD WORKS, RICHLAND, WASH.
- 140 Societa Ricerche Impianti Nucleari
Determination of trace-elements in iron samples by neutron-activation techniques.
 EURAEC-1273, 54p. (November 1964).
 (ENGLISH). SOCIETA RICERCHE IMPIANTI NUCLEARI, MILAN, ITALY.
- 141 Eastwood, T. A.
The sensitivity of the radioactivation method for the determination of trace impurities in highly refined metals.
 CI-193, 4p. (August 12, 1952).
 (ENGLISH). ATOMIC ENERGY OF CANADA LTD., RESEARCH DIVISION, CHALK RIVER, ONTARIO, CANADA.
- 142 Ebert, K. H., Konig, H., Wanke, H.
A new method of determination for very small amounts of uranium and its application to stone meteorites.
Z. Naturforsch., **12A**, 763–765 (1957).
 (GERMAN). AUS DEM MAX-PLANCK-INSTITUT FUR CHEMIE, MAINZ, GERMANY.
- 143 Ebert, K. H., Hernegger, F., Konig, H., Wanke, H.
The Breitscheid Meteorite – IV. Radiochemical separations. C-Uranium.
Geochim. Cosmochim. Acta, **17**, 349–350 (1959).
 (GERMAN). INSTITUT FUR CHEMISCHE

ACTIVATION ANALYSIS – ACCESSION NUMBERS

TECHNOLOGIE DER TECHNISCHEN
HOCHSCHULE, MUNCHEN, GERMANY.

- 144 Edwards, L. C.
Autoradiography by neutron activation the cellular distribution of boron-10 in the transplanted mouse brain tumour.
Intern. J. Appl. Rad. and Isotopes, **1**, 184–190 (1956).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DEPT. OF NEUROSURGERY, MASSACHUSETTS GENERAL HOSPITAL.
- 145 Ehmman, W. D.
Some heavy element meteoritic abundances by use of activation analysis.
XVIIIth International Congress of Pure and Applied Chemistry, Montreal, Canada, 1–16 (August 8, 1961).
(ENGLISH) DEPT. OF CHEMISTRY, UNIV. OF KENTUCKY, LEXINGTON, KENTUCKY.
- 146 Ehmman, W. D., Huizenga, J. R.
Bismuth, thallium and mercury in stone meteorites by activation analysis.
Geochim. Cosmochim. Acta, **17**, 125–135 (1959).
(ENGLISH). ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 147 Eichholz, G. G.
Activation assaying for tantalum ores.
Nucleonics, **10**, No. 12, 58–61 (1952).
(ENGLISH). RADIOACTIVITY DIVISION, DEPT. OF MINES AND TECHNICAL SURVEYS, OTTAWA, CANADA.
- 148 Erion, W. E., Mott, W. E., Shedlovsky, J. P.
Determination of selenium content of elemental sulfur by neutron activation.
Trans. Am. Nucl. Soc., **3**, 252–254 (1960).
(ENGLISH). USA.
- 149 Erokhina, K. I., Lembert, I. K., Makasheva, I. E., Maslov, I. A., Obukhov, A. P.
The determination of micro-impurities in silicon from the gamma-spectra of their radioisotopes.
Zavodskaya Lab., **26**, No. 7, 821–827 (1960).
(RUSSIAN). RUSSIA.
- 150 Albert, P.
Radioactivation analysis.
Applications des Radioisotopes a l'Analyse Chimique, 168p., Gauthier Villars and CIE, Paris (1964).
(FRENCH). C.N.R.S., FRANCE.
- 151 Facchini, U., Orsoni, L.
A method for the determination of uranium content in minerals by using the fission of U²³⁵.
Nuovo Cimento, **6**, 241–254 (1949).
(ITALIAN) (ENGLISH SUMMARY). CENTRO INFORMAZIONI STUDI EXPERIENZE C.I.S.E., MILANO, ITALY.
- 152 Taylor, D.
Neutron irradiation and activation analysis.
Neutron Irradiation and Activation Analysis, 185p., D. Van Nostrand Co., Princeton, N.J. (1964).
(ENGLISH). PLESSEY CO. (U.K.) LTD., ENGLAND.
- 153 Hahn, R. L.
The recoil technique and its possible use in activation analysis.
Anal. Chem., **40**, No. 1, 219–221 (January 1968).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 154 Fergusson, A. G., Dewar, W. A., Smith, H.
Arsenic values in various skin diseases. Estimated by activation analysis.
A.M.A. Archives of Dermatology, **81**, 931–935 (1960).
(ENGLISH). DEPT. OF DERMATOLOGY, STOBHILL GENERAL HOSPITAL AND

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- DEPT. OF FORENSIC MEDICINE,
UNIVERSITY OF GLASGOW.
- 155 Anderson, J., Osborn, S. B.,
Tomlinson, R. W. S., Newton, D.,
Rundo, J., Salmon, L., Smith, J.
W.
**Neutron-activation analysis in man
in vivo. A new technique in
medical investigation.**
Lancet, **2**, 1201-1205 (December 5,
1964).
(ENGLISH). ENGLAND.
- 156 Texas A and M University
**An investigation of computer-coupled,
automatic activation analysis.
Annual report.**
TEES-2671-3, 147p. (January 1,
1964).
(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.
- 157 Fink, R. W.
**Some limitations on the use of
neutron activation analysis.**
ORO-165, 3p. (1957).
(ENGLISH). DEPT. OF CHEMISTRY,
UNIV. OF ARKANSAS, FAYETTEVILLE,
ARKANSAS.
- 158 Fireman, E. L., Schwarzer, D.
**Measurement of Li^6 , He^3 and H^3 in
meteorites and its relation to
cosmic radiation.**
Geochim. Cosmochim. Acta, **11**,
252-262 (1957).
(ENGLISH). BROOKHAVEN NATIONAL
LAB., UPTON, NEW YORK.
- 159 Fisher, C.
**Application of radioelements to
chemical analysis.**
CEA-523, 3p. (1956).
(FRENCH). CEN, SACLAY, FRANCE.
- 160 Fogelstrom-Fineman, I.,
Holm-Hansen, O., Tolbert, B. M.,
Calvin, M.
**A tracer study with O^{18} in
photosynthesis by activation
analysis.**
Intern. J. Appl. Radiation
- Isotopes*, **2**, 280-286 (1957).
(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). DEPT. OF
CHEMISTRY AND RADIATION LAB.,
UNIV. OF CALIFORNIA, BERKELEY,
CALIF.
- 161 Foster, L. M., Gaitanis, C. D.
**Determination of phosphorus in
aluminum and aluminum oxide by
radioactivation analysis.**
Anal. Chem., **27**, 1342-1344 (1955).
(ENGLISH). ALUMINUM RESEARCH
LABORATORIES, NEW KENSINGTON, PA.
- 162 Fouarge, J.
**Chemical analysis by neutron
activation.**
Ind. Chim. Belge, **24**, 143-154
(1959).
(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). CHEMISTRY DEPT.,
UNIV. OF MICHIGAN, ANN ARBOR,
MICH.
- 163 Freedman, M. S.
**Gold radioactivity in neutron
irradiated diamond.**
J. Chem. Phys., **20**, 1040 (1952).
(ENGLISH). ARGONNE NATIONAL LAB.,
CHICAGO, ILLINOIS.
- 164 Fukai, R., Meinke, W. W.
**Trace analysis of marine
organisms: A comparison of
activation analysis and
conventional methods.**
Limnology and Oceanography, **4**,
398-408 (1959).
(ENGLISH). DEPT. OF CHEMISTRY,
UNIV. OF MICHIGAN, ANN ARBOR,
MICHIGAN.
- 165 Fukai, R., Meinke, W. W.
**Some activation analyses of six
trace elements in marine
biological ashes.**
Nature, **184**, 815-816 (1959).
(ENGLISH). DEPT. OF CHEMISTRY,
UNIV. OF MICHIGAN, ANN ARBOR,
MICH.
- 166 Gaittet, J.
Contribution to the systematic

ACTIVATION ANALYSIS—ACCESSION NUMBERS

analysis of high purity iron and aluminum by activation with neutrons.

Thesis, Serie A, No. 884, No. d'Ordre 908, 1219-1271 (1960).

(FRENCH). FACULTE DES SCIENCES DE L UNIVERSITE DE PARIS, FRANCE.

167 Gaittet, J., Albert, P.

Systematic analysis of impurities in zone refined aluminum and iron by irradiation in the atomic pile.

Compt. Rend., **247**, 1861-1863 (1958).

(FRENCH). FRANCE.

168 Gatrousis, C.

Neutron activation analysis.

Applied Gamma Ray Spectrometry, Chapter IV, Crouthamel, C.E.

(Ed.), Pergamon Press, New York (1960).

(ENGLISH). USA.

169 Gaudin, A. M., Dasher, J.,

Pannell, J. H., Freyberger, W. L.

Use of an induced nuclear reaction for the concentration of beryl.

Trans. AIME, **187**, 495-498 (1950).

(ENGLISH). USA.

170 Gaudin, A. M., Pannell, J. H.

Determination of beryllium by photodisintegration.

Anal. Chem., **23**, 1261-1265 (1951).

(ENGLISH). MINERAL ENGINEERING LABORATORY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

171 Gaudin, A. M., Senftle, F. E.,

Freyberger, W. L.

How induced radioactivity may help separate minerals.

Eng. Mining J., **153**, 95-99, 174, 176 (1952).

(ENGLISH). CAMBRIDGE, MASS.

172 Gauthier, P.

Determination of micro amounts of arsenic in pyrites by radiochemistry.

15th International Congress of

Pure and Applied Chemistry, Lisbon, Paper V-10 (France), 628-633 (1956).

(FRENCH). LABORATOIRE CENTRAL DES ETS. KUHLMANN, PARIS, FRANCE.

173 Gauthier, P.

The use of gamma-ray spectrometry in chemical analysis.

Acta Electronica, **3**, 295-305 (1959).

(FRENCH). LABORATOIRES DE LA SOCIETE KUHLMANN, LEVALLOIS, FRANCE.

174 Gebauhr, W., Martin, J.

Estimation of trace impurities in high-purity phosphorus by activation analysis.

Intern. J. Appl. Rad. and Isotopes, **4**, 173-178 (1959).

(GERMAN) (ENGLISH, FRENCH AND RUSSIAN SUMMARIES).

FORSCHUNGLABORATORIUM DER SIEMENS-SCHUCKERTWERKE AG, ERLANGEN, GERMANY.

175 Tomnovec, F. M.

Soil analysis by neutron activation.

USNRDL-TR-396, 11p. (28 January 1960).

(ENGLISH). USNRDL, SAN FRANCISCO, CALIF.

176 Getoff, N.

Radiometric analysis of hafnium in zirconium.

Atompraxis, **5**, 472-474 (1959).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). GERMANY.

177 Gibbons, D., Loveridge, B. A.,

Millett, R. J.

Radioactivation analysis. A bibliography.

AERE I/R 2208, 37p. (1957).

(ENGLISH). UKAEA RESEARCH GROUP, HARWELL, BERKSHIRE, ENGLAND.

178 Gibbons, D.

The determination of gold in biological materials by neutron activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Intern. J. Appl. Rad. and Isotopes*, **4**, 45-49 (1958).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). ISOTOPE DIVISION, AERE, HARWELL, ENGLAND.
- 179 Gibbons, D., Simpson, H.
Determination of tantalum in high-tantalum ferro-alloys.
Pure and Applied Chemistry, **1**, 135-137 (1960).
(ENGLISH) (FRENCH SUMMARY). ISOTOPE AND RESEARCH DIVISION, AERE, HARWELL, ENGLAND.
- 180 Gibbons, D.
The determination of sub-microgram amounts of cadmium in super-pure zinc by neutron activation analysis.
Proceedings International Symposium on Microchemistry 1958, 332-335, Pergamon Press, London (1960).
(ENGLISH). UK AERE, HARWELL, ENGLAND.
- 181 Gill, R. A.
Proton activation analysis in the determination of submicrogram amounts of boron in silicon.
AERE C/R 2758, 45p. (1958).
(ENGLISH). UK AERE, HARWELL, BERKSHIRE, ENGLAND.
- 183 Ruch, R. R., Guinn, V. P., Pinker, R. H.
Detection of gunpowder residues by neutron activation.
Nucl. Sci. and Eng., **20**, 381-385 (1964).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 184 Gold, R.
Beryllium-hazard detection using polonium-210 alphas.
Nucleonics, **15**, No. 11, 114, 117-118 (1957).
(ENGLISH). ARMOUR RESEARCH FOUNDATION OF THE ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS.
- 185 Gold, R., Stone, C. A.
Detection of air-borne beryllium dust. Final report covering the period from May 1955 to February 1957.
AECU-3505, 76p. (April 25, 1957).
(ENGLISH). ARMOUR RESEARCH FOUNDATION, ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS.
- 186 Goldberg, E. D., Brown, H.
Radiometric determination of gold and rhenium.
Anal. Chem., **22**, 308-311 (1950).
(ENGLISH). INSTITUTE FOR NUCLEAR STUDIES, UNIV. OF CHICAGO AND ARGONNE NATIONAL LABORATORY, CHICAGO, ILL.
- 187 Goldberg, E. D., Uchiyama, A., Brown, H.
The distribution of nickel, cobalt, gallium, palladium and gold in iron meteorites.
Geochim. Cosmochim. Acta, **2**, 1-25 (1951).
(ENGLISH). INSTITUTE FOR NUCLEAR STUDIES, UNIV. OF CHICAGO.
- 188 Goldschmidt, B., Djourkovitch, O.
Chemical analysis by artificial radioactivity. Determination of dysprosium in fractions of yttrium earths.
Bull. Soc. Chim. France, **6**, 718-725 (1939).
(FRENCH). INSTITUT DU RADIUM, LABORATOIRE CURIE, FRANCE.
- 189 Goodman, C., Thompson, G. A.
Autoradiography of minerals.
American Mineralogist, **28**, 456-467 (1943).
(ENGLISH). MIT, CAMBRIDGE, MASS.
- 190 Gordon, C. L.
Nucleonics.
Anal. Chem., **23**, 81-86 (1951).
(ENGLISH). NBS, WASHINGTON, D.C.
- 191 Gordon, C. L.
Nucleonics.
Anal. Chem., **26**, 176-181 (1954).
(ENGLISH). NBS, WASHINGTON, D.C.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 192 Gorsuch, T. T.
Radiochemical investigations on the recovery for analysis of trace elements in organic and biological materials.
Analyst, **84**, 135–173 (1959).
 (ENGLISH). RADIOCHEMICAL CENTRE, WHITE LION ROAD, AMERSHAM, BUCKS, ENGLAND.
 tantalum and niobium, particularly by the electrolytic method. I. Determination of Ta and Nb by means of the radioisotopes of these elements. *Helv. Chim. Acta*, **43**, 848–852 (1960).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE ET D'ELECTROCHIMIE TECHNIQUES DE L'UNIVERSITE DE GENEVE.
- 193 Goto, H., Amano, H., Inoue, Y.
Determination of silver and arsenic in high-purity metallic silicon by radioactivation method.
J. Japan Inst. Metals, **24**, 85–88 (1960).
 (JAPANESE). (ENGLISH SUMMARY). TOHOKU UNIV. RES. INST. FOR IRON, STEEL AND OTHER METALS, JAPAN.
- 194 Gotte, H., Hattemer, J. A.
Radioactivation analysis determination of arsenic in teeth.
Z. Naturforsch., **10B**, 343–345 (1955).
 (GERMAN). MAX-PLANCK-INSTITUT FUR CHEMIE UND DER UNIVERSITATSZAHNKLINIK MAINZ, GERMANY.
- 195 Gotte, H.
Application of radioactivity in analytical chemistry.
Mikrochim. Acta, 27–42 (1956).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). MAX-PLANCK-INSTITUT FUR CHEMIE, MAINZ, GERMANY.
- 196 Born, H. J., Aumann, D. C.
Activation analytical determination of lithium with the aid of the chain reactions lithium-6 (n, alpha)-helium-3 and oxygen-16 (t, n) fluorine-18.
Naturwissenschaften, **51**, 159–160 (1964).
 (GERMAN). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE, MUNCHEN, GERMANY.
- 197 Grandjean, P., Lerch, P., Monnier, R.
Studies on the production, separation and purification of
- 198 Griffon, H., Barbaud, J.
The use in toxicology of the radioactivity induced in arsenic for the detection and study of the distribution of this element in hair.
Compt. Rend., **232**, 1455–1457 (1951).
 (FRENCH). FRANCE.
- 199 Vogt, J. R., Ehmann, W. D.
An automated procedure for the determination of oxygen using fast neutron activation analysis: Oxygen in stony meteorites.
Radiochim. Acta, **4**, 24–28 (1965).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 200 Grillot, E.
Sensitive method of detection and microdetermination of copper in solids at different stages in the preparation of luminescent substances.
Compt. Rend., **234**, 1775–1777 (1952).
 (FRENCH). FRANCE.
- 201 Ricci, E., Hahn, R. L.
Rapid calculation of sensitivities, interferences, and optimum bombarding energies in helium-3 activation analysis.
Anal. Chem., **40**, No. 1, 54–60 (1968).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 202 Grillot, E.
Radiochemical microdetermination of active impurities in luminescent mineral crystals.
15th International Congress of Pure and Applied Chemistry, Lisbon, Paper V-11 (France), 634-642 (1956).
 (FRENCH). LABORATOIRE DE LUMINESCENCE, FACULTE DES SCIENCES DE PARIS, PARIS, FRANCE.
- 203 Gueben, G., Govaerts, J.
The method of activation analysis using neutrons from a Ra-Be source.
Institut Interuniversitaire des Sciences Nucleaires, Monographie (Brussels), No. 2, 131p. (1957).
 (FRENCH). BELGIUM.
- 204 Dresser Industries Inc.
Equipment for activation analysis of ocean bottom cores (engineering materials).
 CAPE-1010, 46 units.
 (ENGLISH). DRESSER RESEARCH, TULSA, OKLA.
- 205 Guinn, V. P., Wagner, C. D.
Instrumental neutron activation analysis.
Anal. Chem., **32**, 317-323 (1960).
 (ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 206 Haigh, C. P.
A photoneutron method of measuring deuterium.
Radioisotope Conference Oxford, 1954, Vol. II, 101-110, Butterworths, London (1954).
 (ENGLISH). BARROW HOSPITAL, BRISTOL, ENGLAND.
- 207 Haigh, C. P.
An analysis for deuterium based on the photoneutron effect.
Nature, **172**, 359 (1953).
 (ENGLISH). RESEARCH DEPT., BRISTOL MENTAL HOSPITALS, BARROW HOSPITAL, BARROW GURNEY, BRISTOL, ENGLAND.
- 208 Hall, T. A.
Chemical element analysis of radioactive mixtures in biological materials.
Nucleonics, **12**, No. 3, 34-35 (1954).
 (ENGLISH). SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, NEW YORK, N.Y.
- 209 Hamaguchi, H., Reed, G. W., Turkevich, A.
Uranium and barium in stone meteorites.
Geochim. Cosmochim. Acta, **12**, 337-347 (1957).
 (ENGLISH). ENRICO FERMI INSTITUTE FOR NUCLEAR STUDIES, UNIV. OF CHICAGO, CHICAGO, ILLINOIS.
- 210 Jaskolska, H., Minczewski, J.
Determination of gallium and indium by the neutron activation method.
Acta. Chim. Hung., **32**, No. 1, 9-18 (1962).
 (ENGLISH) (GERMAN AND RUSSIAN SUMMARIES). DEPARTMENT OF ANALYTICAL CHEMISTRY, POLISH ACADEMY OF SCIENCES, INSTITUTE OF NUCLEAR RESEARCH, WARSAW.
- 211 Hamaguchi, H., Hashimoto, J., Hosohara, K., Narusawa, Y.
A new application of neutron activation analysis to the polarography of holmium.
Bull. Chem. Soc. Japan, **33**, 562-563 (1960).
 (ENGLISH). DEPT. OF CHEMISTRY, FACULTY OF SCIENCE, TOKYO UNIV. OF EDUCATION, BUNKYO-KU, TOKYO, JAPAN.
- 212 Setser, J. L.
Determination of zirconium and hafnium in meteorites, sediments, and terrestrial materials by neutron activation analysis.
 TID-19179, 81p. (1963).
 (ENGLISH). KENTUCKY UNIVERSITY, LEXINGTON, KENTUCKY.
- 213 Happ, W. W., Horwood, J. L.
Assay of uranium-bearing ores by fission analysis.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Science*, **115**, 622–623 (1952).
(ENGLISH). RADIOACTIVITY DIV.,
MINES BRANCH, DEPT. OF MINES AND
TECHNICAL SURVEYS, OTTAWA,
CANADA.
- 214 Harrison, G. E., Raymond, W. H. A.
**The estimation of trace amounts of
barium or strontium in biological
material by activation analysis.**
J. Nuclear Energy, **1**, 290–298
(1955).
(ENGLISH). MRC RADIOBIOLOGICAL
RESEARCH UNIT, AERE, HARWELL,
BERKS, ENGLAND.
- 215 Kamemoto, Y., Yamagishi, S.
**Determination of impurities in
bismuth metal by neutron
activation.**
Nippon Kagaku Zasshi, **82**,
1653–1656 (1961).
(JAPANESE) (ENGLISH SUMMARY).
DIVISION OF CHEMISTRY, JAPAN
ATOMIC ENERGY RESEARCH INSTITUTE,
NAKAGUN, IBARAKI, JAPAN.
- 216 Thompson, T. J., Rasmussen, N. C.,
Schwartz, D.
**Neutron dosimetry, spectrometry,
and neutron activation analysis.**
AD-274320, 52p. (October 1961).
(ENGLISH). MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.
- 217 Hernegger, F., Wanke, H.
**On the uranium content of stony
meteorites and their ages.**
Z. Naturforsch., **12A**, 759–762
(1957).
(GERMAN). MAX-PLANCK-INST-
ITUT FUR CHEMIE, MAINZ, GERMANY.
- 218 Herr, W.
Activation analysis.
Angew. Chem., **64**, 679–685 (1952).
(GERMAN). MAX-PLANCK-INST-
ITUT FUR CHEMIE, MAINZ, GERMANY.
- 219 Herr, W.
**A simple radiometric procedure for
the determination of the isotopic
composition of lithium salts.**
- Z. Naturforsch.*, **8A**, 305–307
(1953).
(GERMAN). MAX-PLANCK-INST-
ITUT FUR CHEMIE, MAINZ, GERMANY.
- 221 Morris, D. F. C., Killick, R. A.
**The determination of traces of
osmium and iridium in samples of
palladium and platinum by
neutron-activation analysis.**
Talanta, **8**, 129–137 (1961).
(ENGLISH). BRUNEL COLL. OF
TECH., LONDON, ENGLAND.
- 222 Herr, W., Merz, E.
**A new method for age determination
of minerals containing rhenium,
by means of neutron activation.**
Z. Naturforsch., **10A**, 613–615
(1955).
(GERMAN). MAX-PLANCK-
INSTITUT FUR CHEMIE, MAINZ,
GERMANY.
- 223 Herr, W.
**Trace analysis with radioactive
isotopes. Activation analysis of
phosphorus in iron.**
Arch. Eisenhüttenwesen, **26**,
523–526 (1955).
(GERMAN). MAX-PLANCK INSTITUT FUR
CHEMIE, MAINZ, GERMANY.
- 224 Herr, W.
**Determination of the beta active
elements Re, Tc and Lu and their
decay products in minerals.**
*15th International Congress of
Pure and Applied Chemistry,
Lisbon, Paper V-15 (German)*, 1p.
(1956).
(GERMAN). MAX-PLANCK INSTITUT FUR
CHEMIE, MAINZ, GERMANY.
- 225 Herr, W., Merz, E.
**The natural radioactivity of
lutecium-176 and its possible
application in geological age
determination.**
*Radioisotopes in Scientific
Research*, **2**, 571–580 (1958).
(ENGLISH) (FRENCH, SPANISH AND
RUSSIAN SUMMARIES). MAX PLANCK

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- INSTITUTE FOR CHEMISTRY, MAINZ,
GERMANY.
- 226 Herr, W., Hoffmeister, W.,
Langhoff, J.
**The determination of rhenium and
osmium in iron meteorites by
neutron activation.**
Z. Naturforsch., **15A**, 99–102
(1960).
(GERMAN). MAX-PLANCK-
INSTITUT FÜR CHEMIE (OTTO-HAHN
INSTITUT), MAINZ, GERMANY.
- 227 Hevesy, G., Levi, H.
**The action of neutrons on the rare
earth elements.**
*Det. Kgl. Danske Videnskabernes
Selskab. Matematisk-Fysiske
Meddelelser.*, **14**, No. 5, 3–34
(1936).
(ENGLISH). INSTITUTE OF
THEORETICAL PHYSICS, UNIV. OF
COPENHAGEN.
- 228 Hevesy, G., Levi, H.
**The radioactivity of europium and
its analytical application.**
*Det Kgl. Danske Videnskabernes
Selskab. Matematisk-Fysiske
Meddelelser.*, **15**, No. 11, 14–18
(1938).
(ENGLISH). INSTITUTE OF
THEORETICAL PHYSICS, COPENHAGEN.
- 229 Hoste, J., Van Den Berghe, H.
**Determination of micro-amounts of
indium in zinc and in gallium by
radioactivation.**
Mikrochim. Acta, 797–803 (1956).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). LABORATORY FOR
ANALYTICAL CHEMISTRY, UNIVERSITY
OF GHENT, BELGIUM.
- 230 Huariga, M.
**Determination of chromium,
vanadium and tungsten by
activation analysis using
low-level neutron sources.**
Nature, **177**, 85 (1956).
(ENGLISH). INSTITUTE OF NUCLEAR
STUDIES, UNIV. OF LIEGE.
- 231 Hudgens, J. E., Cali, J. P.
**Determination of antimony by
radioactivation.**
Anal. Chem., **24**, 171–174 (1952).
(ENGLISH). US AEC, NEW BRUNSWICK,
N.J.
- 232 Hudgens, J. E., Dabagian, H. J.
**Radioactivation determination of
zirconium in Zr-Hf mixtures.**
Nucleonics, **10**, No. 5, 25–27
(1952).
(ENGLISH). US AEC, NEW BRUNSWICK,
N.J.
- 233 Hudgens, J. E., Meyer, R. C.
**Determination of uranium 235 by
neutron activation.**
NBL-126, 21p. (1956).
(ENGLISH). US AEC, NEW BRUNSWICK,
N.J.
- 234 Hudgens, J. E., Nelson, L. C.
**Determination of small
concentrations of indium by
radioactivation.**
Anal. Chem., **24**, 1472–1475 (1952).
(ENGLISH). US AEC, NEW BRUNSWICK,
N.J.
- 235 Hummel, R. W.
**Determination of gold in sea water
by radioactivation analysis.**
Analyst, **82**, 483–488 (1957).
(ENGLISH). AERE, HARWELL, DIDCOT,
BERKS, ENGLAND.
- 236 Hummel, R. W., Smales, A. A.
**Determination of strontium in sea
water by using both radioactive
and stable isotopes.**
Analyst, **81**, 110–113 (1956).
(ENGLISH). AERE, HARWELL, DIDCOT,
BERKS, ENGLAND.
- 237 Hutchinson, W. P.
**Neutron activation analysis of
blood.**
AERE-MED/R 2317, 4p. (1960).
(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.
- 238 Iredale, P.
**An impurity analysis of aluminium
by radioactivation and**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- scintillation spectrometry.
AERE-EL/M.96, 8p. (1956).
(ENGLISH). AERE, HARWELL,
ENGLAND.
- 239 Irving, H., Smit, J. Van R.,
Salmon, L.
**Determination of indium in
cylindrite by neutron-activation
analysis and other methods.**
Analyst, **82**, 549-558 (1957).
(ENGLISH). INORGANIC CHEMISTRY
LAB., UNIV. OF OXFORD, OXFORD,
ENGLAND.
- 240 Irving, H., Smales, A. A., Smit,
J. Van R.
**The determination of indium in
rocks and minerals by
radioactivation.**
*15th International Congress of
Pure and Applied Chemistry,
Lisbon, Paper V-16 (Portugal),
1p.* (1956).
(ENGLISH). INORGANIC CHEMISTRY
LAB., UNIV. OF OXFORD, OXFORD,
ENGLAND.
- 241 Yakovlev, Y. V.
**Quantitative determination of
impurities in high purity metals
through radioactivation analysis.
I. Introduction.**
*International Conference on the
Peaceful Uses of Atomic Energy,*
15, 54-59 (1955).
(ENGLISH TRANSLATION). RUSSIA.
- 242 James, J. A., Richards, D. H.
**Radioactivation analysis of
arsenic in tungsten.**
Anal. Chim. Acta, **15**, 118-121
(1956).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). THE BRITISH
THOMSON-HOUSTON CO. LTD., RUGBY,
ENGLAND.
- 243 James, J. A., Richards, D. H.
**Radioactivation analysis of
phosphorus in iodine.**
Nature, **177**, 1230 (1956).
(ENGLISH). RESEARCH LAB., BRITISH
THOMSON-HOUSTON CO., LTD., RUGBY,
ENGLAND.
- 244 James, J. A., Richards, D. H.
**Radioactivation analysis of
phosphorus in silicon.**
Nature, **176**, 1026 (1955).
(ENGLISH). RESEARCH LAB., BRITISH
THOMSON-HOUSTON CO., LTD., RUGBY,
ENGLAND.
- 245 James, J. A., Richards, D. H.
**Radioactivation analysis of
arsenic in silicon.**
Nature, **175**, 769-770 (1955).
(ENGLISH). RESEARCH LAB., BRITISH
THOMSON-HOUSTON CO., LTD., RUGBY,
ENGLAND.
- 246 James, J. A., Richards, D. H.
Radiochemical analysis of silicon.
J. Electronics and Control, **3**,
500-506 (1957).
(ENGLISH). RESEARCH LAB., THE
BRITISH THOMSON-HOUSTON CO. LTD.,
RUGBY, ENGLAND.
- 248 Jaskolska, H., Wodkiewicz, L.
**Determination of trace amounts of
arsenic in germanium by means of
neutron activation.**
Chemia Analityczna, **6**, 161-165
(1961).
(POLISH) (ENGLISH SUMMARY). DEPT.
OF ANALYTICAL CHEM., INSTITUTE OF
NUCLEAR RESEARCH, WARSZAWA.
- 249 Jaskolska, H., Minczewski, J.
**Neutron activation method of
gallium and indium determination.**
Chemia Analityczna, **6**, 149-159
(1961).
(POLISH) (ENGLISH SUMMARY). DEPT.
OF ANALYTICAL CHEM., INSTITUTE OF
NUCLEAR RESEARCH, POLISH ACADEMY
OF SCIENCES, WARSZAWA.
- 250 Jenkins, E. N.
**Determination of small quantities
of thorium by radioactivation.**
Analyst, **80**, 301-313 (1955).
(ENGLISH). ANALYTICAL CHEMISTRY
GROUP, AERE, HARWELL, DIDCOT,
BERKS, ENGLAND.
- 251 Jenkins, E. N., Smales, A. A.
Radioactivation analysis.
Quart. Rev. (London), **10**, 83-107

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (1956).
(ENGLISH). AERE, HARWELL, NR.
DIDCOT, BERKS, ENGLAND.
- 252 Jervis, R. E., Mackintosh, W. D.
Activation analyses of interest to atomic-energy programs.
Progress in Nuclear Energy, Series IX, Vol. 1, 18–32, Pergamon Press (1959).
(ENGLISH). AEC LTD., CHALK RIVER, ONTARIO.
- 253 Metzger, A. E.
Some calculations bearing on the use of neutron activation for remote compositional analysis.
NASA-N-62 16383(K), Technical Report No. 32-286, 8p. (August 5, 1962).
(ENGLISH). JET PROPULSION LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.
- 254 Kaiser, D. G., Meinke, W. W.
Activation-analysis of trace cobalt in tissue using 10.5-minute 60m-cobalt.
Talanta, 3, 255–260 (1960).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 255 Kant, A., Cali, J. P., Thompson, H. D.
Determination of impurities in silicon by neutron activation analysis.
Anal. Chem., 28, 1867–1871 (1956).
(ENGLISH). AIR RESEARCH AND DEVELOPMENT COMMAND, AIR FORCE CAMBRIDGE RESEARCH CENTER, BEDFORD, MASS.
- 256 Kaplan, L., Wilzbach, K. E.
Lithium isotope determination by neutron activation.
Anal. Chem., 26, 1797–1798 (1954).
(ENGLISH). CHEMISTRY DIV., ARGONNE NATIONAL LAB., LEMONT, ILL.
- 257 Kemp, D. M., Smales, A. A.
Neutron activation results for vanadium and scandium in G-1 and W-1.
Geochim. Cosmochim. Acta, 18, 149–150 (1960).
(ENGLISH). AERE, HARWELL, ENGLAND.
- 258 Kettle, B. H., Boyd, G. E.
Heavy rare earth separations with amberlite IR-1 at room temperatures.
J. Am. Chem. Soc., 69, 2805–2806 (1947).
(ENGLISH). CLINTON NATIONAL LAB., OAK RIDGE, TENN.
- 259 Keynes, R. D., Lewis, P. R.
Determination of the ionic exchange during nervous activity by activation analysis.
Nature, 165, 809–810 (1950).
(ENGLISH). PHYSIOLOGICAL LAB., UNIV. OF CAMBRIDGE.
- 260 Keynes, R. D., Lewis, P. R.
The sodium and potassium content of cephalopod nerve fibres.
J. Physiol. (London), 114, 151–182 (1951).
(ENGLISH). LABORATORY OF THE MARINE BIOLOGICAL ASSOCIATION, PLYMOUTH, AND THE PHYSIOLOGICAL LABORATORY, UNIV. OF CAMBRIDGE.
- 261 Kienberger, C. A., Greene, R. E., Voss, F. S.
Determination of lithium 6 by fission counting.
K-1042, 12p. (1953).
(ENGLISH). UNION CARBIDE AND CARBON CORPORATION, OAK RIDGE, TENNESSEE.
- 262 Killick, R. A., Morris, D. F. C.
The determination of traces of palladium in samples of platinum by neutron-activation analysis.
Talanta, 8, 601–604 (1961).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE OF TECHNOLOGY, LONDON, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 263 Koch, H. J., Smith, E. R., Shimp, N. F., Connor, J.
Analysis of trace elements in human tissues. I. Normal tissues.
Cancer, **9**, 499–511 (1956).
 (ENGLISH). SLOAN-KETTERING INSTITUTE FOR CHEMICAL RESEARCH, NEW YORK, N.Y.
- 264 Kohn, A.
Use of radioactive isotopes in the study of steels and industrial processes in metallurgy. Application to the study of segregations.
Rev. Metallurgie, **48**, 219–235 (1951).
 (FRENCH). INSTITUT DE RECHERCHES DE LA SIDERURGIE, FRANCE.
- 265 Kohn, A.
A radioactive technique for the determination of tantalum in ferroniobium alloys and niobium ores.
Compt. Rend., **236**, 1419–1421 (1953).
 (FRENCH). FRANCE.
- 266 Kohn, A.
A radioactive method for determining the amount of tantalum in ferroniobium alloys and minerals of niobium.
Chimie et Industrie, **71**, 69–77 (1954).
 (FRENCH). INGENIEUR A L INSTITUT DE RECHERCHES DE LA SIDERURGIE, FRANCE.
- 267 Kohn, H. W., Tompkins, E. R.
Activation analysis of the rare earths.
 ORNL-390, 14p. (1949).
 (ENGLISH). OAK RIDGE NATIONAL LAB., OAK RIDGE, TENN.
- 268 Konig, H., Wanke, H.
The Breitscheid meteorite—IV. Radiochemical separations. D. Potassium—argon.
Geochim. Cosmochim. Acta, **17**, 350–351 (1959).
 (GERMAN). MAX-PLANCK INSTITUT FUR CHEMIE, MAINZ, GERMANY.
- 269 Konig, H., Wanke, H.
The determination of uranium in stony meteorites by neutron activation using the xenon isotopes 133 and 135.
Z. Naturforsch., **14A**, 866–869 (1959).
 (GERMAN). MAX-PLANCK INSTITUT FUR CHEMIE (OTTO-HAHN INSTITUT), MAINZ, GERMANY.
- 270 Kulak, A. I.
Quantitative determination of micro impurities in antimony by neutron activation.
J. Anal. Chem. USSR, **12**, No. 6, 745–748 (1957).
 (ENGLISH TRANSLATION). THE D.I. MENDELEEV MOSCOW CHEMICO TECHNOLOGICAL INSTITUTE, RUSSIA.
- 271 Kusaka, Y.
Activation analysis of manganese in ferromanganese alloy using radium-beryllium neutron source.
Bull. Chem. Soc. Japan, **31**, 216–219 (1958).
 (ENGLISH). DEPT. OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIV., HIGASHINADA-KU, KOBE, JAPAN.
- 272 Kusaka, Y.
A radioactivation analysis of indium using a radium-beryllium neutron source. I. The determination of indium in zinc.
Nippon Kagaku Zasshi, **80**, 1419–1422 (1959).
 (JAPANESE). KONAN UNIVERSITY SCHOOL OF SCIENCE, DEPARTMENT OF CHEMISTRY, JAPAN.
- 273 Kuykendall, W. E., Mundkowsky, W. F., Moore, B. C., Smith, R. L., Hood, D. W., Mitchell, J. C., Roots, E. N., Wainerdi, R. E.
The applications of activation analysis for industrial purposes. Quarterly Progress Report No. 2, November 1, 1959.
 E 138–59, 14p. (1959).
 (ENGLISH). TEXAS ENGINEERING EXPERIMENT STATION, COLLEGE STATION, TEXAS.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 274 Laing, K. M., Emhiser, D. E.,
Fitzgerald, J. V., Jones, R. E.
**The location of sodium by nuclear
activation in glass-corroded tank
block refractories.**
J. Am. Ceram. Soc., **34**, 380–383
(1951).
(ENGLISH). GLASS DIVISION
RESEARCH LABORATORIES, PITTSBURGH
PLATE GLASS CO., CREIGHTON, PA.
- 275 Laing, K. M., Jones, R. E.,
Emhiser, D. E., Fitzgerald, J.
V., Bachman, G. S.
**Deuteron activation and
autoradiography as coupled
techniques in tracer experiments.**
Nucleonics, **9**, No. 4, 44–46
(1951).
(ENGLISH). GLASS DIVISION
RESEARCH LABORATORIES, PITTSBURGH
PLATE GLASS CO., CREIGHTON, PA.
- 276 Moses, A. J.
**Nuclear techniques in analytical
chemistry.**
*Nuclear Techniques in Analytical
Chemistry*, Vol. **20**, 147p., A
Pergamon Press Book,
International Series of
Monographs on Analytical
Chemistry, New York, The
MacMillan Company (1964).
(ENGLISH). BURBANK, CALIFORNIA.
- 277 Leddicotte, G. W.
**The method of activation analysis.
Nuclear analyses methods.**
Oak Ridge Master Analytical
Manual, Method No. 5 10100
(8–4–59).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 278 Leddicotte, G. W.
**Calculation of activation analysis
data. Nuclear analyses methods.**
Oak Ridge Master Analytical
Manual, Method No. 5 10123
(8–6–59).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 279 Leddicotte, G. W.
**Antimony, neutron activation
analysis (isotopic carrier)**
method. Nuclear analyses methods.
Oak Ridge Master Analytical
Manual, Method No. 5 11040
(8–10–59).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 280 Leddicotte, G. W.
**Types of neutron reactions.
Nuclear analyses methods.**
Oak Ridge Master Analytical
Manual, Method No. 5 10102
(2–2–56).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 281 Leddicotte, G. W.
Radioactivation analysis.
ORNL CF 60–11–124, 43p. (November
30, 1960).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 282 Mullins, W. T., Leddicotte, G. W.
**Nickel, neutron activation
analysis (isotopic-carrier)
method. Nuclear analyses methods.**
Oak Ridge Master Analytical
Manual, Method No. 5 11540
(7–31–59).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 283 Leddicotte, G. W.
**Neutron bombardment useful in
analysis of trace impurities.**
Chem. and Eng. News, **31**, 2678,
2680–2681 (June 29, 1953).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 284 Bowen, H. J. M., Cawse, P. A.
**The determination of selenium in
biological material by
radioactivation.**
Analyst, **88**, 721–726 (1963).
(ENGLISH). UK AEA, WANTAGE
RESEARCH LAB., WANTAGE, BERKS,
ENGLAND.
- 286 Leddicotte, G. W.
**Activation analysis—what can it
do for you?**
Nucleonics, **14**, No. 5, 46–47

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (1956).
(ENGLISH). ANALYTICAL CHEMISTRY
DIV., OAK RIDGE NATIONAL LAB.,
OAK RIDGE, TENN.
- 287 Leddicotte, G. W.
**Activation shows trace-metal
segregation.**
Nucleonics, 14, No. 5, 47 (1956).
(ENGLISH). ANALYTICAL CHEMISTRY
DIV., OAK RIDGE NATIONAL LAB.,
OAK RIDGE, TENN.
- 288 Leddicotte, G. W., Brooksbank, W.
A.
**The isotopic analysis of uranium
by neutron activation analysis.**
TID-7531, Part I, 71-77 (1957).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 289 Leddicotte, G. W., Mahlman, H. A.
**Determination of microgram and
submicrogram quantities of
thorium by neutron activation
analysis.**
*International Conference on the
Peaceful Uses of Atomic Energy*,
8, 250-253 (1955).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 290 Leddicotte, G. W., Moeller, D. W.
**Determination of trace elements in
water by neutron radioactivation
analysis.**
ORNL-CF 61-5-118, 32p. (May 29,
1961).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 291 Leddicotte, G. W., Mullins, W. T.,
Bate, L. C., Emery, J. F.
**The determination of trace
elements in reactor materials by
the methods of neutron activation
analysis.**
TID-7555, 192-215 (1958).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 292 Leddicotte, G. W., Mullins, W. T.,
Bate, L. C., Emery, J. F.,
Druschel, R. E., Brooksbank, W.
- A.
**The use of neutron activation
analysis in analytical chemistry.**
*Second United Nations
International Conference on the
Peaceful Uses of Atomic Energy*,
P/927, 478-485 (1958).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 293 Leddicotte, G. W., Reynolds, S. A.
**The determination of trace
elements by neutron
radioactivation analysis.**
ORNL CF 52-12-155, 11p. (December
18, 1952).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 294 Leddicotte, G. W., Reynolds, S. A.
**Activation analysis sensitivity of
detection of radioactive elements
produced by n-gamma reactions in
the ORNL pile.**
Preprint, 25p. (1952).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 295 Leddicotte, G. W., Reynolds, S. A.
**Activation analysis by means of
the Oak Ridge Reactor.**
AECD-2992, 10p. (1952).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 296 Leddicotte, G. W., Reynolds, S. A.
**Neutron activation analysis. A
useful analytical method for
determination of trace elements.**
AECD-3489, 25p. (January 2, 1953).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 297 Leddicotte, G. W., Reynolds, S. A.
**The determination of trace
elements by neutron
radioactivation analysis.**
ASTM Bulletin, 29-31 (February
1953).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 298 Leddicotte, G. W., Reynolds, S. A.
Neutron activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- ORNL CF-55-11-20, 15p. (November 2, 1955).
(ENGLISH). OAK RIDGE NATIONAL LAB., OAK RIDGE, TENN.
- 299 Atomics
Neutron activation analysis.
Atomics, 16, No. 4, 15-19
(July-August 1963).
(ENGLISH). USA.
- 300 Leddicotte, G. W., Reynolds, S. A.
Determination of the alkali metals by neutron activation analysis.
ORNL 1623, 14p. (February 25, 1954).
(ENGLISH). OAK RIDGE NATIONAL LAB., OAK RIDGE, TENN.
- 301 Leipunskaya, D. I., Gauer, Z. E., Flerov, G. N.
Neutron activation analysis of samples of rock and ore concentrates.
Soviet Atomic Energy, 6, 198-202 (1959).
(ENGLISH TRANSLATION). RUSSIA.
- 302 Leliaert, G.
Activation analysis. The determination of fast diffusion in quartz.
Studiecentrum voor Kernenergie, S.C.K., R.1737, 12p. (2 July 1959).
(DUTCH). BELGIUM.
- 303 Leliaert, G.
Note. Conference in Vienna 1-4 June 1959, in respect to activation analysis.
Studiecentrum voor Kernenergie, S.C.K., R.1736, 8p. (15 July 1959).
(DUTCH). BELGIUM.
- 304 Leliaert, G., Hoste, J., Eeckhaut, Z.
Activation analysis of tungsten in high alloy steels.
Talanta, 2, 115-123 (1959).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). LABORATORY OF ANALYTICAL CHEMISTRY, UNIV. OF GHENT, BELGIUM.
- 305 Leliaert, G., Hoste, J., Eeckhaut, J.
Activation analysis of vanadium in high alloy steels using manganese as internal standard.
Anal. Chim. Acta, 19, 100-107 (1958).
(ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, UNIV. OF GHENT, BELGIUM.
- 306 Leliaert, G., Hoste, J., Eeckhaut, Z.
Neutron activation analysis using an internal standard.
Nature, 182, 600 (1958).
(ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, UNIV. OF GHENT, BELGIUM.
- 307 Lenihan, J. M. A.
Radioactivation analysis.
Nature, 184, 951-952 (1959).
(ENGLISH). REGIONAL PHYSICS DEPT., WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, U.K.
- 308 Lenihan, J. M. A.
Radioactivation analysis in biochemistry and medicine.
Pure and Appl. Chem., 1, 81-97 (1960).
(ENGLISH). REGIONAL PHYSICS DEPT., WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, U.K.
- 309 Lenihan, J. M. A., Smith, H., Chalmers, J. G.
Arsenic in detergents.
Nature, 181, 1463-1464 (1958).
(ENGLISH). WESTERN REGIONAL HOSPITAL BOARD, GLASGOW.
- 310 Lenihan, J. M. A., Smith, H.
Clinical applications of activation analysis.
Second United Nations International Conference on the Peaceful Uses of Atomic Energy, 26, P/69, 238-241 (1958).
(ENGLISH). REGIONAL PHYSICS

ACTIVATION ANALYSIS—ACCESSION NUMBERS

DEPT., WESTERN REGIONAL HOSPITAL
BOARD, GLASGOW.

*13th Annual Meeting of the
American Nuclear Society, 12p.
(February 14, 1967).*

(ENGLISH). KAMAN NUCLEAR,
COLORADO SPRINGS, COLORADO.

311 Leveque, M. P.

Examples of activation analysis.
*International Conference on the
Peaceful Uses of Atomic Energy,*
15, 78–80 (1955).

(ENGLISH TRANSLATION). FRANCE.

317 Ljunggren, K., Westermark, T.

**A method for the detection of
mercury by radioactivation
analysis.**

Pure and Appl. Chem., **1**, 127–133
(1960).

(ENGLISH) (FRENCH SUMMARY). ROYAL
INSTITUTE OF TECHNOLOGY,
STOCKHOLM, SWEDEN.

312 Leveque, P.

**Use of gamma spectrography in
activation analysis.**

CEA No. 1249, 20p. (1959).

(FRENCH) (ENGLISH SUMMARY). CHEF
DE LA SECTION DES APPLICATIONS
DES RADIOELEMENTS, CEN, SACLAY,
FRANCE.

318 Ljunggren, K.

**Instrumental aids in activation
analysis.**

Svensk Kemisk Tidskrift, **70**,
219–225 (1958).

(SWEDISH). INSTITUTIONEN FOR
FYSIKALISK KEMI, KTH, STOCKHOLM.

313 Leveque, P., Goenvic, H.

**Determination of elements by
induced radioactivity of short
period.**

Bull. Soc. Chim. France, 1213–1216
(1955).

(FRENCH). SECTION D APPLICATIONS
DES RADIOELEMENTS C.E.N., SACLAY,
FRANCE.

319 Long, J. V. P.

**The estimation of tantalum in
mixtures by neutron activation
analysis.**

Analyst, **76**, 644–646 (1951).

(ENGLISH). CHEMICAL RESEARCH
LAB., TEDDINGTON, MIDDLESEX,
ENGLAND.

314 Morgan, I. L., Ashe, J. B.,

Prudhomme, J. T., Martin, T. C.

**Activation analysis for impurities
in beryllium.**

ASD–TDR–62–1038, Volume I, Part
III, 73p. (May 1964).

(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.

320 Loveridge, B. A., Smales, A. A.

**Activation analysis and its
application in biochemistry.**

Methods of Biochemical Analysis,
Vol. V, 225–272, Glick, D. (Ed.),
Interscience, New York (1957).

(ENGLISH). UK AERE, HARWELL,
DIDCOT, BERKS., ENGLAND.

315 Linnenbom, V. J.

**Radioactivity applied to
analytical chemistry.**

*Radioactivity Applied to
Chemistry*, Chapter 5, 82–101,
Table 5B, 381–383, Wahl, A.C. and
Bonner, N.A. (Eds.), John Wiley
and Sons, Inc., New York (1951).

(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.

321 Lovett, J. E., Roberts, J. O.

**New ways in isotopic analysis of
uranium.**

Nucleonics, **15**, No. 7, 72–75
(1957).

(ENGLISH). USAEC, WASHINGTON,
D.C.

316 Jessen, P. L., Pierce, K. C.

**The ^{31}P (n,p) reaction as a
proposed standard method for
measurement of neutron yields
from the $d(d,n)^3\text{He}$ reaction.**

322 Lowe, L. F., Thompson, H. D.,
Cali, J. P.

**Neutron activation analysis of
silicon carbide.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Anal. Chem.*, **31**, 1951–1953 (1959).
(ENGLISH). AIR RESEARCH AND
DEVELOPMENT COMMAND, AIR FORCE
CAMBRIDGE RESEARCH CENTER,
BEDFORD, MASS.
- 323 Lukens, H. R.
**The activation of antimony in
adhesive products.**
Nucleonics, **17**, No. 1, 83 (1959).
(ENGLISH). SHELL DEVELOPMENT CO.,
EMERYVILLE, CALIF.
- 324 Jessen, P. L.
Long-lived targets.
KN-67-655(R), *Third Meeting on
Accelerator Targets Designed for
the Production of Neutrons,
Liege, Belgium, September 18–19,
1967*, 14p. (1967).
(ENGLISH). KAMAN NUCLEAR,
COLORADO SPRINGS, COLORADO.
- 325 Mackintosh, W. D., Jervis, R. E.
**Determination of low
concentrations of hafnium in
reactor-grade zirconium metal and
zirconium alloys by neutron
activation analysis.**
Anal. Chem., **30**, 1180–1182 (1958).
(ENGLISH). CHEMISTRY AND
METALLURGY DIV., AECL, CHALK
RIVER, ONTARIO, CANADA.
- 326 Mackintosh, W. D., Jervis, R. E.
**Determination of fissile material
by neutron activation analysis.**
CRDC-711 (AECL-483), 16p. (August
1957).
(ENGLISH). ATOMIC ENERGY OF
CANADA LTD., CHALK RIVER PROJECT,
ONTARIO, CANADA.
- 327 Macklin, R. L., Lykins, J. H.
**Photoneutron fission analysis for
U²³⁵ in high purity U²³⁸.**
J. Chem. Phys., **19**, 844–845
(1951).
(ENGLISH). UNION CARBIDE AND
CARBON CORP., OAK RIDGE, TENN.
- 328 Brune, D.
**Recoil reactions in neutron
activation analysis. I. The
Szilard–Chalmers effect applied
in the analysis of biological
samples. II. Transfer of
activities from container
material to sample.**
AE-172, 27p. (1965).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.
- 329 Mahlman, H. A., Leddicotte, G. W.
**Determination of microgram and
submicrogram quantities of
uranium by neutron activation
analysis.**
Anal. Chem., **27**, 823–825 (1955).
(ENGLISH). OAK RIDGE NATIONAL
LAB., OAK RIDGE, TENN.
- 330 Malinowski, J.
**The determination of sodium in
telluric acid by neutron
activation and gamma-spectrometry.**
Nukleonika, **6**, 211–213 (1961).
(FRENCH) (POLISH, ENGLISH AND
RUSSIAN SUMMARIES). INSTITUT DE
RECHERCHES NUCLEAIRES, WARSZAWA.
- 331 Maxia, V.
**Mo/Mn separation by anion exchange
and detection of the latter by
neutron activation.**
La Ricerca Scientifica, **29**, No. 7,
1476–1480 (1959).
(ITALIAN) (FRENCH, ENGLISH AND
GERMAN SUMMARIES). ISTITUTO DI
CHIMICA GENERALE DELL'UNIVERSITA
DI CAGLIARI, ITALY.
- 332 May, S., Leveque, P.
**Determination by neutron
activation of the concentration
of uranium-235 in some oxides of
uranium.**
*Radioisotopes in Scientific
Research*, **2**, 6p. (1958).
(FRENCH). CEN SACLAY, FRANCE.
- 333 Mayr, G.
**Activation analysis with nuclear
emulsions.**
Nucleonics, **12**, No. 5, 58–60
(1954).
(ENGLISH). UNIVERSITA DEGLI STUDI
DI MILANO, MILANO, ITALY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 334 Mayr, G.
Dosimetry by activation analysis.
La Ricerca Scientifica, **29**,
 1481–1489 (1959).
 (ITALIAN) (FRENCH, ENGLISH AND
 GERMAN SUMMARIES). FACOLTA DI
 MEDICINA DEL L'UNIVERSITA DE
 MILANO, ITALY.
- 335 Mayr, G., Bruner, H. D., Brucer,
 M.
**Boron detection in tissues using
 the (n, α) reaction.**
Nucleonics, **11**, No. 10, 21–25
 (1953).
 (ENGLISH). MEDICAL DIV., OAK
 RIDGE INSTITUTE OF NUCLEAR
 STUDIES, OAK RIDGE, TENN.
- 336 Mc Kay, H. A. C.
**Detection of plutonium by
 irradiation in the pile.**
AERE C/M 23, 3p. (1949).
 (ENGLISH). AERE, HARWELL,
 BERKSHIRE, ENGLAND.
- 337 Meinke, W. W.
**Trace element sensitivity
 comparison of activation analysis
 with other methods.**
Science, **121**, 177–184 (1955).
 (ENGLISH). DEPT. OF CHEMISTRY,
 UNIV. OF MICHIGAN, ANN ARBOR,
 MICH.
- 338 Meinke, W. W.
Activation analysis grows.
Chem. and Eng. News, **37**, No. 45,
 40 (1959).
 (ENGLISH). DEPT. OF CHEMISTRY,
 UNIV. OF MICHIGAN, ANN ARBOR,
 MICH.
- 339 Meinke, W. W.
**Does irradiation induce
 radioactivity in food?**
Nucleonics, **12**, No. 10, 37–39
 (1954).
 (ENGLISH). DEPT. OF CHEMISTRY AND
 FISSION PRODUCTS LAB., UNIV. OF
 MICHIGAN, ANN ARBOR, MICH.
- 340 Meinke, W. W.
**Sensitivity charts for neutron
 activation analysis.**
Anal. Chem., **31**, 792–795 (1959).
 (ENGLISH). DEPT. OF CHEMISTRY,
 UNIV. OF MICHIGAN, ANN ARBOR,
 MICH.
- 341 Meinke, W. W.
**Pneumatic tubes speed activation
 analysis.**
Nucleonics, **17**, No. 9, 86–89
 (1959).
 (ENGLISH). UNIV. OF MICHIGAN, ANN
 ARBOR, MICH.
- 342 Meinke, W. W.
**Trace–element sensitivity.
 Comparison of activation analysis
 with other methods.**
Trace Analysis, 619–636, Yoe, J.H.
 and Koch, H.J. (Eds.), John Wiley
 and Sons, New York (1957).
 (ENGLISH). UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 343 Meinke, W. W., Anderson, R. E.
**Activation analysis of several
 rare earth elements. A comparison
 with spectrophotometric
 procedures.**
Anal. Chem., **26**, 907–909 (1954).
 (ENGLISH). CHEMISTRY DEPT., UNIV.
 OF MICHIGAN, ANN ARBOR, MICH.
- 344 Meinke, W. W., Anderson, R. E.
**Activation analysis using a low
 level neutron source.**
Anal. Chem., **25**, 778–783 (1953).
 (ENGLISH). CHEMISTRY DEPT., UNIV.
 OF MICHIGAN, ANN ARBOR, MICH.
- 345 Meinke, W. W., Maddock, R. S.
**Neutron activation cross–section
 graphs.**
Anal. Chem., **29**, 1171–1174 (1957).
 (ENGLISH). DEPT. OF CHEMISTRY,
 UNIV. OF MICHIGAN, ANN ARBOR,
 MICH.
- 346 Condit, R. H., Holt, J. B.,
 Himmel, L.
**Nuclear activation technique for
 detecting nitrogen–15 tracer in
 solids.**
J. Electrochem. Soc., **114**, No. 11,
 1100–1104 (1967).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.
- 347 Merz, E., Herr, W.
Microdetermination of isotopic abundance by neutron activation.
Second United Nations International Conference on the Peaceful Uses of Atomic Energy, **28**, P/984, 491-495 (1958).
 (ENGLISH). MAX-PLANCK INSTITUT FÜR CHEMIE, MAINZ, GERMANY.
- 348 Iddings, F. A., Decell, R. F.
Installation and use of the Activation Analysis Laboratory at the Nuclear Science Center, Louisiana State University.
Proc. Louisiana Acad. Sci., **28**, 135-143 (December 1965).
 (ENGLISH). NUCLEAR SCIENCE CENTER, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LOUISIANA.
- 349 Mackintosh, W. D., Jervis, R. E.
The determination of trace quantities of uranium in NRU aluminum sheathing by neutron activation analysis.
 CRDC-704, 24p. (1957).
 (ENGLISH). CHALK RIVER, ONTARIO, CANADA.
- 350 Meinke, W. W.
Review of fundamental developments in analysis. *Nucleonics*, **Anal. Chem.**, **28**, 736-756 (1956).
 (ENGLISH). DEPT. OF CHEMISTRY, UNIV. OF MICHIGAN, ANN ARBOR, MICH.
- 351 Voigt, A. F., Abu-Samra, A.
Analysis of a Damascus steel by neutron and gamma activation.
 IS-1105, 12p. (February 25, 1965).
 (ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENTS OF CHEMISTRY AND NUCLEAR ENGINEERING, IOWA STATE UNIVERSITY, AMES, IOWA.
- 352 Miller, C. E.
Neutron activation analysis methods for the group VIII elements.
 ORNL-2715, 108p. (May 21, 1959).
 (ENGLISH). ORNL, OAK RIDGE, TENN.
- 353 Milner, G. W. C., Smales, A. A.
The determination of niobium in stainless steel.
Analyst, **79**, 425-430 (1954).
 (ENGLISH). ANALYTICAL CHEMISTRY GROUP, AERE, HARWELL, NR. DIDCOT, BERKS, ENGLAND.
- 354 Moljk, A., Drever, R. W. P., Curran, S. C.
Trace-quantity analysis. Neutron activation applied to potassium-mineral dating.
Nucleonics, **13**, No. 2, 44-46 (1955).
 (ENGLISH). DEPT. OF NATURAL PHILOSOPHY, GLASGOW UNIV., GLASGOW, SCOTLAND.
- 355 Monnier, D.
Radiochemical analysis.
Industries Atomiques, **1**, 59-64 (1957).
 (FRENCH). PROFESSEUR DE CHIMIE ANALYTIQUE, L'UNIVERSITE DE GENEVE.
- 356 Monnier, D., Haerdi, W., Vogel, J.
Macro and micro-analysis of traces of cobalt. (V). Analysis of an 18/8 steel by activation with thermal neutrons.
Helv. Chim. Acta, **43**, 675-686 (1960).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE MINERALE, DE CHIMIE ANALYTIQUE ET DE MICROCHIMIE DE L'UNIVERSITE DE GENEVE.
- 357 Mori, H., Umezawa, H.
Nondestructive determination of trace amount of manganese in steel by neutron activation.
J. Japan Inst. Metals, **24**, No. 10, 641-645 (1960).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 358 Montariol, F., Albert, P.,
Chaudron, G.
**Study by irradiation in the atomic
pile of intergranular and
interstitial segregation of trace
impurities in very pure aluminum.**
Compt. Rend., **235**, 477-480 (1952).
(FRENCH). FRANCE.
- 359 Morris, D. F. C.
**Neutron activation analysis and
nuclear technology.**
Chem. Proc. Eng., **41**, 229-231
(1960).
(ENGLISH). BRUNEL COLLEGE OF
TECHNOLOGY, LONDON, ENGLAND.
- 360 Morris, D. F. C., Brewer, F. M.
**The occurrence of gallium in
blende.**
Geochim. Cosmochim. Acta, **5**,
134-141 (1954).
(ENGLISH). AERE, HARWELL,
INORGANIC CHEMISTRY LAB., OXFORD
UNIV., ENGLAND.
- 361 Morris, D. F. C., Chambers, M. E.
**The determination of gallium in
rocks by neutron-activation
analysis.**
Talanta, **5**, 147-153 (1960).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 362 Morris, D. F. C., Fifield, F. W.
**The determination of rhenium in
rocks by neutron-activation
analysis.**
Talanta, **8**, 612-618 (1961).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 363 Morris, D. F. C., Killick, R. A.
**The determination of silver and
thallium in rocks by
neutron-activation analysis.**
Talanta, **4**, 51-60 (1960).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 364 Morris, D. F. C., Killick, R. A.
**The determination of ultra-micro
quantities of silver in platinum
sponge by neutron-activation
analysis.**
Talanta, **3**, 34-40 (1959).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 365 Morris, D. F. C., Killick, R. A.
**Silver and thallium contents of
rocks.**
Geochim. Cosmochim. Acta, **19**,
139-140 (1960).
(ENGLISH). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 366 Morris, D. F. C., Killick, R. A.
**The determination of silver in
galena and blende by
radioactivation analysis.**
Anal. Chim. Acta, **20**, 587-594
(1959).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, ENGLAND.
- 367 Morris, D. F. C., Olya, A.
**The determination of tantalum in
rocks by neutron-activation
analysis.**
Talanta, **4**, 194-200 (1960).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPT. OF CHEMISTRY,
BRUNEL COLLEGE OF TECHNOLOGY,
LONDON, W.3, ENGLAND.
- 368 Morrison, G. H.
**Neutron activation analysis for
trace elements.**
Appl. Spectro., **10**, 71-75 (1956).
(ENGLISH). CHEMISTRY LAB.,
SYLVANIA ELECTRIC PRODUCTS, INC.,
FLUSHING, N.Y.
- 369 Morrison, G. H.
**Radiochemistry in electronics
research.**
Nucleonics, **11**, No. 1, 28-29
(1953).
(ENGLISH). RADIOCHEMICAL LAB.,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- SYLVANIA ELECTRIC PRODUCTS, INC.,
BAYSIDE, N.Y.
- (1959).
(JAPANESE). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, JAPAN.
- 370 Morrison, G. H., Cosgrove, J. F.
**Activation analysis of trace
impurities in germanium using
scintillation spectrometry.**
Anal. Chem., **28**, 320–323 (1956).
(ENGLISH). CHEMISTRY LAB.,
SYLVANIA ELECTRIC PRODUCTS, INC.,
FLUSHING, N.Y.
- 371 Morrison, G. H., Cosgrove, J. F.
**Activation analysis of trace
impurities in silicon using
scintillation spectrometry.**
Anal. Chem., **27**, 810–813 (1955).
(ENGLISH). CHEMISTRY LAB.,
SYLVANIA ELECTRIC PRODUCTS, INC.,
BAYSIDE, N.Y.
- 372 Das, H. A.
Activation analysis.
Atomenergie Haar Toepassingen, **4**,
295–297 (1962).
(ENGLISH). REACTOR CENTRUM
NEDERLAND, PETTEN, NETHERLANDS.
- 373 Muehlhause, C. O., Thomas, G. E.
**Use of the pile for chemical
analysis.**
Nucleonics, **7**, No. 1, 9–17, 59
(1950).
(ENGLISH). ARGONNE NATIONAL LAB.,
CHICAGO, ILLINOIS.
- 374 Muller, J. H.
**Neutron activation analysis for
medical isotope dosimetry with
special consideration of
colloidal Au¹⁹⁸.**
*Proceedings First UNESCO
Conference Paris 1957*,
UNESCO/NS/RIC/205, 11p. (1957).
(ENGLISH). UNIVERSITY OF ZURICH,
SWITZERLAND.
- 375 Nakai, T., Yajima, S., Fujii, I.,
Okada, M.
**Activation analysis using
short-lived radioisotopes. I.
Determination of hafnium in
zirconium.**
J. Chem. Soc. Japan, **80**, 49–52
- 376 Atomics
**Neutron sources for activation
analysis.**
Atomics, **16**, No. 4, 20–25
(July–August 1963).
(ENGLISH). USA.
- 377 Nelson, L. C., Aaron, D.
**Determination of uranium-235 by
neutron activation.**
TID-7531, Part I, 78–96 (1957).
(ENGLISH). USAEC, NEW BRUNSWICK,
N.J.
- 378 Nixon, G. S., Smith, H.
**Estimation of arsenic in teeth by
activation analysis.**
J. Dental Research, **39**, No. 3,
514–516 (1960).
(ENGLISH). UNIVERSITY OF GLASGOW
DENTAL SCHOOL, GLASGOW, SCOTLAND.
- 379 Nozaki, T., Baba, H., Araki, H.
**Neutron activation analysis of
iodine in silicon.**
Bull. Chem. Soc. Japan, **33**,
320–322 (1960).
(ENGLISH). THE ELECTRICAL
COMMUNICATION LAB., NIPPON
TELEGRAPH AND TELEPHONE PUBLIC
CORP., MUSASHINO-SHI, TOKYO,
JAPAN.
- 380 Nuclear Corporation of America
Gamma rays locate beryllium.
Chem. and Eng. News, 42–43
(December 28, 1959).
(ENGLISH). NUCLEAR CORPORATION OF
AMERICA.
- 381 Odeblad, E.
**Activation analysis with charged
particles.**
Acta Radiol., **45**, 396–402 (1956).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). THE ISOTOPE LAB.,
DEPT. OF GYNECOLOGY, SABBATSBERGS
SJUKHUS, KAROLINSKA INSTITUTE,
STOCKHOLM, SWEDEN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 382 Odeblad, E.
Activation analysis with a polonium 210 alpha source.
Acta Radiol., **42**, 391–397 (1954).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF GYNAECOLOGY, SABBATSBERGS SJUKHUS, KAROLINSKA INSTITUTET, STOCKHOLM, SWEDEN.
- 383 Odeblad, E., Nati, G.
Detection of beryllium by means of the Be^9 (α, n) C^{12} reaction.
Acta Radiol., **43**, 249–255 (1955).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). THE GYNECOLOGICAL CLINIC, SABBATSBERGS SJUKHUS, KAROLINSKA INSTITUTET, STOCKHOLM, SWEDEN.
- 384 Odeblad, E., Odeblad, S.
Analytical use of the Al^{27} (α, n) P^{30} reaction.
Anal. Chim. Acta, **15**, 114–117 (1956).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ISOTOPE LAB., DEPT. OF GYNECOLOGY, KAROLINSKA INSTITUTET, SABBATSBERGS HOSPITAL, STOCKHOLM, SWEDEN.
- 385 Odeblad, E., Westin, B., Malmfors, K. G.
Determination of sodium and phosphorus in human cervical mucus with activation analysis.
Acta Radiol., **49**, 137–140 (1958).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). THE ISOTOPE LAB., DEPT. OF GYNECOLOGY, KAROLINSKA INSTITUTET, STOCKHOLM, SWEDEN.
- 386 Okada, M.
Non-destructive analysis of microgram quantities of silver by radioactivation.
Nature, **187**, 57–58 (1960).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, SHIBUYA-KU, TOKYO, JAPAN.
- 387 Okada, M.
Non-destructive analysis of selenium by neutron activation followed by gamma-ray spectrometry.
Nature, **187**, 594–595 (1960).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, SHIBUYA-KU, TOKYO, JAPAN.
- 388 Okada, M.
Optimum "cooling time" to minimize interfering activity in non-destructive activation analysis.
Anal. Chim. Acta, **24**, 410–412 (1961).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, HONMACHI, SHIBUYA-KU, TOKYO, JAPAN.
- 389 Atomics
Display and interpretation of gamma spectra.
Atomics, **16**, No. 4, 25–29 (July–August 1963).
 (ENGLISH). USA.
- 390 Ordogh, M., Upor–Juvancz, V.
Some data on the activation analysis of high purity silicon.
Acta Chim., **26**, 253–258 (1961).
 (ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST.
- 391 Osmond, R. G., Smales, A. A.
The determination by radioactivation of the oxygen content of powdered metals with particular reference to beryllium.
Anal. Chim. Acta, **10**, 117–128 (1954).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY GROUP, AERE, HARWELL, ENGLAND.
- 392 Overman, R. T., Swarthout, J. A.
The use of the uranium reactor in radiochemical studies.
 AECD–2245, 11p. (August 31, 1948).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 393 Peirson, D. H.
Radiochemical analysis by gamma-ray spectrometry.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Atomics*, 7, 316-322 (1956).
(ENGLISH). AERE, HARWELL,
ENGLAND.
- 394 Broda, E., Schonfeld, T.
Nuclear methods in chemical analysis.
Acta Chim. Acad. Sci. Hung., 50,
49-62 (1966).
(ENGLISH). DEPARTMENT OF
RADIOCHEMISTRY, INSTITUTE FOR
PHYSICAL CHEMISTRY, AND INSTITUTE
FOR INORGANIC CHEMISTRY,
UNIVERSITY OF VIENNA.
- 395 Op De Beeck, J.
**The determination of thorium,
lanthanum and samarium in
cerium(IV) nitrate by activation
analysis, with the aid of
electrophoretic focussing of
ions.**
Anal. Chim. Acta, 40, No. 2,
221-228 (1968).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 396 Phillips, G., Cornish, F. W.
**The determination of dysprosium in
holmium oxide by radioactivation
analysis.**
AERE C/R 1276, 11p. (November
1953).
(ENGLISH). AERE, HARWELL,
ENGLAND.
- 397 Picciotto, E., Van Styvendael, M.
**Determination and localization of
lithium by nuclear reaction in
minerals.**
Compt. Rend., 232, 855-857 (1951).
(FRENCH). FRANCE.
- 398 Plumb, R. C.
**Measuring trace elements by
activation analysis.**
Nucleonics, 14, No. 5, 48-49
(1956).
(ENGLISH). ALUMINUM RESEARCH
LAB., ALUMINUM CORP. OF AMERICA,
NEW KENSINGTON, PA.
- 399 Plumb, R. C., Lewis, J. E.
**How to minimize errors in neutron
activation analysis.**
Nucleonics, 13, No. 8, 42-46
(1955).
(ENGLISH). ALUMINUM RESEARCH
LAB., ALUMINUM CO. OF AMERICA,
NEW KENSINGTON, PA.
- 400 Plumb, R. C., Silverman, R. H.
**Activation analysis determines
sodium content of aluminum
alloys.**
Nucleonics, 12, No. 12, 29-31
(1954).
(ENGLISH). ALUMINUM RESEARCH
LAB., ALUMINUM CO. OF AMERICA,
NEW KENSINGTON, PA.
- 401 Point, J. J.
**Determination of small amounts of
carbon in iron by proton
irradiation.**
*Proceedings First UNESCO
Conference Paris 1957*,
UNESCO/NS/RIC/48, 8p. (1957).
(FRENCH). INSTITUT INTERUNIVERSIT
AIRE DES SCIENCES NUCLEAIRES,
CENTRE DE LA FACULTE
POLYTECHNIQUE DE MONS, BELGIQUE
- 402 Pouradier, J., Venet, A. M.,
Chateau, H.
**Application of the radiochemical
method for determining copper in
cellulose esters.**
Chim. Anal., 35, 125-128 (1953).
(FRENCH). FRANCE.
- 403 Ishii, D., Mori, H., Hirose, Y.
**Activation analysis of oxygen with
14 MeV neutrons using gold as
internal standard.**
Kogyo Kagaku Zasshi, 70, No. 7,
1112-1116 (1967).
(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF ENGINEERING, NAGOYA
UNIVERSITY, NAGOYA, JAPAN.
- 404 Atomics
**Applications of neutron activation
analysis.**
Atomics, 16, No. 4, 29-33
(July-August 1963).
(ENGLISH). USA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 405 Purser, P. R., Rygard, J.,
Hornnes, N.
**Activation analysis applied to
blood clearance tests using
colloidal gold.**
Phys. Med. Biol., **3**, 361–365
(1959).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). THE RADIUM CENTRE,
COPENHAGEN.
- 406 Lenihan, J. M. A.
Advances in activation analysis.
Nucleonics, **23**, No. 2, 65–66, 68,
70–71 (1965).
(ENGLISH). WESTERN REGIONAL
HOSP. BOARD, GLASGOW, SCOTLAND.
- 407 Putman, J. L., Taylor, W. H.
**Determination of selenium in glass
by a radioactivation method.**
Trans. Soc. Glass Technol., **42**,
84T–87T (1958).
(ENGLISH). AERE, HARWELL,
ENGLAND.
- 408 Rabinowicz, E.
**A study of metal transfer during
sliding, using radioactivation
analysis.**
Proc. Phys. Soc. A, **64**, 939–940
(1951).
(ENGLISH). RESEARCH LAB. ON THE
PHYSICS AND CHEMISTRY OF RUBBING
SOLIDS, DEPT. OF PHYSICAL
CHEMISTRY, CAMBRIDGE.
- 409 Fukai, R., Meinke, W. W.
**Activation analyses of vanadium,
arsenic, molybdenum, tungsten,
rhenium, and gold in marine
organisms.**
Limnology and Oceanography, **7**,
186–200 (1962).
(ENGLISH). DEPT. OF CHEM., UNIV.
OF MICHIGAN, ANN ARBOR, MICH.
- 410 Reed, G. W., Hamaguchi, H.,
Turkevich, A.
**The uranium contents of iron
meteorites.**
Geochim. Cosmochim. Acta, **13**,
248–255 (1958).
(ENGLISH). ARGONNE NATIONAL LAB.,
LEMONT, ILL.
- 411 Reed, G. W., Kigoshi, K.,
Turkevich, A.
**Activation analysis for heavy
elements in stone meteorites.**
*Second United Nations
International Conference on
Peaceful Uses of Atomic Energy*,
28, P/953, 486–490 (1958).
(ENGLISH). ARGONNE NATIONAL LAB.,
LEMONT, ILL.
- 412 Reed, G. W., Turkevich, A.
**Uranium content of two iron
meteorites.**
Nature, **176**, 794–795 (Oct. 22,
1955).
(ENGLISH). ARGONNE NATIONAL LAB.,
LEMONT, ILL.
- 413 Reid, A. F., Caldwell, R. L.,
Vanatta, J. C.
**The use of activation analysis and
radiosulfate space to determine
intracellular sodium.**
Arch. Biochem. Biophys., **84**, No.
2, 498–511 (1959).
(ENGLISH). DEPTS. OF BIOPHYSICS
AND PHYSIOLOGY, THE UNIVERSITY OF
TEXAS SOUTHWESTERN MEDICAL
SCHOOL.
- 414 Reiffel, L., Stone, C. A.
**Neutron activation analysis of
tissue measurements of sodium,
potassium and phosphorus in
muscle.**
J. Lab. Clin. Med., **49**, 286–291
(1957).
(ENGLISH). PHYSICS RESEARCH,
ARMOUR RESEARCH FOUNDATION,
ILLINOIS INSTITUTE OF TECHNOLOGY,
CHICAGO, ILL.
- 415 Reynolds, S. A.
Analytical radiochemistry.
Record of Chem. Progress, **16**,
99–119 (1955).
(ENGLISH). ANALYTICAL CHEMISTRY
DIV., OAK RIDGE NATIONAL LAB.,
OAK RIDGE, TENN.
- 416 Ricci, E., Mackintosh, W. D.
**Neutron activation method for the
determination of traces of
cadmium in aluminum.**
Anal. Chem., **33**, 230–233 (1961).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(ENGLISH). CHEMISTRY AND METALLURGY DIV., ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, CANADA.

Chemical analysis of surfaces by nuclear methods.

Anal. Chem., **29**, 736-743 (1957).

(ENGLISH). STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF.

417 Riezler, W.

Analysis through nuclear transmutation.

Z. Naturforsch., **4A**, 545-549 (1949).

(GERMAN). PHYSIKALISCHEN INSTITUT DER UNIVERSITAT BONN, GERMANY.

424 Hirano, S., Mizuike, A., Takagi, S.

Determination of gold and arsenic in high-purity lead by neutron-activation analysis.

Bunseki Kagaku, **10**, 951-954 (1961).

(JAPANESE) (ENGLISH SUMMARY). FACULTY OF ENGINEERING, UNIVERSITY OF TOKYO, JAPAN.

418 Beck, D. J., Gillings, B. R. D.

Investigation of the usefulness of neutron activation analysis for studying trace elements in saliva.

J. Dent. Res., **40**, 383 (1961).

(ENGLISH). EASTMAN DENTAL DISPENSARY, ROCHESTER, N.Y.

425 Ryskin, G. Y.

Diffusion coefficient measurement by the radioactivation analysis and isotopic dilution methods.

Sov. Phys. Solid State, **1**, No. 6, 870-872 (1959).

(ENGLISH TRANSLATION). LENINGRAD PHYSICOTECHNICAL INSTITUTE, ACADEMY OF SCIENCES, USSR.

419 Motozima, K., Bando, S.

Radioactivation analysis.

Kagaku Kogyo, **14**, 771-778 (1963).

(JAPANESE). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.

426 Fujii, I., Muto, H., Miyoshi, K.

Determination of oxygen in metals by 14 MeV neutron activation.

Bunseki Kagaku, **13**, 249-254 (1964).

(JAPANESE) (ENGLISH SUMMARY). TOKYO SHIBAURA ELECTRIC CO., LTD., KAWASAKI, JAPAN.

420 Rodden, C. J.

Analytical nuclear chemistry.

Ann. Rev. Nucl. Sci., **1**, 343-362 (1952).

(ENGLISH). NEW BRUNSWICK, N.J.

421 Rona, E.

A method to determine the isotopic ratio of thorium-232 to thorium-230 in minerals.

Trans. Am. Geophys. Union, **38**, 754-759 (1957).

(ENGLISH). OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, OAK RIDGE, TENN.

427 Saito, N.

Radioactivation analysis.

Bunseki Kagaku, **4**, 254-262 (1955).

(JAPANESE). JAPAN.

422 Rona, E., Hood, D. W., Akers, L. K., Muse, L.

Determination of manganese in sea water.

Preprint, 9p.

(ENGLISH). OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, OAK RIDGE, TENN.

428 Salmon, L.

Gamma spectroscopy applied to radioactivation analysis. Part 3.

The determination of cobalt in iron using gamma-gamma coincidence measurement.

AERE C/R 2377(3), 15p. (1958).

(ENGLISH). AERE, HARWELL, BERKSHIRE, ENGLAND.

423 Rubin, S., Passell, T. O., Bailey, L. E.

429 Salmon, L.

The determination of sodium and potassium in a sample of dunite

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- by radioactivation analysis.**
AERE C/M 323, 6p. (1957).
(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.
- 430 Salmon, L.
**Gamma ray spectroscopy applied to
radioactivation analysis. Part 1.
Introduction and nuclear data.**
AERE C/R 2377(1), 92p. (1959).
(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.
- 431 Salmon, L.
**The determination by
radioactivation of arsenic
occurring in high purity sulphur
used by isotopes division.**
AERE C/M 154, 3p. (1952).
(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.
- 432 Salmon, L.
**The extent of the fast neutron
effect on the determination of
sodium in aluminium by activation
in the Harwell pile.**
AERE C/R 1324, 3p. (1954).
(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.
- 433 Sayre, E. V., Murrenhoff, A.,
Weick, C. F.
**The nondestructive analysis of
ancient potsherds through neutron
activation.**
BNL 508 (T-122), 15p. (April 1,
1958).
(ENGLISH). BROOKHAVEN NATIONAL
LAB., UPTON, N.Y.
- 434 Schindewolf, U.
**Selenium and tellurium content of
stony meteorites by neutron
activation.**
Geochim. Cosmochim. Acta, **19**,
134-138 (1960).
(ENGLISH). DEPT. OF CHEMISTRY,
UNIV. OF MICHIGAN, ANN ARBOR,
MICH.
- 435 Schindewolf, U.
**Chemical analysis by means of
neutron reactions.**
Angew. Chem., **70**, 181-187 (1958).
(GERMAN). DEPT. OF CHEMISTRY,
UNIV. OF MICHIGAN, ANN ARBOR,
MICH.
- 436 Schindewolf, U., Wahlgren, M. A.
**The rhodium, silver and indium
content of some chondritic
meteorites.**
Geochim. Cosmochim. Acta, **18**,
36-41 (1960).
(ENGLISH). DEPT. OF CHEMISTRY,
UNIV. OF MICHIGAN, ANN ARBOR,
MICH.
- 437 Schmeiser, K., Jerchel, D.
**Analysis of compounds containing
sulphur, chlorine and bromine by
paper chromatograms and induced
radioactivity.**
Angew. Chem., **65**, 366-368 (1953).
(GERMAN). INSTITUTEN FUR
CHEMIE AM MAX-PLANCK INSTITUT FUR
MEDIZINISCHE FORSCHUNG,
HEIDELBERG, GERMANY.
- 438 Schmeiser, K., Jerchel, D.
**Determination of phosphors by
neutron activation of paper
electrophoresograms.**
Angew. Chem., **65**, 490-491 (1953).
(GERMAN). INSTITUTEN FUR
PHYSIK UND CHEMIE IN MAX-PLANCK
INSTITUT FUR MEDIZINISCHE
FORSCHUNG, HEIDELBERG, GERMANY.
- 439 Schmitt, R. A., Mosen, A. W.,
Suffredini, C. S., Lasch, J. E.,
Sharp, R. A., Olehy, D. A.
**Abundances of the rare-earth
elements, lanthanum to lutetium,
in chondritic meteorites.**
Nature, **186**, 863-866 (1960).
(ENGLISH). JOHN JAY HOPKINS LAB.
FOR PURE AND APPLIED SCIENCE,
GENERAL ATOMIC DIV. OF GENERAL
DYNAMICS CORP., SAN DIEGO, CALIF.
- 440 Schonfeld, T., Broda, E.
**The use of radioactivity in
chemical analysis.**
Atompraxis, **3**, 217-221 (1957).
(GERMAN). CHEMISCHEN
INSTITUT DER UNIVERSITAT WIEN,
AUSTRIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 441 Schulze, W.
On the neutron activation method.
Z. Elektrochemie, **64**, No. 8/9,
 1083–1088 (1960).
 (GERMAN). HAHN-MEITNER-IN-
 STITUT FÜR KERNFORSCHUNG, SEKTOR
 KERNCHEMIE, BERLIN-WANNSEE,
 GERMANY.
- 442 Samsahl, K.
**A fast radiochemical method for
 the determination of some
 essential trace elements in
 biology and medicine.**
AE-168, 12p. (1964).
 (ENGLISH). AKTIEBOLAGET
 ATOMENERGI, STOCKHOLM, SWEDEN.
- 443 Seaborg, G. T., Livingood, J. J.
**Artificial radioactivity as a test
 for minute traces of elements.**
J. Am. Chem. Soc., **60**, 1784–1786
 (1938).
 (ENGLISH). DEPT. OF CHEMISTRY AND
 RADIATION LAB., DEPT. OF PHYSICS,
 UNIVERSITY OF CALIFORNIA.
- 444 Bryan, D. E., Guinn, V. P.
**A method of comparing gamma-ray
 spectra for the presentation of
 activation analysis results in
 court.**
Trans. Am. Nucl. Society, **7**, 329
 (1964).
 (ENGLISH). GENERAL ATOMICS, SAN
 DIEGO, CALIF.
- 445 Senftle, F. E., Gaudin, A. M.
**Concentration of ores by induced
 activities.**
Nucleonics, **8**, No. 5, 53–59
 (1951).
 (ENGLISH). DEPT. OF METALLURGY,
 MIT, CAMBRIDGE, MASS.
- 446 Senftle, F. E., Leavitt, W. Z.
**Table for simplifying calculations
 of activities produced by thermal
 neutrons.**
Nucleonics, **6**, No. 5, 54–63
 (1950).
 (ENGLISH). DEPT. OF METALLURGY,
 MIT, CAMBRIDGE, MASS.
- 447 Senftle, F. E., Champion, W. R.
**Tables for simplifying
 calculations of activities
 produced by thermal neutrons.**
Suppl. Nuovo Cimento, **12**, No. 3,
 549–571 (1954).
 (ENGLISH). U.S. GEOLOGICAL
 SURVEY, WASHINGTON, D.C.
- 448 Seyfang, A. P.
**An improvement in the
 determination of uranium-235 by
 radioactivation.**
Analyst, **80**, 74–76 (1955).
 (ENGLISH). DEPT. OF ATOMIC
 ENERGY, CHEMICAL SERVICES DEPT.,
 SPRINGFIELDS WORKS, SALWICK, NR.
 PRESTON, LANCS., ENGLAND.
- 449 Seyfang, A. P., Smales, A. A.
**The determination of uranium-235
 in mixtures of naturally
 occurring uranium isotopes by
 radioactivation.**
Analyst, **78**, 394–405 (1953).
 (ENGLISH). ANALYTICAL CHEMISTRY
 GROUP, AERE, HARWELL, BERKSHIRE,
 ENGLAND.
- 450 Burnett, W. T., Cohan, M. D.
**The removal of sodium
 contaminants, in activation
 analysis, with a centrifugation
 method using ion exchange paper
 in a novel plastic column.**
Trans. Am. Nucl. Soc., **7**, 333–334
 (1964).
 (ENGLISH). GENERAL ATOMICS, SAN
 DIEGO, CALIF.
- 451 Shipman, G. F., Milner, O. I.
**Determination of arsenic in
 hydrocarbon reforming catalysts
 by neutron activation.**
Anal. Chem., **30**, 210–212 (1958).
 (ENGLISH). RESEARCH AND
 DEVELOPMENT LAB., SOCONY MOBIL
 OIL CO., INC., PAULSBORO, N.J.
- 452 Short, H. G., Williams, A. I.
**Determination of small amounts of
 silicon in high-purity iron.**
Analyst, **83**, 624–627 (1958).
 (ENGLISH). NATIONAL PHYSICAL
 LAB., TEDDINGTON, MIDDLESEX,
 ENGLAND.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 453 Simnad, M. T. (ENGLISH). AERE, HARWELL, ENGLAND.
Nuclear irradiation and radioisotopes in metal research.
Intern. J. Applied Radiation Isotopes, **1**, 145–171 (1956).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED RESEARCH, GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 454 Shibuya, M. (JAPANESE). NATIONAL INSTITUTE OF AGRICULTURAL SCIENCES, TOKYO, JAPAN.
Study on the utilization of activation analysis by reactor neutrons in the analysis of microinorganic elements in plants and soils.
Proceedings Japan Conference Radioisotopes, **4th**, 1156–1160 (1961).
- 455 Sippel, R. F., Glover, E. D. (ENGLISH). SOCONY MOBIL OIL CO., INC., FIELD RESEARCH LAB., DALLAS, TEXAS.
Sedimentary rock analysis by charged particle bombardment.
Nucl. Instr. and Methods, **9**, 37–48 (1960).
- 456 Smales, A. A. (ENGLISH). AERE, HARWELL, ENGLAND.
Some indication of the scope of radioactivation analysis.
Radioisotope Techniques, **II**, 162–171 (Oxford 1951), H.M.S.O. London (1952).
- 457 Smales, A. A. (ENGLISH). ANALYTICAL CHEMISTRY GROUP, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.
A comparison of some methods for the determination of trace impurities in semiconductors.
J. Electronics, **1**, 327–332 (1955).
- 458 Smales, A. A. (ENGLISH). AERE, HARWELL, BERKS, ENGLAND.
The scope of radioactivation analysis.
Atomics, **4**, 55–63 (1953).
- 459 Myttenaere, C., Kirchmann, R. (FRENCH). SERVICE DE BIOLOGIE DE LA DIRECTION RECHERCHES ET ENSEIGNEMENT DE L'EURATOM, DETACHE AU C.E.N. MOL, BELGIUM.
Influence of the application of stable strontium to the soil on the strontium content of cultivated vegetables. Use of activation analysis and gamma spectrometry.
Physiol. Plantarum, **15**, No. 4, 656–662 (1962).
- 460 Smales, A. A. (ENGLISH). AERE, HARWELL, BERKS, ENGLAND.
The determination of trace impurities in liquid metal coolants by radioactivation methods.
International Conference on the Peaceful Uses of Atomic Energy, **9**, 273–279 (1955).
- 461 Smales, A. A. (ENGLISH) (FRENCH AND GERMAN SUMMARIES). AERE, HARWELL, ENGLAND.
The determination of small quantities of uranium in rocks and minerals by radioactivation.
Analyst, **77**, 778–789 (1952).
- 462 Smales, A. A. (ENGLISH). ANALYTICAL CHEMISTRY GROUP, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.
Some trace-element determinations in G-1 and W-1 by neutron activation.
Geochim. Cosmochim. Acta, **8**, 300 (1955).
- 463 Smales, A. A. (ENGLISH). AERE, HARWELL, BERKS, ENGLAND.
Recent advances in radioactivation analysis.
International Conference on the Peaceful Uses of Atomic Energy, **15**, 73–77 (1955).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 464 Smales, A. A.
Radioactivation analysis.
Ann. Reports Chem. Soc., **46**,
 285–291 (1949).
 (ENGLISH). AERE, HARWELL,
 ENGLAND.
- 465 Smales, A. A., Brown, L. O.
**The determination of arsenic in
 germanium dioxide by
 radioactivation.**
Chem. and Ind., 441–442 (1950).
 (ENGLISH). AERE, HARWELL,
 ENGLAND.
- 466 Smales, A. A., Ferrett, D. J.
**The impact of atomic energy on
 analytical chemistry.**
Atomic World, **10**, 210–214 (1959).
 (ENGLISH). ANALYTICAL CHEMISTRY
 BRANCH, AERE, HARWELL, ENGLAND.
- 467 Smales, A. A., Loveridge, B. A.
**The determination of sub-microgram
 quantities of sodium in lithium
 metal by radioactivation.**
Anal. Chim. Acta, **13**, 566–573
 (1955).
 (ENGLISH) (FRENCH AND GERMAN
 SUMMARIES). AERE, HARWELL, BERKS,
 ENGLAND.
- 468 Smales, A. A., Mapper, D.
**The determination of certain trace
 impurities in graphite by
 radioactivation. Part 1.
 Vanadium.**
 AERE C/R 2392, 16p. (1957).
 (ENGLISH). AERE, HARWELL,
 BERKSHIRE, ENGLAND.
- 469 Smales, A. A., Mapper, D., Morgan,
 J. W., Webster, R. K., Wood, A.
 J.
**Some geochemical determinations
 using radioactive and stable
 isotopes.**
*Second United Nations
 International Conference on the
 Peaceful Uses of Atomic Energy*,
2, P/282, 242–248 (1958).
 (ENGLISH). UKAEA, AERE, HARWELL,
 ENGLAND.
- 470 Smales, A. A., Mapper, D., Wood,
 A. J.
**The determination, by
 radioactivation, of small
 quantities of nickel, cobalt and
 copper in rocks, marine sediments
 and meteorites.**
Analyst, **82**, 75–88 (1957).
 (ENGLISH). ANALYTICAL CHEMISTRY
 GROUP, AERE, HARWELL, NR. DIDCOT,
 BERKS, ENGLAND.
- 471 Smales, A. A., Mapper, D., Wood,
 A. J.
**Radioactivation analysis of
 "cosmic" and other magnetic
 spherules.**
Geochim. Cosmochim. Acta, **13**,
 123–126 (1958).
 (ENGLISH). AERE, HARWELL,
 ENGLAND.
- 472 Smales, A. A., Mapper, D.,
 Seyfang, A. P.
**The determination of uranium in
 fairly pure beryllium metal by
 neutron activation and gamma
 spectrometry.**
 AERE-R 3313, 25p. (1960).
 (ENGLISH). CHEMISTRY DIVISION,
 AERE, HARWELL, BERKSHIRE,
 ENGLAND.
- 473 Smales, A. A., Mapper, D., Wood,
 A. J.
**The determination by
 radioactivation of trace
 quantities of arsenic, antimony
 and copper in pure silicon.**
 AERE C/R 2254, 26p. (1957).
 (ENGLISH). AERE, HARWELL,
 BERKSHIRE, ENGLAND.
- 474 Smales, A. A., Pate, B. D.
**Determination of submicrogram
 quantities of arsenic by
 radioactivation. General method
 and application to germanium
 dioxide.**
Anal. Chem., **24**, 717–721 (1952).
 (ENGLISH). AERE, HARWELL,
 ENGLAND.
- 475 Smales, A. A., Pate, B. D.
**The determination of sub-microgram
 quantities of arsenic by**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

radioactivation. Part II. The determination of arsenic in sea-water.

Analyst, **77**, 188-195 (1952).

(ENGLISH). AERE, HARWELL, ENGLAND.

476 Smales, A. A., Pate, B. D.

The determination of sub-microgram quantities of arsenic by radioactivation. Part III. The determination of arsenic in biological material.

Analyst, **77**, 196-202 (1952).

(ENGLISH). AERE, HARWELL, ENGLAND.

477 Smales, A. A., Salmon, L.

Determination by radioactivation of small amounts of rubidium and caesium in sea-water and related materials of geochemical interest.

Analyst, **80**, 37-50 (1955).

(ENGLISH). AERE, HARWELL, ENGLAND.

478 Smales, A. A., Smit, J. Van R., Irving, H.

Determination of indium in rocks and minerals by radioactivation.

Analyst, **82**, 539-549 (1957).

(ENGLISH). AERE, HARWELL, ENGLAND.

479 Smirnov, V. N., Starchik, L. P.

The quantitative control of beryllium and fluorite ore concentrates by alpha-particle bombardment.

Akademiia Nauk SSSR Doklady, **127**, No. 3, 618-619 (1959).

(RUSSIAN). RUSSIA.

480 Analytical Chemistry

New service to analysts.

Anal. Chem., **24**, 1235 (1952).

(ENGLISH). USA.

481 Smith, H.

Estimation of arsenic in biological tissue by activation analysis.

Anal. Chem., **31**, 1361-1363 (1959).

(ENGLISH). DEPT. OF FORENSIC MEDICINE, UNIV. OF GLASGOW, GLASGOW, SCOTLAND.

482 Smith, R. R., Passell, T. O., Reeder, S. D.

Radiochemical analyses for Fe, Cr, Ni, and Co corrosion products.

AECD-3889, 16p. (September 9, 1955).

(ENGLISH). PHILLIPS PETROLEUM CO., ATOMIC ENERGY DIV., IDAHO FALLS, IDAHO.

483 Sowden, E. M.

Trace elements in human tissue. 3. Strontium and barium in non-skeletal tissues.

Biochem. J., **70**, 712-715 (1958).

(ENGLISH). MEDICAL RESEARCH COUNCIL RADIOBIOLOGICAL RESEARCH UNIT, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.

484 Sowden, E. M., Pirie, A.

Barium and strontium concentrations in eye tissue.

Biochem. J., **70**, 716-717 (1958).

(ENGLISH). M.R.C. RADIOBIOLOGICAL RESEARCH UNIT, AERE, HARWELL, ENGLAND.

485 Sowden, E. M., Stitch, S. R.

Trace elements in human tissue. 2. Estimation of the concentrations of stable strontium and barium in human bone.

Biochem. J., **67**, 104-109 (1957).

(ENGLISH). MEDICAL RESEARCH COUNCIL RADIOBIOLOGICAL RESEARCH UNIT, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.

486 Spencer, R. P.

Neutron activation of trace metals as a tool in industrial health and toxicology.

A.M.A. Arch. Ind. Health, **20**, 194-198 (1959).

(ENGLISH). BOSTON, MASS.

487 Spencer, R. P., Mitchell, T. G., King, E. R.

Neutron activation analysis of blood.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Am. J. Roentgenol. Radium Therapy Nuclear Med.*, **79**, 1053–1062 (1958).
(ENGLISH). RADIOISOTOPE LAB., US NAVAL HOSPITAL, BETHESDA, MARYLAND.
- 488 Spencer, R. P., Mitchell, T. G., King, E. R.
Medical applications of neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **3**, 104–112 (1958).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). THE RADIOISOTOPE LAB., US NAVAL HOSPITAL, BETHESDA, MARYLAND.
- 489 Spencer, R. P., Mitchell, T. G., King, E. R.
Neutron activation analysis of sodium in blood serum.
J. Lab. Clin. Med., **50**, 646–652 (1957).
(ENGLISH). RADIOISOTOPE LAB., US NAVAL HOSPITAL, BETHESDA, MARYLAND.
- 490 Starik, I. E., Shats, M. M.
Determination of uranium in stone and iron meteorites.
Geochemistry, USSR, **19**, No. 2, 140–148 (1956).
(ENGLISH TRANSLATION). RUSSIA.
- 491 Stephens, W. E., Lewis, M. N.
Autoradiographic detection of aluminum.
Phys. Rev., **69**, 43 (1946).
(ENGLISH). RANDAL MORGAN LABORATORY OF PHYSICS, UNIV. OF PENNSYLVANIA, PHILADELPHIA, PA.
- 492 Stewart, D. C., Bentley, W. C.
Analysis of uranium in sea water.
Science, **120**, 50–51 (1954).
(ENGLISH). ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 493 Stoenner, R. W., Zahringer, J.
Potassium–argon age of iron meteorites.
Geochim. Cosmochim. Acta, **15**, 40–50 (1958).
(ENGLISH). BROOKHAVEN NATIONAL LAB., UPTON, L.I., N.Y.
- 494 Stribel, T.
Determination of the hafnium content of zirconium by activation analysis.
Z. Angew. Phys., **9**, 293 (1957).
(GERMAN). MAX-PLANCK INSTITUT FÜR PHYSIK DER STRATOSPHERE, GERMANY.
- 495 Sue, P.
Analytical use of (d,n) and (d,α) nuclear reactions for certain light elements.
Compt. Rend., **242**, 770–771 (1956).
(FRENCH). FRANCE.
- 496 Sue, P.
Analyses by artificial radioelements and by neutrons.
Bull. Soc. Chim. France, D.9–D.32 (1951).
(FRENCH). FRANCE.
- 497 Sue, P.
Trace analysis by activation with deuterons.
15th International Congress of Pure and Applied Chemistry, Lisbon, Paper V-31 (France), 764–765 (1956).
(FRENCH). LABORATOIRE DE PHYSIQUE ET CHIMIE NUCLEAIRES, COLLEGE DE FRANCE, PARIS, FRANCE.
- 498 Sue, P.
Possibility of the microdetermination of carbon inorganic materials by the nuclear reaction $C^{12}(d,n)N^{13}$.
Compt. Rend., **237**, 1696–1698 (1953).
(FRENCH). FRANCE.
- 499 Sue, P.
Nitrogen determination by the $N^{14}(d,n)O^{15}$ nuclear reaction.
Compt. Rend., **240**, 88–90 (1955).
(FRENCH). FRANCE.
- 500 Broadhead, K. G., Heady, H. H.
Elimination of container effects in activation analysis.
Anal. Chem., **37**, 759–760 (1965).
(ENGLISH). RENO METALLURGY RESEARCH CENTER, BUREAU OF MINES,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

U.S. DEPARTMENT OF THE INTERIOR,
RENO, NEVADA.

Berl, W.G. (Ed.), Academic Press
Inc., New York (1956).
(ENGLISH). CHEMISTRY DEPT.,
COLUMBIA UNIVERSITY, N.Y.

501 Szekely, G.

**Determination of traces of copper
in germanium by activation
analysis.**

Anal. Chem., **26**, 1500–1502 (1954).

(ENGLISH). PHYSICS LABORATORIES,
SYLVANIA ELECTRIC PRODUCTS, INC.,
BAYSIDE, N.Y.

507 Choy, T. K., Lukens, H. R.,
Andersen, G. H.

**The determination of zirconium by
neutron activation analysis: Use
of chemically separated
niobium-97.**

Trans. Am. Nucl. Soc., **7**, 332–333
(1964).

(ENGLISH). GENERAL ATOMICS, SAN
DIEGO, CALIF.

502 Talbot, J., Albert, P., Caron, M.,
Chaudron, G.

**Method of preparation and analysis
of samples of iron of very high
purity.**

Revue Metallurgie, **50**, 817–828
(1953).

(FRENCH). FRANCE.

508 Thompson, B. A.

**Analysis of thin metal films by
neutron activation.**

Anal. Chem., **31**, 1492–1495 (1959).

(ENGLISH). GENERAL ENGINEERING
LABORATORY, GENERAL ELECTRIC CO.,
SCHENECTADY, N.Y.

503 Taylor, T. I., Anderson, R. H.,
Havens, W. W.

**Chemical analysis by neutron
spectroscopy.**

Science, **114**, 341–355 (1951).

(ENGLISH). CHEMISTRY AND PHYSICS
DEPARTMENTS, COLUMBIA UNIVERSITY,
N.Y.

509 Thompson, B. A., Strause, B. M.,
Leboeuf, M. B.

**Gamma spectrometric and
radiochemical analysis for
impurities in ultrapure silicon.**

Anal. Chem., **30**, 1023–1027 (1958).

(ENGLISH). GENERAL ENGINEERING
LABORATORY, GENERAL ELECTRIC CO.,
SCHENECTADY, N.Y.

504 Wester, P. O.

**Concentration of 17 elements in
subcellular fractions of beef
heart tissue determined by
neutron activation analysis.**

AE-169, 29p. (December 1964).

(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.

510 Tittle, C. W.

Slow-neutron detection by foils—I.
Nucleonics, **8**, No. 6, 5–9 (1951).

(ENGLISH). DEPT. OF PHYSICS,
NORTH TEXAS STATE COLLEGE,
DENTON, TEXAS.

505 Taylor, T. I., Havens, W. W.

**Neutron spectroscopy for chemical
analysis – III. Thermal neutrons,
neutron flux, activation.**

Nucleonics, **6**, No. 4, 54–66
(1950).

(ENGLISH). CHEMISTRY DEPT.,
COLUMBIA UNIVERSITY, N.Y.

511 Nascutiu, T.

**Analysis of inorganic substances
by radioactivation in paper
chromatography.**

*Acad. Rep. Populare Romine, Studii
Cercetari Chim.*, **10**, No. 1 and 2,
275–284 (1962).

(RUMANIAN) (RUSSIAN AND FRENCH
SUMMARIES). INSTITUTE FOR ATOMIC
PHYSICS, BUCHAREST, ROMANIA.

506 Taylor, T. I., Havens, W. W.

**Neutron spectroscopy and neutron
interactions in chemical
analysis, neutron activation.**

*Physical Methods in Chemical
Analysis*, Vol. III, 539–620,

512 Tobias, C. A., Dunn, R. W.

Analysis of microcomposition of

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- biological tissue by means of induced radioactivity.**
Science, **109**, 109–113 (1949).
 (ENGLISH). DIVISION OF MEDICAL PHYSICS, RADIATION LAB., AND DEPARTMENT OF PHYSICS, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 513 Tobias, C. A., Wolfe, R., Dunn, R. W., Rosenfeld, I.
The abundance and rate of turnover of trace elements in laboratory mice with neoplastic disease.
Unio. Internationalis Contra Cancrum Acta, **7**, 874–881 (1952).
 (ENGLISH) (GERMAN, SPANISH, FRENCH AND ITALIAN SUMMARIES). DIVISION OF MEDICAL PHYSICS, DEPARTMENT OF PHYSICS, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 514 Davies, W. H., Coleman, R. F.
The determination of traces of uranium by delayed neutron emission.
 AWRE Report No. O-88/64, 11p. (November 1964).
 (ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WEAPONS GROUP, ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKS, ENGLAND.
- 515 Tordai, L.
Radioactive tracers in research and industry. 3. Radiochemical methods in inorganic analysis.
Mfg. Chemist, **20**, 481–486 (1949).
 (ENGLISH). THE LONDONDERRY LABORATORIES FOR RADIOCHEMISTRY, UNIVERSITY OF DURHAM, ENGLAND.
- 516 Kato, H., Seino, H.
A method of activation analysis for competing reactions by using reactor neutron spectra (activation analysis of manganese in iron).
Radioisotopes (Tokyo), **14**, 468–474 (November 1965).
 (JAPANESE) (ENGLISH SUMMARY). TOKYO ATOMIC INDUSTRIAL RESEARCH LABORATORY, LTD., KAWASAKI-CITY, KANAGAWA PREF., JAPAN.
- 517 Turkevich, A., Tompkins, A.
A search for Si³² in natural silicon.
Phys. Rev., **90**, 247 (1953).
 (ENGLISH). INSTITUTE FOR NUCLEAR STUDIES, UNIV. OF CHICAGO AND CHEMISTRY DIVISION, ARGONNE NATIONAL LAB., LEMONT, ILLINOIS.
- 518 Turner, S. E.
Fast neutron activation analysis – silicon and aluminum.
Anal. Chem., **28**, 1457–1459 (1956).
 (ENGLISH). FIELD RESEARCH LABORATORIES, MAGNOLIA PETROLEUM CO., DALLAS, TEX.
- 519 Veal, D. J., Cook, C. F.
A rapid method for the direct determination of elemental oxygen by activation with fast neutrons.
Anal. Chem., **34**, 178–184 (1962).
 (ENGLISH). PHILLIPS PETROLEUM CO., BARTLESVILLE, OKLA.
- 520 U. S. Atomic Energy Commission
Isotope systems development program.
 CONF-641101, *Sixth Annual Contractors Meeting, November 9–10, 1964*, 76p. (1964).
 (ENGLISH). DIV. OF ISOTOPES DEVELOPMENT, AEC, WASHINGTON, D.C.
- 521 Vincent, J.
Distribution of sodium in compact bone as revealed by autoradiography of neutron activated sections.
Nature, **184**, 1332–1333 (1959).
 (ENGLISH). DEPARTMENT OF ANATOMY AND HISTOLOGY, LOVANUM UNIVERSITY, LEOPOLDVILLE, BELGIAN CONGO.
- 522 Vincent, E. A., Bilefield, L. I.
Cadmium in rocks and minerals from the Skaergaard intrusion, East Greenland.
Geochim. Cosmochim. Acta, **19**, 63–69 (1960).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, UNIVERSITY MUSEUM, OXFORD, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 523 Vincent, E. A., Crocket, J. H.
Studies in the geochemistry of gold—II. The gold content of some basic and ultrabasic rocks and stone meteorites.
Geochim. Cosmochim. Acta, **18**, 143–148 (1960).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, UNIVERSITY MUSEUM, OXFORD, ENGLAND.
- 524 Vincent, E. A., Crocket, J. H.
Studies in the geochemistry of gold—I. The distribution of gold in rocks and minerals of the Skaergaard intrusion, East Greenland.
Geochim. Cosmochim. Acta, **18**, 130–142 (1960).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, UNIVERSITY MUSEUM, OXFORD, ENGLAND.
- 525 Vincent, E. A., Smales, A. A.
The determination of palladium and gold in igneous rocks by radioactivation analysis.
Geochim. Cosmochim. Acta, **9**, 154–160 (1956).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, UNIVERSITY OF OXFORD, OXFORD, ENGLAND.
- 526 Wager, L. R., Smit, J. Van R., Irving, H.
Indium content of rocks and minerals from the Skaergaard intrusion, East Greenland.
Geochim. Cosmochim. Acta, **13**, 81–86 (1958).
 (ENGLISH). UNIVERSITY OF OXFORD, OXFORD, ENGLAND.
- 527 Watson, B. T.
Computers in activation analysis.
J. Nucl. Med., **4**, 306–311 (1963).
 (ENGLISH). VETERANS ADMIN. HOSP., OMAHA, NEBRASKA.
- 528 Wanke, H.
Scandium-45 as a reaction product of cosmic rays in iron meteorites. I.
Z. Naturforsch., **13A**, 645–649 (1958).
 (GERMAN). MAX-PLANCK
- INSTITUT FUR CHEMIE, MAINZ, GERMANY.
- 529 Wanke, H., Konig, H.
A new method of potassium-argon age determination and its application to a stony meteorite.
Z. Naturforsch., **14A**, 860–866 (1959).
 (GERMAN). MAX-PLANCK INSTITUT FUR CHEMIE (OTTO-HAHN INSTITUT) MAINZ, GERMANY.
- 530 Wanke, H., Monse, E. U.
Scintillation counting of (n, α) and neutron fission reaction as an isotopic analysis of lithium, boron and uranium.
Z. Naturforsch., **10A**, 667–669 (1955).
 (GERMAN). MAX-PLANCK INSTITUT FUR CHEMIE, MAINZ, GERMANY.
- 531 Ke, C. H., Cheng, H. S.
Activation analysis of trace impurities in aluminum.
J. Chinese Chem. Soc. (Taiwan), **12**, 39–50 (June 1965).
 (ENGLISH). NATIONAL TSING HUA UNIVERSITY, HSINCHU, TAIWAN.
- 532 Corliss, W. R.
Neutron activation analysis.
 USAEC Division of Technical Information Booklet, 27p.
 (ENGLISH). GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 533 Westermark, T., Sjostrand, B.
Activation analysis of mercury.
Intern. J. Appl. Radiation Isotopes, **9**, 1–15 (1960).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.
- 534 Westermark, T., Sjostrand, B.
Identification of gamma emitters formed by neutron activation including tables of radionuclides formed by neutron capture.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Intern. J. Appl. Radiation Isotopes*, **9**, 63–77 (1960).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.
- 535 Westermark, T., Sjostrand, B.
Activation analysis of cadmium in small biopsy samples.
Intern. J. Appl. Radiation Isotopes, **9**, 78–83 (1960).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.
- 536 Willard, J. E.
Applications of radioisotopes in chemical research and analysis.
International Conference on the Peaceful Uses of Atomic Energy, **15**, 24–31 (1955).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN.
- 537 Williams, A. I.
The determination of tin in iron and alloy steels.
Analyst, **84**, 433–436 (1959).
(ENGLISH). NATIONAL PHYSICAL LABORATORY, TEDDINGTON, MIDDLESEX, ENGLAND.
- 538 Winchester, J. W., Goldstein, M. I.
Determination of K in rocks by neutron activation.
MIT Progress Report, 29–30 (28 February 1958).
(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 539 Winteringham, F. P. W.
Estimation of bromides by an activation – exchange method.
Analyst, **75**, 627–628 (1950).
(ENGLISH). DEPT. OF SCIENTIFIC AND INDUSTRIAL RESEARCH, PEST INFESTATION LAB., SLOUGH, BUCKS, ENGLAND.
- 540 Winteringham, F. P. W.
Radioactive tracing. Part VI. Radioisotopes as an analytical tool.
Lab. Practice, **4**, 328–333 (1955).
(ENGLISH). PEST INFESTATION LAB., SLOUGH, BUCKS, ENGLAND.
- 541 Winteringham, F. P. W.
Radiochemical techniques in analysis.
Nature, **168**, 153–155 (1951).
(ENGLISH). PEST INFESTATION LAB., SLOUGH, BUCKS, ENGLAND.
- 542 Barak, A. J., Swanberg, S. C.
Determination of selenomethionine in biological sources by chromatography and neutron activation analysis.
J. Chromatography, **31**, No. 1, 282–284 (1967).
(ENGLISH). SPECIAL LABORATORY OF NUCLEAR MEDICINE AND BIOLOGY, VETERANS ADMINISTRATION HOSPITAL, OMAHA, NEBRASKA.
- 543 Winteringham, F. P. W., Harrison, A., Bridges, R. G.
Radioactive-tracer techniques in paper chromatography.
Nucleonics, **10**, No. 3, 52–57 (1952).
(ENGLISH). DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, PEST INFESTATION LABORATORY, SLOUGH, ENGLAND.
- 544 Yakovlev, Y. V., Kulak, A. I., Ryabukhin, V. A., Rytchkov, R. S.
The determination of trace impurities in pure materials by radioactivation analysis.
Second United Nations International Conference on Peaceful Uses of Atomic Energy, P/2023, 496–505 (1958).
(ENGLISH TRANSLATION). RUSSIA.
- 545 Zvyagintsev, O. E., Kulak, A. I.
Determination of gold and platinum metals in refined silver and cathode nickel by means of the radioactivation method.
J. Inorg. Chem., USSR, **2**, No. 7,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 376-384 (1957).
(ENGLISH TRANSLATION). RUSSIA.
- 546 Cuypers, M., Menon, M. P.
Determination of cerium and praseodymium in ores and minerals using 14.5 MeV neutron activation analysis.
Trans. Am. Nucl. Soc., **7**, 330-331 (1964).
(ENGLISH). USA.
- 548 Amiruddin, A.
Tungsten abundances in terrestrial and extra-terrestrial materials by neutron activation analysis.
Thesis, University of Kentucky, 145p. (1961).
(ENGLISH). UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 549 Anders, O. U.
Use of very-short-lived isotopes in activation analysis.
Anal. Chem., **33**, 1706-1709 (1961).
(ENGLISH) RADIOCHEMISTRY LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICH.
- 550 Fritze, K., Aspin, N., Holmes, T. H.
Routine determination of copper in biological materials by neutron activation.
Radiochim. Acta, **3**, No. 4, 204-206 (1964).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF MEDICAL BIOPHYSICS, UNIVERSITY OF TORONTO, ONTARIO, CANADA.
- 551 Atomes
The atomic pile - aid to justice.
Atomes, **8**, 75-80 (1953).
(FRENCH). FRANCE.
- 552 Bouten, P., Hoste, J.
Activation analysis of manganese in cast iron and high-alloy steels.
Talanta, **8**, 322-329 (1961).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE FOR
- ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, BELGIUM.
- 553 Bowen, H. J. M., Cawse, P. A.
Determination of sodium, potassium and phosphorus in biological material by radioactivation.
Analyst, **86**, 506-512 (1961).
(ENGLISH). UKAEA, WANTAGE RESEARCH LABORATORY, WANTAGE, BERKS, ENGLAND.
- 554 Brownell, G. M.
A beryllium detector for field exploration.
Economic Geology, **54**, 1103-1114 (1959).
(ENGLISH). DEPARTMENT OF GEOLOGY, UNIVERSITY OF MANITOBA, WINNIPEG, CANADA.
- 555 Brownell, G. M., Bramadat, K., Knutson, R. A., Turnock, A. C.
Induced radiation analysis for silicon, aluminum and sodium in igneous rocks.
Trans. Royal Soc. of Canada, **51**, 19-31 (1957).
(ENGLISH). CANADA.
- 556 Burrill, E. A.
Neutron activation analysis data.
TSI-600, 24p. (1960).
(ENGLISH). HIGH VOLTAGE ENG. CORP., BURLINGTON, MASS.
- 557 Burrill, E. A., Hirschfield, J.
Activation analysis for materials testing and research.
High Voltage Engineering Corp. Report, 9p. (1961).
(ENGLISH). HIGH VOLTAGE ENG. CORP., BURLINGTON, MASS.
- 558 Bussiere, P.
Radioactivation analysis.
Chimie Moderne, **6**, 207-217 (1961).
(FRENCH). INSTITUT DE RECHERCHES SUR LA CATALYSE DU CNRS, VILLEURBANNE, FRANCE.
- 559 Chemical and Engineering News
Carbide offers analysis service using neutrons.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Chem. and Eng. News*, **30**, 3306 (1952).
(ENGLISH). USA.
- 560 Widell, M., Westermark, T.
Determination of copper in submicrogram quantities by neutron activation analysis.
Atompraxis, **7**, 201–206 (1961).
(ENGLISH). ROYAL INST. OF TECH., STOCKHOLM, SWEDEN.
- 561 Emeleus, V. M., Simpson, G.
Neutron activation analysis of ancient Roman potsherds.
Nature, **185**, 196 (1960).
(ENGLISH). RESEARCH LABORATORY FOR ARCHAEOLOGY AND THE HISTORY OF ART, OXFORD.
- 562 Fineman, I., Ljunggren, K., Forsberg, H. G., Erwall, L. G.
Activation analysis for selenium in ore concentrates, slags and waste gases obtained in a metallurgical industry.
Intern. J. Appl. Rad. and Isotopes, **5**, 280–288 (1959).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.
- 563 Fireman, E. L.
Distribution of helium-3 in the Carbo meteorite.
Nature, **181**, 1725 (1958).
(ENGLISH). SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASS.
- 564 Fisher, C., Beydon, J.
Determination of manganese, sodium and uranium by induced radioactivity.
Bull. Soc. Chim. France, C102–C103 (1953).
(FRENCH). COMMISSARIAT A L'ENERGIE ATOMIQUE, FRANCE.
- 565 Forshufvud, S., Smith, H., Wassen, A.
Arsenic content of Napoleon I's hair probably taken immediately after his death.
Nature, **192**, 103–105 (1961).
(ENGLISH). VASAGATAN 33, GÖTEBORG C, SWEDEN AND DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW.
- 566 General Dynamics Corporation
Activation analysis service.
General Dynamics Corp.
Miscellaneous Bulletins.
(ENGLISH). GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 567 Gray, F. B.
Use of a portable neutron generator in industrial analyses.
Kaman Nuclear Co. Technical Report, 9–18 (1960).
(ENGLISH). KAMAN NUCLEAR CO., COLORADO SPRINGS, COLORADO.
- 568 Guinn, V. P.
Neutron activation analysis.
Intern. Sci. and Technology, 6p. (August 1961).
(ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 569 Guinn, V. P.
Instrumental neutron activation for rapid, economical analysis.
Nucleonics, **19**, No.8, 81–84 (1961).
(ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 570 Kellershohn, C., Comar, D., Le Poec, C.
Determination of the mercury content of human blood by activation analysis.
J. Lab. Clin. Med., **66**, 168–176 (July 1965).
(ENGLISH). ORSAY, FRANCE.
- 571 Hamaguchi, H., Kuroda, R., Hosohara, K.
Neutron activation analysis of mercury, copper and arsenic in marine organisms.
J. Atomic Energy Soc. Japan, **2**, 317–320 (1960).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(JAPANESE) (ENGLISH SUMMARY).
JAPAN.

February 15, 1965.
(ENGLISH). GENERAL DYNAMICS, SAN
DIEGO, CALIFORNIA.

572 Hamaguchi, H., Tomura, K.,
Watanabe, K., Yasunaga, T.,
Kuroda, R., Osawa, M., Onuma, N.,
Hosohara, K., Endo, T.
**Values for trace elements in G-1
and W-1 with neutron activation
analysis.**
Geochim. Cosmochim. Acta, **23**,
296-299 (1961).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
TOKYO UNIVERSITY OF EDUCATION,
KOISHIKAWA, TOKYO JAPAN.

573 Fineman, I., Ljunggren, K.,
Erwall, L. G., Westermarck, T.
**Scintillation spectrometry applied
to activation analysis with
regard to copper and manganese.**
Svensk Papperstidning, **60**, No. 4,
132-134 (1957).

(ENGLISH) (SWEDISH AND GERMAN
SUMMARIES). DIVISION OF PHYSICAL
CHEMISTRY, ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

574 Fite, L. E., Gibbons, D.,
Wainerdi, R. E.
**Computer coupled automatic
activation analysis.**
TEES-2671-1, Category No. UC-23,
100p. (May 1961).

(ENGLISH). TEXAS ENGINEERING
EXPERIMENT STATION, A AND M
COLLEGE OF TEXAS, COLLEGE
STATION, TEXAS.

575 Hamaguchi, H., Kuroda, R.,
Shimizu, T., Sugishita, R.,
Tsukahara, I., Yamamoto, R.
**Neutron activation analysis of
molybdenum, tin, tantalum and
tungsten in silicates.**
J. Atomic Energy Soc. Japan, **3**,
800-805 (1961).

(JAPANESE) (ENGLISH SUMMARY).
JAPAN.

576 General Dynamics Corporation
**Activation analysis service. Short
courses.**
General Dynamics letter of

577 General Dynamics Corporation
**Activation analysis service.
Detect counterfeiting of
proprietary goods.**
General Dynamics Press Release,
1p.

(ENGLISH). GENERAL DYNAMICS, P.O.
BOX 608, SAN DIEGO, CALIF.

578 Engelmann, C.
**On the utilization of particles
for the determination of oxygen
and carbon.**

Compt. Rend., **258**, 4279-4281
(1964).

(FRENCH). FRANCE.

579 Bigliocca, C., Girardi, F., Pauly,
J.

**Application of electrochemical
methods to neutron activation
analysis.**

EUR-2165.I, 15p. (February 1965).
(ENGLISH SUMMARY). CENTRO COMUNE
DI RICERCA NUCLEARE STABILIMENTO
DI ISPRA, ITALY.

580 Caldwell, R. L.
**Activation analysis in petroleum
exploration research.**
*High Voltage Engineering
Corporation Accelerator
Conference, October 1958*,
C-1-C-14 (1958).

(ENGLISH). MAGNOLIA PETROLEUM
CO., FIELD RESEARCH LABORATORY,
DALLAS, TEXAS.

581 Hoste, J., Bouten, F., Adams, F.
**Minor-constituent analysis with
neutron activation.**
Nucleonics, **19**, No. 3, 118-123
(1961).

(ENGLISH). GHENT UNIVERSITY,
GHENT, BELGIUM.

582 Isotopics
Neutron activation analysis.
Isotopics, **2**, No. 2, 4-5 (1952),

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 3, No. 1, 1 (1953).
(ENGLISH). USA.
- 583 James, J. A.
Determination of trace elements in semi-conducting materials using radiochemical and mass spectrometric methods.
Proceedings International Symposium Microchemistry, Birmingham 1958, 319-324, Pergamon, London (1960).
(ENGLISH). RESEARCH LABORATORY, THE BRITISH THOMSON HOUSTON CO. LTD., RUGBY, ENGLAND.
- 584 Jervis, R. E.
Neutron activation analysis.
Chemistry in Canada, 27-31 (March 1956).
(ENGLISH). DEVELOPMENT CHEMISTRY BRANCH, ATOMIC ENERGY OF CANADA LIMITED, CHALK RIVER, CANADA.
- 585 Kawashima, T., Osawa, M., Mochizuki, Y., Hamaguchi, H.
Determination of lanthanum, samarium and europium in manganese nodules by neutron activation.
Bull. Chem. Soc. Japan, 34, 701-705 (1961).
(ENGLISH). DEPARTMENT OF CHEMISTRY, TOKYO UNIVERSITY OF EDUCATION, KOISHIKAWA, TOKYO, JAPAN.
- 586 Rona, E., Hood, D. W., Muse, L., Buglio, B.
Activation analysis of manganese and zinc in sea water.
Limnology and Oceanography, 7, 201-206 (1962).
(ENGLISH). OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, OAK RIDGE, TENN.
- 587 Kemp, D. M., Smales, A. A.
The determination of scandium in rocks and meteorites by neutron-activation analysis.
AERE-3236, 11p. (1960).
(ENGLISH). CHEMISTRY DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.
- 588 Koch, R. C., Roesmer, J.
Application of activation analysis to the determination of trace element concentrations in meat.
Technical Report NSEC-56, 34p. (December 1961).
(ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORP., PITTSBURGH, PENNSYLVANIA.
- 589 Kusaka, Y.
Activation analysis of silver using radium plus beryllium neutron source.
Bunseki Kagaku, 8, 111-116 (1959).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, JAPAN.
- 590 Kuykendall, W. E., Wainerdi, R. E.
Computer techniques for radioactivation analysis. Annual report May 1, 1960.
TEES-2565-1, 127p. (May 1960).
(ENGLISH). TEXAS ENGINEERING EXPERIMENT STATION, TEXAS A AND M COLLEGE, COLLEGE STATION, TEXAS.
- 591 Lbov, A. A., Naumova, I. I.
Radioactivation analysis using 14 MeV neutrons.
Atomic Energy, USSR, 6, No. 4, 330-331 (1959).
(ENGLISH TRANSLATION). RUSSIA.
- 592 Fleishman, D. M., Guinn, V. P.
The determination of trace levels of selenium in biological samples by neutron activation analysis including minimization of interferences with 17.5-second selenium-77m.
Trans. Am. Nucl. Soc., 7, 327-328 (1964).
(ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIF.
- 593 Lenihan, J. M. A.
Plato or Paracelsus: The physicist's dilemma.
Bull. Inst. Phys. and Phys. Soc., 285-288 (October 1961).
(ENGLISH). REGIONAL PHYSICIST, WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 594 Ljunggren, K.
The use of a fast–slow three–channel coincidence spectrometer for the determination of positron and gamma–ray cascade–emitting nuclides in activation analysis, with examples.
Radioactivation Analysis, 31–34, Proceedings Symposium 1959, Vienna, International Atomic Energy Agency (1960).
 (ENGLISH). ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN. 668–672 (1967).
 (ENGLISH). GENERAL DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 595 Loveridge, B. A., Webster, R. K., Morgan, J. W., Thomas, A. M., Smales, A. A.
The determination of strontium in rocks and biological materials.
Anal. Chim. Acta, 23, 154–171 (1960).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). AERE, HARWELL, ENGLAND.
- 596 Mc Crary, J. H., Morgan, I. L., Baggerly, L. L.
Neutron activation analysis of oxygen in beryllium.
Modern Trends in Activation Analysis, 24–27, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
 (ENGLISH). TEXAS NUCLEAR CORP., AUSTIN, TEXAS.
- 597 Mapper, D.
Neutron activation analysis as an analytical tool.
Chimia, 14, 241–248 (1960).
 (ENGLISH) (GERMAN SUMMARY). ANALYTICAL CHEMISTRY BRANCH, AERE, HARWELL, ENGLAND.
- 598 General Dynamics Corporation
Vanadium determinations.
 General Dynamics Press Release, 1p.
 (ENGLISH). GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.
- 599 Lukens, H. R.
Neutron activation analysis.
J. Chem. Educ., 44, No. 11, 600 Morris, D. F. C., Fifield, F. W.
Rhenium contents of rocks.
Geochim. Cosmochim. Acta, 25, 232–233 (1961).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE OF TECHNOLOGY, LONDON, W.3, ENGLAND.
- 601 Morris, D. F. C., Killick, R. A.
The determination of traces of gold in samples of platinum by neutron–activation analysis.
Talanta, 8, 793–797 (1961).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE OF TECHNOLOGY, LONDON, W.3, ENGLAND.
- 602 Nozaki, T., Kawashima, T., Baba, H., Araki, H.
Neutron activation analysis of halogens in high–purity silicon.
Bull. Chem. Soc. Japan, 33, 1428–1430 (1960).
 (ENGLISH). THE ELECTRICAL COMMUNICATION LABORATORY, MUSASHINO, TOKYO, JAPAN.
- 603 Okada, M.
Simple estimation of radioactivity due to neutron irradiation.
J. Chem. Soc. Japan, Pure Chem. Soc., 80, No. 1, 1–4 (1959).
 (JAPANESE). TOKYO INDUSTRIAL RESEARCH INSTITUTE, TOKYO, JAPAN.
- 604 Okada, M., Kamemoto, Y., Shiba, K., Handa, M.
Simultaneous determination of scandium and dysprosium.
Nippon Kagaku Zasshi, 82, 845–847 (1961).
 (JAPANESE) (ENGLISH SUMMARY). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO SHIBUYAKU, TOKYO, JAPAN.
- 605 Nakai, T., Okada, M.
Micro determination of aluminum in

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- polyethylene by neutron activation followed by gamma-ray spectrometry.
Isotopes and Radiation, **4**, No. 1, 66-67 (1961).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, NAKA-GUN, IBARAKI, JAPAN.
- 606 Nakai, T., Yajima, S., Fujii, I., Okada, M.
Activation analysis of impurities in silicon for semiconductor material.
Japan Analyst, **8**, 367-372 (1959).
(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.
- 607 Nakai, T., Yajima, S., Okada, M., Shiba, K., Moki, T.
Activation analysis by short-lived nuclide. II. Simultaneous determination of vanadium and aluminum in graphite. III. Determination of selenium by Se^{77m} .
Nippon Kagaku Zasshi, **81**, 104-109 (1960).
(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, NAKA-GUN, IBARAKI, JAPAN.
- 608 Nakai, T., Yajima, S., Okada, M., Kamemoto, Y., Shiba, K.
Activation analysis by short-lived nuclides. IV. Determination of silver by silver-110.
Nippon Kagaku Zasshi, **81**, 1422-1424 (1960).
(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, NAKA-GUN, IBARAKI, JAPAN.
- 609 Gilat, J., Gurfinkel, Y.
Self-shielding in activation analysis.
Nucleonics, **21**, No. 8, 143-144 (1963).
(ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, REHOVOTH, ISRAEL.
- 610 Overman, R. T., Clark, H. M.
Analysis by radioactivation. Experiment 10-4.
Radioisotope Techniques, 426-428, McGraw Hill, New York (1960).
(ENGLISH). USA.
- 611 General Dynamics Corporation
Typical applications of activation analysis.
General Atomic's Bulletins.
(ENGLISH). GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 612 Tatar, J., Beress, M.
Neutron-activation analysis of bauxites and coals with portable neutron-sources.
Nuclear Geophysics, **II**, 459-481 (1963).
(ENGLISH) (POLISH AND RUSSIAN SUMMARIES). ROLAND EOTVOS STATE GEOPHYSICAL INSTITUTE, BUDAPEST, HUNGARY.
- 613 Schmitt, R. A.
Neutron-activation research. GA-2433, 35p. (August 1, 1961).
(ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 614 Schutz, D. F., Turekian, K. K.
The investigation of the geographical and vertical distribution of several trace elements in sea water using neutron activation analysis.
Geochim. Cosmochim. Acta, **29**, 259-313 (1965).
(ENGLISH). DEPARTMENT OF GEOLOGY, YALE UNIVERSITY, NEW HAVEN, CONN.
- 615 Smales, A. A., Ferrett, D. J.
The use of radioactive and stable isotopes in industrial analytical problems.
Proceedings of the Congress on Modern Analytical Chemistry in Industry, St. Andrews, June 24-28, 1957, 181-185, W. Heffer and Sons Ltd., Cambridge, England (1957).
(ENGLISH). ANALYTICAL CHEMISTRY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

GROUP, AERE, HARWELL, DIDCOT,
BERKS, ENGLAND.

616 Smales, A. A., Wiseman, J. D. H.

**Origin of nickel in deep-sea
sediments.**

Nature, **175**, 464–465 (1955).

(ENGLISH). AERE, HARWELL, BERKS,
ENGLAND.

617 Hudgens, J. E.

**Analytical applications of
radiochemical techniques.**

Anal. Chem., **24**, 1704–1708 (1952).

(ENGLISH). USAEC, NEW BRUNSWICK,
N.J.

618 Texas Nuclear Corporation

**Table of cross sections for fast
neutron reactions.**

Texas Nuclear Report, 9p. (1960).

(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.

619 Zuber, K.

**Neutron activation analysis of
Roman copper coins from 250–500
A. D. Part I.**

CNAEM-21 (Pt. 1), 34p. (January
1965).

(ENGLISH). TURKEY. AEC. CEKMECE
NUCL. RES. CTR., ISTANBUL.

620 Westermark, T., Fineman, I.

**A rapid method for the
determination of cobalt in
reactor steel by activation
analysis.**

Second United Nations

*International Conference on the
Peaceful Uses of Atomic Energy*,
28, P/140, 506–510 (1958).

(ENGLISH). DIVISION OF PHYSICAL
CHEMISTRY, THE ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

621 Gorski, L., Kusch, W., Wojtkowska,
J.

**Fast-neutron-activation analysis
for determination of copper
content of lower Silesian copper
deposits.**

Talanta, **11**, 1135–1142 (1964).

(ENGLISH) (GERMAN AND FRENCH

SUMMARIES). INSTITUTE OF
RADIOISOTOPE TECHNIQUES, ACADEMY
OF MINING AND METALLURGY, CRACOW,
POLAND.

622 Green, D. E., Heslop, J. A. B.,
Whitley, J. E.

**The determination of silicon, zinc
and magnesium in gallium arsenide
by neutron-activation analysis.**

Analyst, **88**, 522–528 (1963).

(ENGLISH). AEI, RESEARCH
LABORATORY, ALDERMASTON COURT,
BERKS, ENGLAND.

623 Winchester, J. W.

**A progress report on the use of 15
MeV deuterons for the
determination of carbon, oxygen,
and silicon in solid materials by
radioactivation analysis.**

NP-9482, 27p. (October 26, 1960).

(ENGLISH). MASS. INST. OF TECH.,
CAMBRIDGE.

624 Gadda, F.

**A bibliographic search on
radioactivation analysis.**

Centro Informazioni Studi
Esperienze, Milan Report No. 83,
72p. (January 1961).

(ENGLISH). LABORATORY OF
RADIOCHEMISTRY, C.I.S.E. MILAN,
ITALY.

625 Bate, L. C.

**The use of activation analysis in
procedures for the removal and
characterization of the surface
contaminants of hair.**

J. Forensic Sci., **10**, 60–72 (Jan.
1965).

(ENGLISH). OAK RIDGE TENNESSEE

626 Gibbons, D., Mapper, D., Millett,
R. J., Simpson, H.

**Radioactivation analysis – a
bibliography. First supplement.**

AERE I/R 2208 (Supplement 1), 34p.
(1960).

(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 627 Bock-Werthmann, W., Schulze, W.
Activation analysis (bibliography).
 AED-C-14-1, 272p. (December 1961).
 (GERMAN). HAHN-MEITNER INSTITUT
 FÜR KERNFORSCHUNG BERLIN,
 BERLIN-WANNSEE, GLIENICKER
 STRASSE, GERMANY. JLI-650-6-3, 107-116 (May 1960).
 (ENGLISH). WILLIAM H. JOHNSTON
 LABORATORIES, INC., BALTIMORE,
 MARYLAND.
- 628 Kusaka, Y., Tsuji, H.
**Determination of silicon in iron
 and steel by nondestructive
 activation analysis with 14 MeV
 neutrons.**
Nippon Kagaku Zasshi, **86**, 733-736
 (July 1965).
 (JAPANESE) (ENGLISH SUMMARY).
 KONAN UNIVERSITY, DEPARTMENT OF
 CHEMISTRY, HIGASHINADA-KU,
 KOBE-SHI, JAPAN.
- 629 Veal, D. J.
**Oxygen yields to activation
 analysis.**
Chem. and Eng. News, **11**, 58-59
 (1960).
 (ENGLISH). PHILLIPS PETROLEUM,
 BARTLESVILLE, OKLA.
- 630 Juliano, J. O.
**Radioisotope production and
 activation analysis programs of
 the Philippine Atomic Research
 Center.**
 Preprint IAEA Study Group Meeting
 on Utilization of Research
 Reactors, Manila, 13p. (December
 1963).
 (ENGLISH). PHILIPPINE ATOMIC
 RESEARCH CENTER, MANILA.
- 631 Kaminishi, T., Kojima, C.
**Production of nuclear isomers from
 stable nuclides with
 bremsstrahlung.**
Japan J. Appl. Physics, **2**, 399-405
 (1963).
 (ENGLISH). GOVERNMENT INDUSTRIAL
 RESEARCH INSTITUTE, NAGOYA,
 JAPAN.
- 632 Johnston, W. H.
**The development of principles and
 methods of high dilution
 on-stream isotopic tracers (in
 situ tracer project).**
- 633 Bujdoso, E., Toth, L.
Activation analysis. Bibliography.
*A MTA Kozponti Fizikai Kutato
 Intezete*, **3**, 81p. (March 1961).
 (HUNGARIAN). FEMIPARI KUTATO
 INTEZET, BUDAPEST, HUNGARY.
- 634 Greendale, A. E., Love, D. L.,
 Delucchi, A. A.
**A rapid iodine radiochemical
 procedure.**
Trans. Am. Nucl. Soc., **7**, 334-335
 (1964).
 (ENGLISH). US
 NAVAL RADIOLOGICAL
 DEFENSE LABORATORY,
 SAN FRANCISCO, CALIF.
- 635 Anders, O. U., Beamer, W. H.
**Neutron activation analysis with
 the Van de Graaff accelerator and
 gamma ray spectrometry.**
 Preprint, 6p.
 (ENGLISH). DOW CHEMICAL CO.,
 MIDLAND, MICH.
- 636 Kim, C. K., Silverman, J.
**Determination of mercury in wheat
 and tobacco leaf by neutron
 activation using mercury-197 and
 a simple exchange separation.**
Anal. Chem., **37**, No. 12, 1616-1617
 (November 1965).
 (ENGLISH). DEPARTMENT OF
 CHEMICAL ENGINEERING, UNIVERSITY
 OF MARYLAND, COLLEGE PARK,
 MARYLAND.
- 637 Laverlochere, J.
**Activation analysis of impurities
 in Be.**
 Commissariat a l'Energie Atomique,
 CEN SACLAY Letter SRMPC/3041 Ld,
 5p. (29 April 1964).
 (ENGLISH). CENTRE D'ETUDES
 NUCLEAIRES DE SACLAY, FRANCE.
- 638 Lenihan, J. M. A.
**Activation analysis in medicine
 and biochemistry.**
Nature, **200**, 637-639 (1963).
 (ENGLISH). REGIONAL PHYSICS

ACTIVATION ANALYSIS—ACCESSION NUMBERS

DEPARTMENT, WESTERN REGIONAL
HOSPITAL BOARD, GLASGOW,
SCOTLAND.

power.
Aerojet General, 3p.
(ENGLISH). USA.

- 639 Godar, S.
Study of accelerator particles, transportable type, used as sources of neutrons. I. Introduction. II. Applications to the qualitative and quantitative analysis.
CEA No. 345, 70p. (1962).
(FRENCH). STAGIAIRE, EURATOM, FRANCE.
- 640 Mullins, W. T., Emery, J. F.,
Bate, L. C., Leddicotte, G. W.
The determination of minor elements in ultrapure beryllium and its compounds by neutron radioactivation analysis.
TID-7629, 245-257 (October 1961).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 641 Emery, J. F., Mullins, W. T.,
Bate, L. C., Leddicotte, G. W.
Trace element determination in niobium and zirconium metal by radioactivation analysis.
TID-7629, 239-243 (October 1961).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 642 Gibbons, D., Fite, L. E.,
Wainerdi, R. E.
Computer-coupled, automatic activation analysis.
TID-7629, 221-238 (October 1961).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, COLLEGE STATION, TEXAS.
- 643 Koch, R. C.
Activation analysis handbook.
Activation Analysis Handbook, Vol. I, 219p., Academic Press, New York (1960).
(ENGLISH). USA.
- 644 Aerojet-General
Isotope activation capabilities of the AGN-201 reactor at 5 watts
- 645 Daudel, R.
Use of radioactive indicators. B. Method for direct activation.
La Radioactivite, 119-134, Presses Universitaires de France, Paris (1955).
(FRENCH). FRANCE.
- 646 Radiation Counter Laboratories
Neutron activation analysis with 14.1 MeV neutrons using the RCL neutron activator.
Radiation Counter Laboratories Trade Journal, 2p.
(ENGLISH). RADIATION COUNTER LABORATORIES, SKOKIE, ILLINOIS.
- 647 High Voltage Engineering Corp.
The place of the particle accelerator in basic research. Neutron activation analysis. XI.
Science, 128, 868 (1958).
(ENGLISH). HIGH VOLTAGE ENGINEERING CORPORATION, BURLINGTON, MASS.
- 648 Bethard, W. F., Schmitt, R. A.
Neutron activation analysis can be used for ultrasensitive analysis of blood.
Chem. and Eng. News, 45 (July 3, 1961).
(ENGLISH). GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 649 Hubner, U.
The accuracy of estimations of copper, arsenic, and antimony by means of the photopeak decay curve of the gamma-ray spectrum.
Isotopen Tech., 2, 335-336 (1962).
(GERMAN). GERMANY.
- 650 Nucleonics
Activation analysis: 1962 finds it in a state of rapid growth.
Nucleonics, 20, No. 3, 54-59 (1962).
(ENGLISH). MCGRAW-HILL BOOK CO., NEW YORK, N.Y.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 651 Smith, H.
Estimation of manganese in biological material by neutron activation analysis.
Anal. Chem., **34**, 190-191 (1962).
 (ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW, SCOTLAND.
- 652 Kruger, P., Gruverman, I. J.
Neutron activation analysis of homogenized chicken.
Intern. J. Appl. Rad. and Isotopes, **13**, 106-110 (1962).
 (ENGLISH). NUCLEAR SCIENCE AND ENG. CORP., PITTSBURGH, PA.
- 653 Forro Universal
Forro Universal isotope analyser for neutron activation analysis. Forro beta-gamma coincidence analyser for neutron activation analysis.
 Forro Scientific Co. Literature, 6p.
 (ENGLISH). FORRO SCIENTIFIC CO., EVANSTON, ILLINOIS.
- 654 Winchester, J. W., Meyer, R. E., Bate, L. C., Leddicotte, G. W.
Determination of oxygen in oxide films by neutron activation analysis.
 CF-59-7-128, 6p. (July 15, 1959).
 (ENGLISH). OAK RIDGE NATIONAL LAB., OAK RIDGE, TENN.
- 655 Leonhardt, W.
Determination of surface oxygen on metals by activation in the reactor.
Anal. Chim. Acta, **32**, 355-369 (1965).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). ZENTRALINSTITUT FUR KERNFORSCHUNG, ROSSENDORF (D.D.R.).
- 656 Lovering, J. F., Morgan, J. W.
Comparative uranium and thorium analyses of basic and ultra-basic rocks.
Nature, **199**, 479-480 (1963).
 (ENGLISH). DEPARTMENT OF GEOPHYSICS, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA.
- 657 Lowman, J. T., Krivit, W.
Activation analysis: A new stable isotope method for tracer studies.
Univ. Minn. Med. Bull., **33**, 203-213 (1962).
 (ENGLISH). UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA.
- 658 Kaman Nuclear
A study for a neutron activation analysis system for analyzing lunar surface materials.
 Kaman Nuclear Final Report, 37p. (December 23, 1960).
 (ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 659 Lukens, H. R., Yule, H. P., Guinn, V. P.
Reactor pulsing in activation analysis.
Nucl. Instr. Methods, **33**, 273-276 (1963).
 (ENGLISH). GENERAL ATOMIC DIVISION. GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 660 Dow Chemical Company
Atomic tools for the chemist.
 Dow Chemical Co. Brochure, 5p.
 (ENGLISH). DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 661 Oak Ridge National Laboratory
Carbide offers analysis service using neutrons.
Chem. and Eng. News, **30**, 3306 (1952).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 662 Yakovlev, Y. V., Kulak, A. I., Ryabukhin, V. A., Rytchkov, R. S.
The determination of trace impurities in pure materials by the radioactivation analysis.
Progress in Nuclear Energy Series IX, Vol. I, 145-162, Analytical Chemistry, Pergamon Press (1959).
 (ENGLISH TRANSLATION). RUSSIA.
- 663 General Dynamics Corporation
Activation analysis. Participant

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- program.**
General Dynamics Brochure, 9p.
(ENGLISH). GENERAL DYNAMICS,
GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.
- 664 Guzzi, L., Kiss, I.
**The application of radioisotopes
in the food industry and food
research.**
Elem. Ipar, 16, 240-243 (Aug.
1962).
(HUNGARIAN) (RUSSIAN, GERMAN AND
ENGLISH SUMMARIES). ORSZ.
ATOMENERGIA BIZOTTSAG ISOTOP
INTEZET ES KOZP. ELEMISZERIPARI
KUATO INTEZET, HUNGARY.
- 665 Greenwood, R. C., Reed, J. H.,
Stone, C. A.
**Nuclear method for a rapid
analysis of iron ore.**
Trans. Am. Nucl. Soc., 4, 245-246
(1961).
(ENGLISH). ARMOUR RESEARCH
FOUNDATION, CHICAGO, ILLINOIS.
- 666 Meinke, W. W.
Activation analysis.
Chemistry, 35, No. 6, 1-6 (1962).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICH.
- 667 Massachusetts Institute of
Technology
General radiobiology.
MIT-952-1, 150-162.
(ENGLISH). MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.
- 668 Hazleton Nuclear Science
Corporation
Activation analysis sensitivities.
Hazleton Nuclear Science
Corporation Literature, 5p.
(ENGLISH). HAZLETON NUCLEAR
SCIENCE CORPORATION, PALO ALTO,
CALIF.
- 669 Dibbs, H. P.
**Determination of beryllium by
gamma-ray activation.**
- Mines Branch Technical Bulletin TB
33, 14p. (March 1962).
(ENGLISH). MINERAL SCIENCES
DIVISION, DEPARTMENT OF MINES AND
TECHNICAL SURVEYS, OTTAWA,
CANADA.
- 670 Woodman, F. J.
**The determination of argon in
carbon dioxide by radioactivation
analysis.**
UKAEA Tech. Memo. 289, 7p.
(7/9/54).
(ENGLISH). CHEMICAL SERVICES
DEPARTMENT, WINDSCALE, ENGLAND.
- 671 Texas A and M University
**Weights which will give measurable
activity at given times after
irradiation for 80 hours at 10^{12}
n/cm²-sec.**
Texas A and M Literature, 2p.
(ENGLISH). TEXAS A AND M
ACTIVATION ANALYSIS RESEARCH
LABORATORY, COLLEGE STATION,
TEXAS.
- 672 Chemical and Engineering News
**Activation analysis gains
momentum.**
Chem. and Eng. News, 62-63
(November 14, 1960).
(ENGLISH). USA.
- 673 Mc Pherson, D.
**Stable Ca⁴⁸ as a tracer in studies
of mineral metabolism in man.**
STI-DOC/10/32, 17-20 (1964).
(ENGLISH). MEDICAL RESEARCH
COUNCIL OF CANADA.
- 674 Zvyagintsev, O. E., Shamaev, V. I.
**The application of radioactivation
analysis for determining
micro-impurities in tellurium**
Radiochemistry, 1, No. 2, 301-309
(1960).
(ENGLISH TRANSLATION). RUSSIA.
- 675 Nixon, G. S., Smith, H.
**Estimation of copper in human
enamel by activation analysis.**
J. Dental Research, 41, No. 5,
1013-1016 (1962).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). UNIVERSITY OF GLASGOW
DENTAL SCHOOL, GLASGOW, SCOTLAND.
- 676 Koch, R. C., Roesmer, J.
**Application of activation analysis
to the determination of
trace-element concentrations in
meat.**
J. Food Sci., 27, No. 3, 309–320
(1962).
(ENGLISH). NUCLEAR SCIENCE AND
ENGINEERING CORPORATION,
PITTSBURGH, PENNSYLVANIA.
- 677 Meshri, D. T., Shah, S. D.,
Halder, B. C.
**Determination of rhenium in Indian
columbite by neutron activation
analysis.**
Indian J. Appl. Chem., 26, No.
1–2, 1–3 (1963).
(ENGLISH). CHEMISTRY DEPARTMENT,
GUJARAT COLLEGE, AHMEDABAD AND
INORGANIC CHEMISTRY LABORATORY,
INSTITUTE OF SCIENCE, BOMBAY.
- 678 Gillespie, A. S., Hill, W. W.
**Sensitivities for activation
analysis with 14-MeV neutrons.**
Nucleonics, 19, No. 11, 170–173
(1961).
(ENGLISH). ALCOA RESEARCH
LABORATORIES, ALUMINUM COMPANY OF
AMERICA, NEW KENSINGTON, PA.
- 679 Tittle, C. W.
**Quantitative and qualitative
analysis through neutron
activation.**
Nuclear Chicago Technical Bulletin
No. 10, 6p. (1961).
(ENGLISH). NUCLEAR-CHICAGO CORP.,
DES PLAINES, ILLINOIS.
- 680 Texas Nuclear Corporation
Activation analysis brochures.
Nuclear Chicago Corporation
Brochures, 6p.
(ENGLISH). TEXAS NUCLEAR
CORPORATION.
- 681 Cook, G. B.
**Radioactivation analysis in a
nuclear reactor.**
Pure and Appl. Chem., 1, 15–30
(1960).
(ENGLISH) (FRENCH SUMMARY).
ISOTOPE AND RESEARCH DIVISION,
AERE, HARWELL, ENGLAND.
- 682 Ljunggren, K.
**Spectrometer for the determination
of positron and gamma-ray
cascade-emitting nuclides.**
Pure and Appl. Chem., 1, 31–34
(1960).
(ENGLISH) (FRENCH SUMMARY).
ROYAL INSTITUTE OF TECHNOLOGY,
STOCKHOLM, SWEDEN.
- 683 Herr, W.
**Neutron activation applied to
geochemistry.**
Pure and Appl. Chem., 1, 35–52
(1960).
(ENGLISH) (FRENCH SUMMARY).
MAX-PLANCK INSTITUT FUR CHEMIE,
MAINZ, INSTITUT FUR KERNCHEMIE
DER UNIVERSITAT, KOLN, GERMANY.
- 684 Krauch, H.
**Problems posed by utilization of
nuclear energy in the chemical
industry.**
CEA-TR-A1308 (Translated from
Chemiker Ztg., 84, 523–527
(August 1960)), 17p. (with
original 5p.) (1963).
(FRENCH TRANSLATION).
HEIDELBERG, GERMANY.
- 685 Leddicotte, G. W.
**Experience in the U. S. A. on the
use of radioactivation analysis.**
Pure and Appl. Chem., 1, 61–80
(1960).
(ENGLISH) (FRENCH SUMMARY). OAK
RIDGE NATIONAL LABORATORY, OAK
RIDGE, TENN.
- 686 Grimanis, A. P., Pantazis, G.,
Papadopoulos, C., Tsanos, N. A.
**Determination of trace elements in
the Greek lakes by neutron
activation analysis.**
*Third United Nations International
Conference on the Peaceful Uses
of Atomic Energy, A/CONF.28/P/854*
Greece, 14p. (May 1964).

ACTIVATION ANALYSIS – ACCESSION NUMBERS

(ENGLISH) NUCLEAR RESEARCH CENTER
DEMOCRITUS, CHEMISTRY AND BIOLOGY
DIVISIONS, GREECE.

687 Hoste, J.

**Activation analysis of minor
constituents in high alloy
steels.**

Pure and Appl. Chem., **1**, 99–110
(1960).

(ENGLISH) (FRENCH SUMMARY).

LABORATORY OF ANALYTICAL
CHEMISTRY, UNIVERSITY OF GHENT,
BELGIUM.

688 Albert, P.

**Systematic analysis of impurities
in zone refined aluminum and iron
by irradiation in the atomic
pile.**

Pure and Appl. Chem., **1**, 111–119
(1960).

(FRENCH) (ENGLISH SUMMARY).

C.N.R.S., 15 RUE G. URBAIN,
VITRY, SEINE, FRANCE.

689 Leliaert, G.

**Determination of trace element
diffusion in quartz and in
germanium.**

Pure and Appl. Chem., **1**, 121–126
(1960).

(ENGLISH) (FRENCH SUMMARY).

CENTRE FOR NUCLEAR ENERGY, MOL,
BELGIUM.

690 Haerdi, W., Martin, E., Monnier,
D.

**Radiochemical analysis by
activation with thermal neutrons.
Direct determination of vanadium
in an 18/8 stainless steel, by
measuring the activity of
vanadium-52 (half-life 3.76
minutes).**

Helv. Chim. Acta, **46**, 1572–1580
(1963).

(FRENCH). LABORATOIRE DE CHIMIE
ANALYTIQUE, DE L'UNIVERSITE DE
GENEVE.

691 Hoste, J.

**Determination of traces by
activation analysis.**

Chem. Weekblad, **58**, 106–111

(1962).

(DUTCH). INSTITUUT VOOR
ANALYTISCHE CHEMIE,
RIJKSUNIVERSITEIT GENT.

692 Benson, P. A., Holland, W. D.,
Smith, R. H.

**The determination of iron and
uranium in high purity lead foil
by neutron activation analysis.**

*Modern Trends in Activation
Analysis*, 7–11, Proceedings 1961
International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). TRACERLAB, RICHMOND,
CALIF.

693 Morgan, W. R.

**Absolute disintegration rates by
gamma ray spectroscopy and
computer analysis.**

*Modern Trends in Activation
Analysis*, 16–18, Proceedings 1961
International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). GENERAL ELECTRIC CO.,
ATOMIC POWER EQUIPMENT
DEPARTMENT, VALLECITOS ATOMIC
LABORATORY, PLEASANTON, CALIF.

694 Schonfeld, T., Broda, E.

**The applications of radioactivity
in chemical analysis.**

Atompraxis, **3**, 77–80 (1957).

(GERMAN). INSTITUT DER
UNIVERSITAT WIEN.

695 Oshry, H. I.

**Fast neutron activation analysis
with a portable source.**

*Modern Trends in Activation
Analysis*, 28–31, Proceedings 1961
International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). LANE-WELLS CO., A
DIVISION OF DRESSER INDUSTRIES,
INC., HOUSTON, TEXAS.

696 Gilmore, J. T., Hull, D. E.

**Nitrogen-13 in hydrocarbons
irradiated with fast neutrons.**

Modern Trends in Activation

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Analysis, 32–35, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). CALIFORNIA RESEARCH CORP., RICHMOND, CALIF.

697 Meinke, W. W.

Techniques for fast radiochemistry.
Modern Trends in Activation Analysis, 36–40, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.

698 Ehmann, W. D.

Determination of sub-microgram amounts of some heavy elements in meteorites by activation analysis.

Modern Trends in Activation Analysis, 41–45, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). UNIVERSITY OF KENTUCKY, DEPARTMENT OF CHEMISTRY, LEXINGTON, KENTUCKY.

699 Kruger, P., Gruverman, I. J.

Neutron activation analysis for characterization of induced activity in irradiated foods.
Modern Trends in Activation Analysis, 46–49, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORP.

700 Ross, H. H., Gardner, R. P.

Activation analysis training at the Oak Ridge Institute of Nuclear Studies.
Modern Trends in Activation Analysis, 64–66, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, OAK RIDGE, TENN.

701 Durham, R. W., Navalkar, M. P., Ricci, E.

Threshold reaction interference in neutron activation analysis.
Modern Trends in Activation Analysis, 67–71, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). ATOMIC ENERGY OF CANADA, LTD., CHALK RIVER, ONTARIO, CANADA.

702 Buchanan, J. D.

Activation analysis with a TRIGA reactor.
Modern Trends in Activation Analysis, 72–77, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE, GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.

703 Albert, P.

The use of reactions induced by accelerated protons, deuterons, helions and gamma photons in radioactivation analysis for the determination of oxygen, carbon, and nitrogen in metals.
Modern Trends in Activation Analysis, 78–85, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).

(ENGLISH). CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY SUR SEINE, FRANCE.

704 Albert, P.

A combination of chemical and physicochemical methods for a systematic separation of large numbers of radioisotopes on one experimental analysis of aluminum, iron, and zirconium by radioactivation.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Modern Trends in Activation Analysis*, 86–94, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY SUR SEINE, FRANCE.
- 705 Koch, R. C., Roesmer, J.
Application of activation analysis to the determination of trace elements in meat.
Modern Trends in Activation Analysis, 95–101, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORP., PITTSBURGH, PA.
- 706 Jervis, R. E., Perkins, A. K., Mackintosh, W. D., Kerr, M. F.
Activation analysis in forensic investigation.
Modern Trends in Activation Analysis, 107–113, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). DEPT. OF CHEMICAL ENGINEERING, UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 707 Rossi, M. L., D'Agostino, M. D., Nostrand, J. W., Favale, A. J.
Activation research in the aerospace industry.
Modern Trends in Activation Analysis, 114–118, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). GRUMMAN AIRCRAFT ENGINEERING CORP., BETHPAGE, N.Y.
- 708 Girardi, F.
Development of new techniques of activation analysis at the Community Research Center of EURATOM – Ispra.
Modern Trends in Activation Analysis, 119–125, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). C.C.R. EURATOM, ISPRA, VARESE, ITALY.
- 709 Mc Connell, K. P.
Use of activation analysis in studies of selenium in the mammalian organism.
Modern Trends in Activation Analysis, 137–140, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). RADIOISOTOPE SERVICE, VETERANS ADMINISTRATION HOSPITAL AND BIOCHEMISTRY DEPARTMENT, SCHOOL OF MEDICINE, UNIVERSITY OF LOUISVILLE, LOUISVILLE, KENTUCKY.
- 710 Plantin, L. O.
The application of activation analysis to medical problems.
Modern Trends in Activation Analysis, 141–144, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). KING GUSTAF VTH RESEARCH INSTITUTE, STOCKHOLM, SWEDEN.
- 711 Bock–Werthmann, W., Schulze, W.
Methodical improvements of activation analysis.
Modern Trends in Activation Analysis, 145–148, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). HAHN-MEITNER-INSTITUT F. KERNFORSCHUNG, INSTITUTE FOR NUCLEAR RESEARCH, BERLIN, GERMANY.
- 712 Steele, E. L., Meinke, W. W.
Fast neutron activation analysis.
Modern Trends in Activation Analysis, 161–165, Proceedings 1961 International Conference, December 1961, College Station, Texas (1961).
(ENGLISH). DEPARTMENT OF

ACTIVATION ANALYSIS—BIBLIOGRAPHY

CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICH.

- 713 Greenwood, R. C., Reed, J. H.
**Scintillation spectrometer
measurements of capture gamma
rays from natural elements.**
*Modern Trends in Activation
Analysis*, 166–171, Proceedings
1961 International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). PHYSICS RESEARCH
DIVISION, ARMOUR RESEARCH
FOUNDATION, CHICAGO, ILLINOIS.

- 714 Samsahl, K., Soremark, R.
**Comparative and absolute
measurements of 11 inorganic
constituents of 38 human tooth
samples with gamma-ray
spectrometry.**
*Modern Trends in Activation
Analysis*, 149–154, Proceedings
1961 International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). THE CHEMISTRY
DEPARTMENT, AB ATOMENERGI,
STOCKHOLM, SWEDEN.

- 715 Cook, G. B.
**The worldwide development of
activation analysis.**
*Modern Trends in Activation
Analysis*, 133–136, Proceedings
1961 International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA, AUSTRIA.

- 716 Guinn, V. P.
**New developments in instrumental
activation analysis—accelerators
and analyzers.**
*Modern Trends in Activation
Analysis*, 126–132, Proceedings
1961 International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). TECHNICAL DIRECTOR,
ACTIVATION ANALYSIS PROGRAM,
GENERAL ATOMIC DIVISION, GENERAL
DYNAMICS CORP., SAN DIEGO, CALIF.

717 Christell, R.

**The activation analysis program at
the Division of Nuclear Chemistry
and the Isotope Techniques
Laboratory in Stockholm.**

*Modern Trends in Activation
Analysis*, 172, Proceedings 1961
International Conference,
December 1961, College Station,
Texas (1961).

(ENGLISH). DIVISION OF NUCLEAR
CHEMISTRY, THE ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

718 Schultz, W. W.

**Grain boundary segregation studies
by activation.**

ASTM Special Tech. Publ., **268**,
15–19 (1960).

(ENGLISH). NUCLEAR RADIATION
TECHNOLOGY UNIT, GENERAL ELECTRIC
CO., SCHENECTADY, N.Y.

719 Hutchin, W. H.

**Method and apparatus for
quantitative neutron activation
analysis of large samples.**

UCRL-7616, 5p. (1964).

(ENGLISH). UCRL, LIVERMORE,
CALIF.

720 Meinke, W. W.

Nucleonics.

Anal. Chem., **32**, 104R–136R (1960).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICH.

721 Fireman, E. L.

**The distribution of helium-3 in
the Grant meteorite and a
determination of the original
mass.**

Planet. Space Sci., **1**, 66–70
(1959).

(ENGLISH). SMITHSONIAN
ASTROPHYSICAL OBSERVATORY,
CAMBRIDGE, MASS.

722 Leddicotte, G. W., Reynolds, S. A.
**Activation analysis with the Oak
Ridge reactor.**

Nucleonics, **8**, No. 3, 62–65, 78
(1951).

(ENGLISH). ANALYTICAL CHEMISTRY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

Atlantic City, No. 31, 15S
(1959).
(ENGLISH). UNIVERSITY OF KANSAS.

- 723 Bowen, H. J. M.
Strontium and barium in sea water and marine organisms.
J. Mar. Biol. Assoc., **35**, 451-460 (1956).
(ENGLISH). RADIOBIOLOGICAL RESEARCH UNIT, AERE, HARWELL, BERKS, ENGLAND.
- 724 Wager, L. R., Vincent, E. A., Smales, A. A., Bartholome, P.
Sulphides in the Skaergaard intrusion, East Greenland.
Economic Geology, **52**, 855-895, 895-903 (Appendix - By P. Bartholome) (1957).
(ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, OXFORD, ENGLAND.
- 725 Brues, A. M., Robertson, O. H.
Determination of protein bound thyroid iodine by neutron activation.
J. Lab. Clin. Med., **36**, 804 (1950).
(ENGLISH). CHICAGO, ILL.
- 726 Jervis, R. E., Mackintosh, W. D.
Direct activation analysis by neutron activation and scintillation spectrometry.
Abstract 133rd Meeting, A.C.S. San Francisco, No. 72, 27B (1958).
(ENGLISH). ATOMIC ENERGY OF CANADA. LTD., CHALK RIVER, CANADA.
- 727 Jowanovitz, L. S., Mc Carley, R. E., Martin, D. S.
Neutron activation analysis for iridium in platinum.
Abstract 133rd Meeting, A.C.S. San Francisco, No. 71, 26B (1958).
(ENGLISH). DEPT. OF CHEMISTRY AND INSTITUTE FOR ATOMIC RESEARCH, IOWA STATE COLLEGE, AMES, IOWA.
- 728 Rowland, F. S., Haskin, L. A.
Neutron activation analysis for uranium in natural limestones.
Abstract 136th Meeting, A.C.S.
- 729 Grand, J. A., Baus, R. A., Bogard, A. D., Williams, D. D.
Solubility of tantalum and cobalt in sodium by activation analysis.
Abstract 133rd Meeting, A.C.S. San Francisco, No. 70, 26B (1958).
(ENGLISH). WESTINGHOUSE ELECTRIC CORP., PITTSBURGH, PA.
- 730 Druyan, R., Mitchell, T. G., King, E. R., Spencer, R. P.
Neutron activation analysis.
Radiology, **71**, 856-859 (1958).
(ENGLISH). NUCLEAR MEDICINE BRANCH, DEPT. OF RADIOLOGY, U.S. NAVAL HOSPITAL, BETHESDA, MD.
- 731 Meinke, W. W.
Nucleonics.
Anal. Chem., **30**, 686-728 (1958).
(ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 732 Johnson, R. A., Gordon, B. E.
Determination of chlorine by instrumental neutron activation.
Trans. Am. Nucl. Soc., **7**, 328-329 (1964).
(ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 733 Wagner, C. D., Campanile, V. A., Guinn, V. P.
Techniques of chemical research with the electron Van de Graaff.
Nucl. Instr. and Methods, **6**, 238-242 (1960).
(ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 734 Odeblad, E.
Discussion: Neutron-activation analysis.
Trace Analysis, 541-546, Yoe, J.H. and Koch, H.J. (Eds.), John Wiley and Sons, New York (1957).
(ENGLISH). KAROLINSKA MEDIKOKIRURGISKA INSTITUTET, STOCKHOLM, SWEDEN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 735 Leddicotte, G. W., Lyon, W. S.
Special radiochemical analysis in the operation of ORNL reactors.
 TID-7568, Part 2, 145-157 (1958).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 736 Reed, G. W.
Activation analysis applied to geochemical problems.
Researches in Geochemistry, 458-475, Abelson, P.H. (Ed.), John Wiley and Sons, New York (1959).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, LEMONT, ILLINOIS.
- 737 Meyer, R. C.
Construction of a neutron activation apparatus.
 NBL-117, 30 (1956).
 (ENGLISH). NEW BRUNSWICK LABORATORY, AEC, NEW JERSEY.
- 738 Kahng, M. W., Lakshmanan, S., Duffey, D.
Information retrieval from photographic films by neutron activation.
Trans. Am. Nucl. Soc., 7, 331 (1964).
 (ENGLISH). UNIV. OF MARYLAND.
- 739 Winchester, J. W.
Determination of potassium in silicate minerals and rocks by neutron activation analysis.
Anal. Chem., 33, 1007-1012 (1961).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASS.
- 740 Kim, C. K., Silverman, J.
Radiochemical separation of mercury in neutron activation analysis.
Trans. Am. Nucl. Soc., 7, 332 (1964).
 (ENGLISH). UNIV. OF MARYLAND.
- 741 Soremark, R., Lundberg, M.
Gamma-ray spectrometric analysis of the concentrations of Cr, Ag, Fe, Co, Rb, and Pt in normal human enamel.
Acta Odontol. Scand., 22, 255-259 (1964).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). THE HARVARD SCHOOL OF DENTAL MEDICINE, BOSTON, MASS., AND FACULTY OF ODONTOLOGY, UNIVERSITY OF UMEA, SWEDEN.
- 742 Irving, G.
Determination of indium by the radioactivation method.
Trudy Komissu Anal. Khim. Akad. Nauk S.S.S.R. Inst. Geokhim. i. Anal. Khim., 9, 249-263 (1958).
 (RUSSIAN). RUSSIA.
- 743 Peetermans, A.
Measurement of the flux of thermal neutrons and estimation of the flux of epithermal neutrons, by radioactivation of gold-197.
Bull. Soc. Roy. Sci. Liege, 24, Nos. 11-12, 726-735 (1965).
 (FRENCH). UNIVERSITE DE LIEGE, BELGIUM.
- 744 Von Ardenne, M., Bernhard, F.
A nuclear physical method for determining small quantities of carbon in iron.
Z. Physik., 122, 740-748 (1944).
 (GERMAN). KERNPHYSIKALISCHEN INSTITUT DES REICHSPPOSTMINISTERIUMS, BERLIN-LICHTERFELDE-OST UND DER FORSCHUNGSANSTALT DER FRIEDRICH KRUPP, ESSEN, GERMANY.
- 745 Smales, A. A.
Neutron-activation analysis.
Trace Analysis, 518-546, Yoe, J.H. and Koch, H.J. (Eds.), John Wiley and Sons, New York (1957).
 (ENGLISH). AERE, HARWELL, BERKSHIRE, ENGLAND.
- 746 Hughes, D. J.
Activation analysis.
Activation Analysis, 195-196, Addison-Wesley, Cambridge, Massachusetts (1953).
 (ENGLISH). USA.
- 747 Govaerts, J.
Introduction to nuclear chemistry.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

C. Activation analysis.

Activation Analysis, 248–254,
Dunod, Paris (1961).

(FRENCH). FRANCE.

748 Winchester, J. W.

Radioactivation analysis in inorganic geochemistry.

Progress in Inorganic Chemistry,
2, 1–32 (1960).

(ENGLISH). MIT, CAMBRIDGE, MASS.

749 Broda, E., Schonfeld, T.

Activation analysis.

Handbook of Microchemical Methods,
II, 161–197, Hecht, F. and
Zacherl, M.K. (Eds.),
Springer-Verlag, Wien (1955).

(GERMAN). GERMANY.

750 Mapper, D.

Radioactivation analysis.

Methods in Geochemistry, 297–357,
Smales, A.A. and Wager, L.R.
(Eds.), Interscience Publishers,
Inc., New York (1960).

(ENGLISH). AERE, HARWELL,
BERKSHIRE, ENGLAND.

751 Okada, M.

Study on rapid analysis by radioactivation (I): Simple method of graphical estimation for radioactivity induced by neutron irradiation.

Govt. Chem. Ind. Research Inst.
Tokyo, 58, 1–6 (1963).

(JAPANESE) (ENGLISH SUMMARY).
JAPAN.

752 Okada, M.

Study on rapid analysis by radioactivation (II): Simultaneous determination of vanadium and aluminum in graphite.

Govt. Chem. Ind. Research Inst.
Tokyo, 58, 7–10 (1963).

(JAPANESE) (ENGLISH SUMMARY).
JAPAN.

753 Okada, M.

Study on rapid analysis by radioactivation (III):

Determination of selenium by selenium-77m (17 sec).

Govt. Chem. Ind. Research Inst.
Tokyo, 58, 11–15 (1963).

(JAPANESE) (ENGLISH SUMMARY).
JAPAN.

754 Hirano, S., Mizuike, A., Yamada,
K.

Determination of gold in electrolytic copper by neutron-activation analysis.

*The Third Japan Conference on
Radioisotopes*, JRIA 59/P-29, T-29
(1961).

(ENGLISH). FACULTY OF
ENGINEERING, UNIVERSITY OF TOKYO.

755 Taketani, K., Sasaki, Y.

Metallurgical study by neutron activation.

*The Third Japan Conference on
Radioisotopes*, JRIA 59/P-30, T-30
(1961).

(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE.

756 Leveque, P., Kobayashi, M., May,
S.

Activation analysis of oxygen in metals.

*The Third Japan Conference on
Radioisotopes*, JRIA 59/P-27, T-27
(1961).

(ENGLISH). SECTION D'APPLICATION
DES RADIOELEMENTS, DEPARTEMENT DE
PHYSICO-CHIMIE, CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, FRANCE
AND UNIVERSITY OF TOKYO.

757 Kameda, K.

Radioactivation analysis of rare-earth elements in fish.

*The Third Japan Conference on
Radioisotopes*, JRIA 59/P-105, S-5
(1961).

(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, HEALTH
PHYSICS DIVISION.

758 Fukai, R.

Activation analysis of trace elements in marine organisms – estimations of vanadium, arsenic, molybdenum, tungsten, rhenium and

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- gold.
The Third Japan Conference on Radioisotopes, JRIA 59/P-104, S-4 (1961).
 (ENGLISH). TOKAI REGIONAL FISHERIES RESEARCH LABORATORY.
- 759 Loria, G.
Hybrid computer for activation and decay calculations.
Nucl. Instrum. Methods, 56, No. 1, 77-79 (1967).
 (ENGLISH). REACTOR CENTRO NUCLEAR, COMISION NACIONAL DE ENERGIE NUCLEAR, MEXICO.
- 760 Fournet, L.
Systematic analysis of zirconium after neutron irradiation.
 Theses, Faculte des Sciences de l'Universite de Paris, 43p. (28 May 1962).
 (FRENCH). FRANCE.
- 761 Herrmann, G.
Radioactivation analysis.
Sonderdruck aus Technische Mitteilungen, 3, 1-8 (1962).
 (GERMAN). INSTITUT FUR ANORGANISCHE CHEMIE UND KERNCHEMIE DER UNIVERSITAT MAINZ, GERMANY.
- 762 Cerrai, E., Gadda, F.
The determination of oxygen in zirconium by radioactivation with 14 MeV neutrons.
Energia Nucleare, 9, No. 6, 317-325 (1962).
 (ENGLISH) (ITALIAN SUMMARY). LABORATORI CISE - SEGRATE, MILANO, ITALY.
- 763 Bate, L. C., Pro, M. J., Leddicotte, G. W.
Identification and comparison of physical evidence for law enforcement purposes by neutron activation analysis.
 ORNL-TM-363, 1-30, Appendix 1-13 (September 11, 1962).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 764 General Dynamics Corporation
Activation analysis service.
General Dynamics Bulletin, 4p. (ENGLISH). GENERAL DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 765 Meinke, W. W.
Chemistry and the research reactor.
Chemistry Research and Chemical Techniques Based on Research Reactors, 17-59, Vienna, International Atomic Energy Agency (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 766 Menis, O.
Automated methods of analysis in the laboratory and plant.
Symposium on Automated Methods of Analysis in the Laboratory and Plant, Pittsburgh, Pennsylvania, November 14, 1964, 5p. (1964).
 (ENGLISH). NUMEC, PENNSYLVANIA.
- 767 Albert, P., Gaittet, J.
Use of radioisotopes in the systematic analysis of impurities in metals of very high purity.
Radioisotopes in the Physical Sciences and Industry, 243-259, Vienna, International Atomic Energy Agency (1962).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, CNRS, VITRY, FRANCE.
- 768 Perezhogin, G. A.
Determination of rhenium in meteorites and molybdenites by neutron activation, with use of substoichiometric separation.
Industrial Laboratory, 31, No. 4, 486-488 (1965).
 (ENGLISH TRANSLATION). V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY OF THE ACADEMY OF SCIENCES OF THE USSR, MOSCOW, RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 769 Gibbons, D.
Radioactivation analysis.
Radioisotopes Review Sheet, 1-2
 (January 1961).
 (ENGLISH). ISOTOPE RESEARCH
 DIVISION, AERE, ENGLAND.
- 770 Amiel, S., Peisach, M.
**Oxygen-18 analysis by counting
 delayed neutrons of nitrogen-17.**
 IA-691, 21p. (June 1962).
 (ENGLISH). ISRAEL ATOMIC ENERGY
 COMMISSION.
- 771 Demildt, A. C.
**Microactivation analysis for
 oxygen in the actinide metals.**
 UCRL-10324, 11p. (July 19, 1962).
 (ENGLISH). UCRL, BERKELEY,
 CALIF.
- 772 Gitter, S., Amiel, S., Gilat, G.,
 Sonnino, T., Welwart, Y.
**Neutron activation analysis
 studies of snake venoms: Presence
 of copper.**
 IA-746, 7p. (June 1962).
 (ENGLISH). ISRAEL ATOMIC ENERGY
 COMMISSION.
- 773 Mogilevkin, V. B., Sobatchkin, A.,
 Prister, B.
**Neutron activation analysis in
 determining quantity of
 molybdenum vegetable tissue.**
Izv. Timiryazev. sel Skokhoz.
Akad., No. 1, 105-124 (1962).
 (RUSSIAN) (ENGLISH SUMMARY).
 RUSSIA.
- 774 Kamemoto, Y., Shiba, K., Onoda, Y.
**Non-destructive determination of
 iridium by neutron activation.**
Nippon Kagaku Zasshi, **83**, 57-58
 (1962).
 (JAPANESE) (ENGLISH SUMMARY).
 DIVISION OF CHEMISTRY, JAPAN
 ATOMIC ENERGY RESEARCH INSTITUTE,
 NAKA-GUN, IBARAKI, JAPAN.
- 775 Kamemoto, Y., Yamagishi, S.
**Determination of impurities in
 lead metal by neutron activation.**
Nippon Kagaku Zasshi, **83**, 887-888
 (1962).
- (JAPANESE) (ENGLISH SUMMARY).
 JAPAN ATOMIC ENERGY RESEARCH
 INSTITUTE, CHEMISTRY DIVISION,
 TOKAIMURA, IBARAKI, JAPAN.
- 776 Hamaguchi, H., Nakai, T.,
 Kamemoto, Y.
**Determination of platinum,
 iridium, and palladium in
 meteorites by neutron activation.**
Nippon Kagaku Zasshi, **82**,
 1489-1493 (1961).
 (JAPANESE) (ENGLISH SUMMARY).
 TOKYO UNIVERSITY OF EDUCATION,
 BUNKYO-KU, TOKYO, JAPAN.
- 777 Kamemoto, Y., Yamagishi, S.
**Determination of chlorine and
 manganese in bismuth metal by
 neutron activation.**
Nippon Kagaku Zasshi, **83**, 463-465
 (1962).
 (JAPANESE) (ENGLISH SUMMARY).
 JAPAN ATOMIC ENERGY RESEARCH
 INSTITUTE, TOKAI-MURA, IBARAKI,
 JAPAN.
- 778 Hamaguchi, H., Nakai, T., Endo, T.
**Determination of arsenic and
 antimony in meteorites by neutron
 activation.**
Nippon Kagaku Zasshi, **82**,
 1485-1489 (1961).
 (JAPANESE) (ENGLISH SUMMARY).
 TOKYO UNIVERSITY OF EDUCATION,
 BUNKYO-KU, TOKYO, JAPAN.
- 779 Hamaguchi, H., Nakai, T., Ideno,
 E.
**Determination of tungsten in rocks
 and meteorites by neutron
 activation.**
Nippon Kagaku Zasshi, **82**,
 1493-1498 (1961).
 (JAPANESE) (ENGLISH SUMMARY).
 TOKYO UNIVERSITY OF EDUCATION,
 BUNKYO-KU, TOKYO, JAPAN.
- 780 Besspalov, D. F., Savosin, S. I.
**Neutron generators for well
 studies.**
Nuclear Geophysics, Vol. II,
 483-497 (1963).
 (RUSSIAN) (POLISH AND ENGLISH
 SUMMARIES). ALL UNION SCIENTIFIC

ACTIVATION ANALYSIS – BIBLIOGRAPHY

RESEARCH INSTITUTE OF NUCLEAR
GEOPHYSICS AND GEOCHEMISTRY,
MOSCOW, RUSSIA.

Ti Chiu Wu Li Hsueh Pao, **12**,
179–191 (1963).
(CHINESE). CHINA.

- 781 Deyris, M., Albert, P.
Dosage on vanadium in aluminum after "zone melting".
Memoires Scientifiques Rev. Metallurg., **LIX**, No. 1, 14–20 (1962).
(FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU CNRS A VITRY, FRANCE.
- 782 Amiel, S., Welwart, Y.
Lithium and lithium-6 analysis by counting delayed neutrons.
IA-690, 21p. (January 1962).
(ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION.
- 783 Plaksin, I. N., Slepchenko, I. F., Starchik, L. P.
Application of neutron activation analysis for the determination of the contents of tungsten in minerals and concentrate.
Dokl. Akad. Nauk, SSSR, **137**, No. 4, 880–881 (1961).
(RUSSIAN). RUSSIA.
- 784 Bilidin, L. P., Lbov, A. A., Naumova, I. I.
Determination of the isotopic composition of lithium by activation analysis.
Atomnaya Energiya, No. 5, 528–529 (1960).
(RUSSIAN). RUSSIA.
- 785 Alimarin, I. P., Yakovlev, Y. V.
The present position with regard to methods of determining impurities in semiconductor materials.
Industrial Laboratory, USSR, **26**, No. 8, 979–984 (April 1961).
(ENGLISH TRANSLATION). RUSSIA.
- 786 Chang, Y., Lee, S.
A study of detecting artificial radioactive isotopes Cu^{66} and Mn^{56} in the boreholes by a radioactivated method.
- 787 Nuclear Science and Engineering Corporation
Neutron activation analysis.
Nuclear Science and Engineering Corp. Brochures, 7p.
(ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORPORATION, PITTSBURGH, PA.
- 788 Smith, H.
Estimation of strontium-84 in biological material by neutron activation analysis.
Anal. Chem., **35**, 749–751 (1963).
(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY OF GLASGOW, SCOTLAND, AND WESTERN REGIONAL BOARD, REGIONAL PHYSICS DEPARTMENT, GLASGOW, SCOTLAND.
- 789 Laverlochere, J., May, S.
Determination of some impurities in beryllium by neutron activation.
Bull. Soc. Chim. France, 457–461 (1963).
(FRENCH). DEPARTEMENT DES RADIOELEMENTS ARTIFICIELS. SECTION D'APPLICATIONS DES RADIOELEMENTS, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE.
- 790 Girardi, F., Pietra, R.
Neutron activation analysis of aluminum.
Anal. Chem., **35**, 173–177 (1963).
(ENGLISH). SERVIZIO CHIMICA NUCLEARE, CENTRO COMUNE DI RICERCA EURATOM, ISPRA (VARESE), ITALY.
- 791 Ljunggren, K., Christell, R.
Continuous determination of boron in a process stream using a low level neutron source.
Atompraxis, **10**, 259–263 (1964).
(ENGLISH). ISOTOPE TECHNIQUES LABORATORY, STOCKHOLM, SWEDEN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 792 Morris, D. F. C., Killick, R. A.
The determination of traces of selenium and tellurium in samples of platinum by neutron-activation analysis.
Talanta, **10**, 279–285 (1963).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE, LONDON W.3, ENGLAND.
- 793 Cook, G. B.
Report on international comparison of some methods of trace analysis.
 Preprint, 24p.
 (ENGLISH). INTERNATIONAL ATOMIC ENERGY AGENCY.
- 794 Okada, M.
Approximate empirical formula for self-shielding effect in neutron activation.
Intern. J. Applied Radiation and Isotopes, **13**, 53 (1962).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, HON-MACHI, SHIBUYA, TOKYO, JAPAN.
- 795 Ruzicka, J.
Isotopicke zredovani v anorganicke a stopove analyse.
Svazek, **56**, 783–794 (1962).
 (CZECHOSLOVAKIAN). KATEDRA JADERNE CHEMIE, FAKULTA TECHNICKE A JADERNE FYSIKY CVUT, PRAHA.
- 796 Cojocaru, V.
Gamma rays arranged according to the energy emitted by radioisotopes formed by thermal neutron activation of natural isotopes.
 IFA/S.N/17, 36p. (1962).
 (HUNGARIAN). ACADEMIA R.P.R. INSTITUTUL DE FIZICA ATOMICA, BUCHAREST.
- 797 Aoki, F., Okada, M.
Study on rapid analysis by radioactivation (IV). Determination of vanadium in petroleum.
Govt. Chem. Ind. Research Inst. Tokyo, **58**, 49–53 (1963).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN.
- 798 Okada, M.
Study on rapid analysis by radioactivation (V) determination of silver with the help of silver-110.
Govt. Chem. Ind. Research Inst. Tokyo, **58**, 54–57 (1963).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN.
- 799 Kalinin, A. I., Kuznetsova, R. A., Moiseev, V. V., Murin, A. N.
Use of ion exchange chromatography in the activation analysis of micro impurities in silica.
Doklady Akad. Nauk SSSR, **141**, No. 1, 98–100 (1961).
 (RUSSIAN). RUSSIA.
- 800 NATO Advanced Study Institute
Welcome to Glasgow.
 NATO Advanced Study Institute in Activation Analysis, University of Glasgow, No. 2, 4p. (12 August 1964).
 (ENGLISH). GLASGOW, SCOTLAND.
- 801 NATO Advanced Study Institute
A day in Glasgow.
 NATO Advanced Study Institute in Activation Analysis, University of Glasgow, No. 3, 4p. (14 August 1964).
 (ENGLISH). GLASGOW, SCOTLAND.
- 802 Baro, G. B., Gomez, H., Rudelli, M., Deibe, J.
Activation analysis of arsenic in human hair and nails.
Republica Argentina Comision Nacional de Energia Atomica, Informe No. 107, 8p. (1964).
 (SPANISH) (ENGLISH SUMMARY). COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES.
- 803 Cojocaru, V., Cristu, M., Dorcioman, D., Badanoiu, M.
Determination of activated impurities in semiconductor-grade silicon by gamma-spectrography.
Acad. Rep. Populare Romine, Inst. Fiz., Atomic si Inst. Fiz. Studii Cercetari Fiz., **11**, 447–454 (1960).
 (RUMANIAN). RUMANIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 804 Yamada, Y., Miyaguchi, M.
Activation analysis for trace elements in plants and soils.
The Third Japan Conference on Radioisotopes, JRIA 59/P-103, S-3 (1961).
 (ENGLISH). FACULTY OF AGRICULTURE, KYUSHU UNIVERSITY, JAPAN.
- 805 Goto, H., Ikeda, S., Amano, H.
Application of organic coprecipitation method to radioactivation analysis (determination of copper, gallium, antimony, arsenic and silver in high pure metallic silicon).
The Third Japan Conference on Radioisotopes, JRIA 59/P-101, S-1 (1961).
 (ENGLISH). INSTITUTE FOR IRON, STEEL AND OTHER METALS, TOHOKU UNIVERSITY, JAPAN.
- 806 Kobayashi, M., Natsume, H.
Neutron activation analysis of the impurities in aluminum.
The Third Japan Conference on Radioisotopes, JRIA 59/P28, T-28 (1961).
 (ENGLISH). THE ISOTOPES CENTER OF THE TOKYO METROPOLITAN OFFICE, THE TOKYO UNIVERSITY, JAPAN.
- 807 Amiel, S.
Activation analysis with a nuclear reactor, not based on (n, γ) reactions.
Chemistry Research and Chemical Techniques Based on Research Reactors, 115-135, Technical Reports Series No. 17 (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). ISRAEL ATOMIC ENERGY COMMISSION, SOREQ RESEARCH ESTABLISHMENT, REHOVOTH, ISRAEL.
- 808 Amiel, S.
Analytical applications of delayed neutron emission in fissionable elements.
Anal. Chem., **34**, 1683-1692 (1962).
 (ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION/LABORATORIES, REHOVOTH, ISRAEL.
- 809 NATO Advanced Study Institute
The short weekend.
 NATO Advanced Study Institute in Activation Analysis, University of Glasgow, No. 4, 4p. (17 August 1964).
 (ENGLISH). GLASGOW, SCOTLAND.
- 810 Oak Ridge National Laboratory
ORNL analytical chemistry division research and development quarterly progress report for period ending June 15, 1962 – Division of Isotopes Development Program.
 ORNL CF 62-6-74, 17p. (June 29, 1962).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 811 Kaiser, D. G.
Preliminary investigations on (n, $2n$) reactions for activation analysis of carbon, nitrogen and oxygen.
 AECU-4438, Progress Report No. 8, 96-100 (November 1, 1959).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 812 Nguyen-Long-Den, M., Borot, M., Albert, P.
New method of determination of sodium in high purity aluminum.
Compt. Rend., **253**, 2067-2068 (1961).
 (FRENCH). FRANCE.
- 813 Marchart, H., Hecht, F.
Determination of copper, manganese, and cobalt in uranium solution by means of neutron activation.
Monatshefte Chem., **95**, 742-749 (1964).
 (GERMAN). ANALYTISCHEN INSTITUT DER UNIVERSITAT WIEN.
- 814 Albert, P., Engelmann, C., May, S., Petit, J.
Analysis of oxygen, carbon, and nitrogen by activation by means of γ , n reaction.
Compt. Rend., **254**, 119-121 (1962).
 (FRENCH). LABORATOIRE DE VITRY DU

ACTIVATION ANALYSIS—ACCESSION NUMBERS

C.N.R.S. ET CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, FRANCE.

Geochim. Cosmochim. Acta, **26**,
503-505 (1962).

(ENGLISH). TOKYO UNIVERSITY OF
EDUCATION, KOISHIKAWA, TOKYO,
JAPAN.

- 815 Deschamps, N., Loeillot, A.,
Albert, P.
**Systematic analysis of aluminum
after irradiation with neutrons.**
Compt. Rend., **254**, 682-684 (1962).
(FRENCH). FRANCE.

- 821 Fournet, L., Deschamps, N.,
Albert, P.
**Determination of aluminum,
vanadium, magnesium, and titanium
in metals irradiated with
neutrons.**
Compt. Rend., **254**, 1640-1642
(1962).
(FRENCH). LABORATOIRE DE VITRY DU
C.N.R.S., FRANCE.

- 816 Morris, D. F. C.
Neutron-activation analysis.
Metallurgical Reviews, **7**, No. 26,
241-281 (1962).
(ENGLISH). BRUNEL COLLEGE,
LONDON, W.3., ENGLAND.

- 822 Moore, F. L., Eldridge, J. S.
**Direct nondestructive method for
determination of californium-252.
Application of prompt gamma rays
from spontaneous fission.**
Anal. Chem., **36**, 808-811 (1964).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

- 817 Nichiporuk, W., Brown, H.
**Platinum and iridium abundances in
meteorites.**
Phys. Rev. Ltrs., **9**, No. 6,
245-246 (1962).
(ENGLISH). S. MUDD LABORATORY OF
GEOLOGICAL SCIENCES, CALIFORNIA
INSTITUTE OF TECHNOLOGY,
PASADENA, CALIF.

- 823 Fukai, R.
**Activation analysis of cobalt in
aluminum-cobalt foil.**
AECU-4438, 86-88 (November 1,
1959).
(ENGLISH). UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICH.

- 818 Aalberts, J. H., Verheijke, M. L.
**The solid solubility of nickel in
silicon determined by neutron
activation analysis.**
Appl. Phys. Ltrs., **1**, No. 1, 19-20
(1962).
(ENGLISH). PHILIPS RESEARCH
LABORATORIES, N.V. PHILIPS
GLOEILAMPENFABRIEKEN,
EINDHOVEN-NETHERLANDS.

- 824 Okada, M.
**Basic study on activation
analysis. (II) Gamma-ray spectra
of short-lived nuclides produced
by neutron irradiation.**
Tokyo Kogyo Shikensho Hokoku, **58**,
No. 2, 64-75 (1963).
(JAPANESE) (ENGLISH SUMMARY).
GOVERNMENT CHEMICAL INDUSTRIAL
RESEARCH INSTITUTE, TOKYO, JAPAN.

- 819 Dyer, F. F., Emery, J. F.,
Leddicotte, G. W.
**A comprehensive study of the
neutron activation analysis of
uranium by delayed-neutron
counting.**
ORNL-3342, 71p. (October 2, 1962).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

- 825 Niese, S.
**Determination of copper in gallium
arsenide by activation analysis.**
Kernenergie, **7**, 263 (1964).
(GERMAN). ZENTRALINSTITUT FUR
KERNFORSCHUNG, ROSSENDORF,
GERMANY.

- 820 Hamaguchi, H., Kuroda, R.,
Shimizu, T., Tsukahara, I.,
Yamamoto, R.
**Values for trace elements in G-1
and W-1 with neutron activation
analysis—II. Mo, Sn, Ta, W.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 826 Aoki, F., Okada, M.
Method of the choice of " cooling time " to reduce interfering activity in neutron activation analysis.
The Fourth Japan Conference on Radioisotopes, Kyoto, Paper P and C-11, 531-538 (1961).
 (JAPANESE AND ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, HON-MACHI, SHIBUYA-KU, TOKYO, JAPAN.
- 827 Tsuji, H., Kusaka, Y., Namikawa, Y.
Radioactivation analysis of bromine and iodine in organic compounds using a low-level neutron source.
Bull. Chem. Soc. Japan, 35, No. 12, 2045-2047 (1962).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, HIGASHINADA-KU, KOBE, JAPAN.
- 828 Lindner, M.
Resonance neutron activation measurements.
 PNE-113P, 43p. (February 5, 1962).
 (ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.
- 829 Soremark, R., Samsahl, K.
Analysis of inorganic constituents in dental calculus by means of neutron activation and gamma-ray spectrometry.
J. Dental Res., 41, No. 3, 596-602 (1962).
 (ENGLISH). CLINICAL LABORATORY AND DEPARTMENT OF PROSTHETICS OF THE ROYAL SCHOOL OF DENTISTRY AND AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 830 Soremark, R., Samsahl, K.
Gamma-ray spectrometric analysis of elements in normal human enamel.
Arch. Oral Biol., Special Suppl., 6, 275-283 (1961).
 (ENGLISH) (GERMAN SUMMARY). THE CLINICAL LABORATORY AND THE DEPARTMENT OF PROSTHETICS OF THE
- ROYAL SCHOOL OF DENTISTRY AND AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 831 Niese, S.
The gamma spectrometric determination of sodium in silicon and silicon dioxide.
Kernenergie, 7, 105-108 (1964).
 (GERMAN). MITTEILUNG AUS DEM ZENTRALINSTITUT FÜR KERNFORSCHUNG, BEREICH RADIOCHEMIE, ROSSENDORF BEI DRESDEN, GERMANY.
- 832 Lux, F.
Activation analysis determination of silicon in materials with high cadmium content. I. The electrolytic separation of silver from cadmium.
Radiochim. Acta, 1, No. 1, 20-27 (1962).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MÜNCHEN.
- 833 Laverlochere, J.
Some applications of gamma spectrometry in analytical chemistry.
Microtechnic, 16, No. 262, 1-7 (1962).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, SECTION D'APPLICATION DES RADIOELEMENTS, GRENOBLE, FRANCE.
- 834 Laverlochere, J.
Analysis of some impurities in aluminum by neutron radioactivation.
Chim. Anal., 9, 388-391 (1962).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, SECTION D'APPLICATION DES RADIOELEMENTS, GRENOBLE, FRANCE.
- 835 Laverlochere, J.
Activation analysis. 1. Introduction.
Microtechnic, 16, No. 5, 1-8 (1962).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, FRANCE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 836 Laverlochere, J.
Activation analysis. 2.
Applications.
Microtecnic, **16**, No. 6, 1-9
 (1962).
 (FRENCH). CENTRE D'ETUDES
 NUCLEAIRE DE GRENOBLE, FRANCE.
- 837 Nuclear-Chicago Corporation
Model NH3 neutron howitzer.
 Nuclear Chicago Corporation
 Brochure, 7p.
 (ENGLISH). NUCLEAR CHICAGO
 CORPORATION, DES PLAINES,
 ILLINOIS.
- 838 Abe, T., Sato, K., Oi, N.
**Determination of epitaxial-layer
 impurity distribution by neutron
 activation method.**
Japan J. Appl. Phys., **4**, 70-71
 (Jan. 1965).
 (ENGLISH). SEMICONDUCTOR
 ENGINEERING DEPT., TOKYO SHIBAURA
 ELECTRIC CO., LTD., KAWASAKI,
 JAPAN.
- 839 Shneour, E. A.
**On the use of the nuclear
 activation reaction $^{18}\text{O}(\alpha, n)^{21}\text{Ne}$
 for ^{18}O analysis.**
 UCRL-10634, 49-55 (1962).
 (ENGLISH). UCRL, LIVERMORE,
 CALIF.
- 840 Gilat, J., Gurfinkel, Y.
**Self-shielding effects in
 activation analysis.**
 IA-756, 24p. (December 1962).
 (ENGLISH). NUCLEAR CHEMISTRY
 DEPARTMENT, ISRAEL ATOMIC ENERGY
 COMMISSION.
- 841 Amiel, S., Peisach, M.
**Analytical aspects of delayed
 neutron emission.**
 IA-784, 35p. (October 1962).
 (ENGLISH). ISRAEL ATOMIC ENERGY
 COMMISSION, SOREQ RESEARCH
 ESTABLISHMENT.
- 842 Amiel, S., Peisach, M.
**Radioactivation analysis of sodium
 by counting photoneutrons.**
 IA-799, 28p. (February 1963).
 (ENGLISH). ISRAEL ATOMIC ENERGY
 COMMISSION, SOREQ RESEARCH
 ESTABLISHMENT.
- 843 Amiel, S., Gilat, J.
**The reactions $\text{O}^{17}(n, p)\text{N}^{17}$ and
 $\text{O}^{18}(n, d)\text{N}^{17}$ with reactor
 neutrons.**
 IA-755, 20p. (February 1963).
 (ENGLISH). ISRAEL ATOMIC ENERGY
 COMMISSION, SOREQ RESEARCH
 ESTABLISHMENT.
- 844 Kaiser, D. G.
**Preliminary investigations of the
 activation analysis of trace
 selenium in tissue using Se^{77m} ,
 Se^{79m} , and Se^{81m} .**
 AECU-4438, 94-96 (1959).
 (ENGLISH). UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 845 Fite, L. E., Steele, E. L.,
 Wainerdi, R. E.
**Investigations in automated
 activation analysis.**
 TEES-2671-2, 440p. (November 1,
 1962).
 (ENGLISH). ACTIVATION ANALYSIS
 RESEARCH LABORATORY, TEXAS A AND
 M, UNIVERSITY, COLLEGE STATION TEXAS.
- 846 Guinn, V. P.
**Reactor-produced short-lived
 radioisotopes used in neutron
 activation analysis.**
*Production and Use of Short-Lived
 Radioisotopes from Reactors*, Vol.
II, 3-28, Proceedings of a
 Seminar, Vienna, 5-9 November
 1962, Vienna International Atomic
 Energy Agency (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND
 SPANISH SUMMARIES). GENERAL
 ATOMIC DIVISION, GENERAL DYNAMICS
 CORP., SAN DIEGO, CALIF.
- 847 NATO Advanced Study Institute
**Best ever exhibit. Comment from
 Chicago.**
 NATO Advanced Study Institute in
 Activation Analysis, University
 of Glasgow, No. 5, 4p. (24 August
 1964).
 (ENGLISH). GLASGOW, SCOTLAND.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 848 Loos, R.
Activation analysis and determination of short-lived isotopes.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 45–51, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). DEPARTMENT DE PHYSIQUE, UNIVERSITE LOVANUM, CONGO, LEOPOLDVILLE.
- 849 Petit, J., Engelmann, C.
Determining traces of impurities in beryllium by non-destructive methods.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 29–37, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). CENTRE D'ETUDES NUCLEAIRES, SACLAY, FRANCE.
- 850 Baker, C. A.
Some techniques for the determination of isotopes of short half-life as applied to the activation analysis of beryllium.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 39–44, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). UKAEA RESEARCH GROUP, LONDON, ENGLAND.
- 851 Albert, P., Deyris, M., Deschamps, N., Fournet, L.
Use of short-lived radioisotopes to determine impurities in aluminum, iron and zirconium of very high purity.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 53–71, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
- (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY, FRANCE.
- 852 Gibbons, D., Simpson, H.
The use of short-lived radioactive isotopes in an activation analysis service programme.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 95–109, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). WANTAGE RESEARCH LABORATORY, WANTAGE, ENGLAND.
- 853 Barthomeuf, D., Bussiere, P., Laverlochere, J.
Routine neutron radioactivation analysis. Non-destructive assay of sodium, at medium concentrations, in small samples of silica – alumina gels and in solutions.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 79–93, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). INSTITUT DE RECHERCHES SUR LA CATALYSE, VILLEURBANNE, FRANCE.
- 854 Das, H. A.
The use of the 10-kW Argonaut Reactor at Petten for radioactivation, including the quantitative aspects of short-time irradiations.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. II, 111–125, Proceedings of a Seminar, Vienna, 5–9 November 1962, Vienna International Atomic Energy Agency (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). REACTOR CENTRUM NEDERLAND, PETTEN, NETHERLANDS.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 855 Plaksin, M. A., Belyakov, M. A.,
Starchik, L. P.
**The use of gamma spectroscopy for
the determination of beryllium,
boron, and fluorine in
beneficiated ores from the gamma
radiation accompanying the
interaction of the nuclei of
these elements with alpha
radiation.**
Atomic Energy, USSR, **13**, No. 10,
984–987 (1962).
(ENGLISH TRANSLATION). RUSSIA.
- 856 Matsumura, Y.
**Radioactivation analysis of
strontium in rat-bone ash.**
*Production and Use of Short-Lived
Radioisotopes from Reactors*, Vol.
II, 137–144, Proceedings of a
Seminar, Vienna, 5–9 November
1962, Vienna International Atomic
Energy Agency (1963).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). TOKYO WOMENS
MEDICAL COLLEGE, TOKYO, JAPAN.
- 857 Bock-Werthmann, W.
**AED information service. Series C:
Bibliographies**
AED-C-14-03, 209p., February 1964.
(SEVERAL LANGUAGES).
HAHN-MEITNER INSTITUT FÜR
KERNFORSCHUNG, BERLIN, GERMANY.
- 858 Shamaev, V. I., Saunkin, O. F.
**Determination of micro
concentrations of gold in
high-purity selenium.**
*Izv. Vyssh. Ucheb. Zavedenii Khim.
i Khim. Tekhnol.*, **3**, No. 1, 66–68
(1960).
(RUSSIAN). RUSSIA.
- 859 Leddicotte, G. W., Wahl, W. H.
**An evaluation of the potentials of
neutron activation analysis in
cosmetic chemistry.**
J. Soc. Cosmetic Chemists, **16**, No.
10, 571–587 (1965).
(ENGLISH). UNION CARBIDE CORP.,
NUCLEAR RESEARCH CENTER, TUXEDO,
N.Y.
- 860 Barrall, E. M., II, Porter, R. S.,
Johnson, J. F.
**Gas chromatographic analysis of
poly (ethylene ethyl acrylate)
and poly (ethylene vinyl acetate)
pyrolyzates.**
Anal. Chem., **35**, 73–76 (1963).
(ENGLISH). CALIFORNIA RESEARCH
CORP., RICHMOND, CALIF.
- 861 Lukens, H. R., Otvos, J. W.,
Wagner, C. D.
**Formation of metastable isomers by
photoactivation with the Van de
Graaff accelerator.**
*Intern. J. Appl. Rad. and
Isotopes*, **11**, 30–37 (1961).
(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). SHELL
DEVELOPMENT CO., EMERYVILLE,
CALIF.
- 862 Borg, D. C., Segel, R. E., Kienle,
P., Campbell, L.
**Selective radioactivation and
multiple coincidence spectrometry
in the determination of trace
elements in biological material.
Measurement of manganese.**
*Intern. J. Appl. Rad. and
Isotopes*, **11**, 10–29 (1961).
(ENGLISH). (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). MEDICAL,
REACTOR, AND INSTRUMENTATION AND
HEALTH PHYSICS DEPARTMENTS,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, NEW YORK.
- 863 Stallwood, R. A., Mott, W. E.,
Fanale, D. T.
**Determination of the total oxygen
content of organic materials by
fast neutron activation.**
Anal. Chem., **35**, 6–10 (1963).
(ENGLISH). GULF RESEARCH AND
DEVELOPMENT CO., PITTSBURGH, PA.
- 864 Blackburn, R., Peters, B. F. G.
**Determination of phosphorus in
hypereutectic aluminum-silicon
alloys by a neutron activation
method.**
Anal. Chem., **35**, 10–13 (1963).
(ENGLISH). TUBE INVESTMENTS
RESEARCH LABORATORIES, HINXTON
HALL, CAMBRIDGE, ENGLAND.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 865 Adams, F.
Fabrication, properties and applications of Ge(Li) gamma detectors.
Atomic Energy Review, **5**, No. 4, 31–92 (1967).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, STATE UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 866 Decat, D., Van Zanten, B., Leliaert, G.
Determination of trace quantities of uranium by neutron activation analysis.
Anal. Chem., **35**, 845–847 (1963).
 (ENGLISH). CHEMISTRY DEPARTMENT, CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, MOL, BELGIUM.
- 867 Bailey, R. F., Ross, D. A.
Determination of oxygen in gallium arsenide by neutron activation analysis.
Anal. Chem., **35**, 791–794 (1963).
 (ENGLISH). RCA LABORATORIES, PRINCETON, N.J.
- 868 Amiel, S., Peisach, M.
Oxygen-18 determination by counting delayed neutrons of nitrogen-17.
Anal. Chem., **35**, 323–327 (1963).
 (ENGLISH). SOREQ RESEARCH ESTABLISHMENT, ISRAEL ATOMIC ENERGY COMMISSION, REHOVOTH, ISRAEL.
- 869 Isaeva, E. A., Makasheva, I. E., Maslov, I. A., Obukhov, A. P.
Chemical identification of phosphorus and thallium during quantitative neutron activation analysis.
Radiokhimiya, **4**, No. 3, 345–350 (1962).
 (RUSSIAN). RUSSIA.
- 870 Kalinin, A. I., Kuznetsov, R. A., Moiseev, V. V.
Activation analysis of silicon dioxide.
Radiokhimiya, **4**, No. 5, 575–581 (1962).
 (RUSSIAN). RUSSIA.
- 871 Negina, V. R., Zamyatnina, V. N., Egorova, A. A.
Determination of chlorine, arsenic and phosphorus present as impurities in some organic materials by the activation method.
Radiokhimiya, **5**, No. 2, 270–272 (1963).
 (RUSSIAN). RUSSIA.
- 872 Laverlochere, J.
General report irradiation.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 17–22, Presses Universitaires de France, Grenoble, France (May 1961).
 (FRENCH). S.A.R. CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, FRANCE.
- 873 Ciuffolotti, L.
Sensitivity of detection in analysis by neutron activation by means of short-lived radioisotopes.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 23–24, Presses Universitaires de France, Grenoble, France (May 1961).
 (FRENCH). SORIN CENTRE DE RECHERCHES NUCLEAIRES – SALLUGIA – ITALY.
- 874 Chinaglia, B.
Preparation of standards for irradiation in analysis by neutron activation.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 25, Presses Universitaires de France, Grenoble, France (May 1961).
 (FRENCH). SORIN, CENTRE DE RECHERCHES NUCLEAIRES, SALLUGIA, ITALY.
- 875 Coleman, R. F.
Activation analysis with fast neutrons.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 27–28, Presses Universitaires de France, Grenoble, France (May 1961).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). UKAEA, ALERMASTON,
ANGLETERRE, ENGLAND.

876 Gerbier, R.

Production of 14 MeV neutrons.
*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 29–30, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). CHEF DU LABORATOIRE
ACCELERATEURS, CEN, GRENOBLE,
FRANCE.

877 D'Hont, M., Decat, D.

**Project for the employment of
installations for the irradiation
of Br₂ for radiochemical studies.**
*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 31–36, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). CENTRE D'ETUDES
NUCLEAIRES, CEN, MOL, BELGIQUE.

878 May, S.

**Methods of chemical separations
utilized in activation analysis.**
*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 37–50, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). S.P.C.A. CENTRE ETUDES
NUCLEAIRES DE SACLAY, FRANCE.

879 Albert, P., Deschamps, N.,
Fournet, L., Loeillot, A.

**On the systematic analysis of
aluminum for iron and zirconium
by activation.**

*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 51–59, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE, LABORATOIRE
DE VITRY, FRANCE.

880 Decat, D., Van Zanten, B.,
Leliaert, G.

**The determination of trace
quantities of uranium by neutron**

activation analysis.

*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 61–65, Presses
Universitaires de France,
Grenoble, France (May 1961).

(ENGLISH). CENTRE D'ETUDE DE
L'ENERGIE NUCLEAIRE, CHEMISTRY
DEPARTMENT, MOL, BELGIQUE.

881 Peart, R. F., Jona, F., Wendt, H.
R., Seirmarco, J. A.

**Quantitative determination of
evaporated silicon films by
neutron activation.**

J. Appl. Phys., **38**, No. 12,
4927–4928 (1967).

(ENGLISH). IBM WATSON RESEARCH
CENTER, YORKTOWN HEIGHTS, NEW
YORK.

882 Comar, D., Kellershohn, C.

**Application of analysis by
activation for determination of
oligo elements in biological
liquids effected for Frederic
Joliot Hospital service.**

*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 71–76, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). C.E.A. DEPARTEMENT DE
BIOLOGIE, SERVICE FREDERIC
JOLIOT, FRANCE.

883 Fasolo, G. B.

**On some rapid chemical separations
which can be utilized for
analysis by neutron activation.**

*Comptes Rendus des Journees
d'Etudes sur l'Analyse par
Activation*, 77–79, Presses
Universitaires de France,
Grenoble, France (May 1961).

(FRENCH). SORIN, CENTRE DE
RECHERCHES NUCLEAIRES, SALLUGIA,
ITALY.

884 Martinelli, P.

**Evolution of methods of
measurement in activation
analysis.**

*Comptes Rendus des Journees
d'Etudes sur l'Analyse par*

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Activation*, 81–91, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). S.A.R. CENTRE ETUDES NUCLEAIRES SACLAY, FRANCE.
- 885 Chinaglia, B.
Techniques of special measurement for analysis by neutron activation.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 93–95, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). SORIN, SALUGGIA, ITALY.
- 886 Hoste, J., Adams, F., De Soete, D.
Gamma spectrometry after Peirson application to activation analysis.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 97–98, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). UNIVERSITE DE GAND, BELGIQUE.
- 887 Franz, I., Langheinrich, W.
Masking effect, foreign substance content, and structure of various silicon diode layers.
Telefunken Ztg., **39**, 348–358 (1966).
(GERMAN). GERMANY.
- 888 Franz, I., Langheinrich, W.
Influence of quartz impurities on the cleanliness of annealed semiconductor surfaces.
Telefunken Ztg., **39**, 365–369 (1966).
(GERMAN). GERMANY.
- 889 Rispal, C.
Generalities about activation analysis.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 107–109, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). S.A.R. CENTRE D'ETUDES NUCLEAIRES DE SACLAY, FRANCE.
- 890 Laverlochere, J.
Performances—cost.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 111–115, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). S.A.R., C.E.N., GRENOBLE, FRANCE.
- 891 Cornuet, R.
Industrial applications of activation analysis.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 117–119, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). CHEF DE LA SECTION D'APPLICATION DES RADIOELEMENTS, C.E.A., FRANCE.
- 892 Mellet, M.
Application of radioactivation for the determination of traces in high purity materials for the elaboration of semi-conductors and electronic tubes.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 121–124, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). C.N.E.T. ISSY LES MOULINEAUX, FRANCE.
- 893 Hoste, J., Leliaert, G., Bouteu, P.
Activation analysis of mineral constituents in steel and pig iron with the aid of an internal standard.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 125, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). UNIVERSITE DE GAND, LABORATOIRE DE CHIMIE ANALYTIQUE, BELGIQUE.
- 894 Mathieu, R.
Analysis of materials in semi-conductors.
Comptes Rendus des Journees d'Etudes sur l'Analyse par

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Activation*, 127–128, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). CENTRE DE RECHERCHES, COMPAGNIE SAINT-GOBAIN, ANTONY, FRANCE.
- 895 Malvano, R.
Analysis by neutron activation — industrial applications.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 129–130, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). SORIN, SALUGGIA, ITALY.
- 896 Kohn, A.
Some applications in metallurgy.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 131–132, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). CHEF DU SERVICE METALLOGRAPHIE SPECIALE, EMPLOI DES RADIOELEMENTS, A L'INSTITUT DE RECHERCHES DE LA SIDERURGIE, FRANCE.
- 897 Albert, M.
Discussion.
Comptes Rendus des Journees d'Etudes sur l'Analyse par Activation, 133, Presses Universitaires de France, Grenoble, France (May 1961).
(FRENCH). FRANCE.
- 898 Braun, H., Schulze, W.
An automatic irradiation and measuring equipment for rapid activation analysis with 14 MeV neutrons.
Kerntechnik, **9**, 289–293 (July 1967).
(GERMAN). INSTITUT FUR ANORGANISCHE CHEMIE DER FREIEN UNIVERSITAT BERLIN, GERMANY.
- 899 Nakai, T., Yajima, S., Okada, M., Fujii, I.
Activation analysis of impurities in reactor materials.
Symposium on Radiochemistry,
University of Kyoto, Kyoto, Japan, November 2–3, 1958, 1 (1958).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.
- 900 Rakovic, M.
Combination of neutron activation analysis with paper chromatography. A review.
Chem. Listy, **58**, 1141–1146 (1964).
(CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY, FAKULTA VSEOBECNEHO LEKARSTVI KU, PRAHA, CZECHOSLOVAKIA.
- 901 Laverlochere, J., Martinelli, P.
Radioactive method of analysis.
Bull. d'Information Scientifique et Technique (Paris), **1**, No. 5, 50–57 (1961).
(FRENCH). FRANCE.
- 902 Yakovlev, Y. V., Sterlinski, S.
Determination of contaminations in pure phosphorus by means of neutron activation using gamma-ray spectrometry.
Nukleonika, **7**, 141–151 (1961).
(RUSSIAN) (POLISH AND ENGLISH SUMMARIES). POLAND.
- 903 Dabek, W.
Experimental reactor physics research.
Nukleonika, **5**, No. 7, 415–438 (1960).
(ENGLISH) (POLISH AND RUSSIAN SUMMARIES). POLISH ACADEMY OF SCIENCES, INSTITUTE OF NUCLEAR RESEARCH, REACTOR ENGINEERING DEPARTMENT, WARSZAWA, POLAND.
- 904 Baranov, V. I., Khristianov, V. K., Karasev, B. V., Korobov, S. S.
Neutron borometric profiling.
Geochemistry, No. 6, 586–595 (1960).
(ENGLISH TRANSLATION). V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES USSR, MOSCOW, RUSSIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 905 Ivanova, V. F., Kirnozov, F. F.
Application of neutron logging in geochemical prospecting for boron deposits and analysis of boron.
Geochemistry, No. 7, 647–653 (1961).
 (ENGLISH TRANSLATION). V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES USSR, MOSCOW, RUSSIA.
- 906 Monnier, D., Haerdi, W., Vogel, J.
Preliminary study of the determination of elements by neutron activation, based upon the formation of short-lived isotopes: Rapid separation and determination of losses.
Helv. Chim. Acta, **44**, 897–903 (1961).
 (FRENCH). (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE MINERALE, DE CHIMIE ANALYTIQUE ET DE MICROCHIMIE, DE L'UNIVERSITE DE GENEVE.
- 907 Jowanovitz, L. S., Mc Natt, F. B., Mc Carley, R. E., Martin, D. S.
Neutron activation analysis for iridium in platinum.
Anal. Chem., **32**, 1270–1272 (1960).
 (ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENT OF CHEMISTRY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 908 Bowie, S. H. U., Bisby, H., Burke, K. C., Hale, F. H.
Electronic instruments for detecting and assaying beryllium ores.
Trans. Inst. of Mining and Metallurgy, **69**, 345–359 (1960).
 (ENGLISH). ATOMIC ENERGY DIVISION, GEOLOGICAL SURVEY OF GREAT BRITAIN.
- 909 Haskin, L. A., Fearing, H. W., Rowland, F. S.
Neutron activation analysis for U^{235} , especially in limestones, by measurement of Xe^{133} .
Anal. Chem., **33**, 1298–1301 (1961).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KANSAS, LAWRENCE, KAN.
- 910 Halverson, G., Shtasel, A.
Activation analysis of tantalum in a niobium matrix.
Anal. Chem., **33**, 1627–1628 (1961).
 (ENGLISH). RESEARCH DIVISION FANSTEEL METALLURGICAL CORP., NORTH CHICAGO, ILL.
- 911 Savel, P.
Determination of arsenic in hair by radioactivation analysis.
Ann. Pharm. Franc., **21**, 303–308 (1963).
 (FRENCH). LABORATOIRES DE PHYSIQUE NUCLEAIRE, COLLEGE DE FRANCE ET ORSAY, FRANCE.
- 912 Thompson, B. A.
Determination of oxide film thickness by proton activation.
Anal. Chem., **33**, 583–586 (1961).
 (ENGLISH). GENERAL ENGINEERING LABORATORY, GENERAL ELECTRIC CO., SCHENECTADY, N.Y.
- 913 Winchester, J. W., Bottino, M. L.
Determination of carbon, oxygen, and silicon in solids by activation analysis with 15 MeV deuterons.
Anal. Chem., **33**, 472–473 (1961).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASS.
- 914 Shideler, R. W., Meinke, W. W.
An ultra high speed reactor—irradiation—transport system for activation analysis.
Trans. Am. Nucl. Soc., **7**, 329–330 (1964).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 915 Haerdi, W., Vogel, J., Monnier, D.
Direct determination of cobalt in inconel by thermal neutron activation: Limits of determination and interferences.
Helv. Chim. Acta, **43**, 1585–1595 (1960).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE DE CHIMIE MINERALE,
DE CHIMIE ANALYTIQUE ET DE
MICROCHIMIE DE L'UNIVERSITE DE
GENEVE.

916 Takeda, T., Suzuki, I., Kimura, K.

**Particle size distribution
analysis of thorium oxide by
neutron activation and RI
labeling.**

J. Atomic Energy Society, Japan,
2, 122-126 (1960).

(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, JAPAN.

917 Burrill, E. A., Mac Gregor, M. H.

Using accelerator neutrons.

Nucleonics, **18**, No. 12, 64-65, 68
(1960).

(ENGLISH). HIGH VOLTAGE
ENGINEERING CORP., BURLINGTON,
MASS.

918 Mesler, R. B.

**Rapid assessment of neutron
activation.**

Nucleonics, **18**, No. 1, 73-75
(1960).

(ENGLISH). UNIVERSITY OF KANSAS,
LAWRENCE, KANSAS.

919 Forberg, S., Lundgren, S.

**Activation analysis of trace
metals in sodium triphosphate.**

**Use of Dowex A-1 for chemical
separations.**

Anal. Chem., **32**, 1202-1203 (1960).

(ENGLISH). DIVISION OF PHYSICAL
CHEMISTRY, THE ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

920 Mackintosh, W. D.

**Use of neutron activation analysis
for determining effectiveness of
zone-refining techniques in the
purification of aluminum.**

Anal. Chem., **32**, 1272-1275 (1960).

(ENGLISH). ATOMIC ENERGY OF
CANADA, LTD., CHALK RIVER,
ONTARIO, CANADA.

921 Lbov, A. A., Naumova, I. I.

**14 MeV neutron activation
analysis.**

J. Nucl. Energy, Part A, **12**, 85-86
(1960).

(ENGLISH TRANSLATION). RUSSIA.

922 Hamaguchi, H., Kuroda, R., Onuma,
N., Yasunaga, T.

**Determination of copper in
silicates with neutron activation
and spectrochemical methods.**

Nippon Kagaku Zasshi, **82**,
1190-1193 (1961).

(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOKYO UNIVERSITY OF
EDUCATION, KOISHIKAWA, TOKYO,
JAPAN.

923 Adamski, L., Bouzyk, J.,

Jozefowicz, K.

**Method of simultaneous
determination of small sodium and
potassium amounts by the neutron
activation.**

Nukleonika, **5**, No. 6, 317-327
(1960).

(POLISH) (RUSSIAN AND ENGLISH
SUMMARIES). INSTYTUT BADAN
JADROWYCH PAN, WARSZAWA, ZAKLAD
INZYNIERII REAKTOROWEJ, POLAND.

924 Abdullaev, A. A., Lobanov, E. M.,

Novikov, A. P., Romanov, M. M.,
Khaidarov, A. A.

**Determination of the indium
content of sphalerites by
radioactivation analysis.**

J. Anal. Chem. USSR, **15**, 801-806
(1960).

(ENGLISH TRANSLATION). INSTITUTE
OF NUCLEAR PHYSICS, ACADEMY OF
SCIENCES, UZB. SSR, TASHKENT,
RUSSIA.

925 Nowicka-Jankowska, T., Radwan, Z.

**Review of analytical methods for
determination of rare earths. II.**

Chem. Anal. (Warsaw), **8**, 307-325
(1963).

(POLISH) (ENGLISH SUMMARY).
DEPARTMENT OF ANALYTICAL
CHEMISTRY, INSTITUTE OF NUCLEAR
RESEARCH, WARSAW, POLAND.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 926 Edwards, R. R.
Iodine-129 its occurrence in nature and its utility as a tracer.
Science, **137**, 851-853 (1962).
 (ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORP., PITTSBURGH, PA.
- 927 Shedlovsky, J. P., Mott, W. E.
Evaluation of quartz for neutron activation studies.
Intern. J. Appl. Rad. and Isotopes, **13**, 97-98 (1962).
 (ENGLISH). GULF RESEARCH AND DEVELOPMENT CO., PITTSBURGH, PA.
- 928 Souliotis, A. G.
Determination of nickel in hydrogenated fats by neutron activation analysis.
Anal. Chem., **36**, 1385-1386 (1964).
 (ENGLISH). NUCLEAR RESEARCH CENTER, DEMOCRITUS, CHEMISTRY DEPARTMENT, ATHENS, GREECE.
- 929 Papavasiliou, P. S., Cotzias, G. C.
Neutron activation determination of manganese in body fluids.
Fed. Proc., **19**, 250 (1960).
 (ENGLISH). MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL LABORATORY, UPTON, L.I., N.Y.
- 930 Obrink, K. J., Ulfendahl, H. R.
Gammasspectrometry for analysis of mixtures of radioisotopes in biological and medical research.
Intern. J. Appl. Rad. and Isotopes, **5**, 99-105 (1959).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). INSTITUTE OF PHYSIOLOGY, UNIVERSITY OF UPPSALA, SWEDEN.
- 931 Lee, W.
Direct estimation of gamma-ray abundances in radionuclide mixtures. Complement subtraction method.
Anal. Chem., **31**, 800-806 (1959).
 (ENGLISH). U.S. NAVAL RADIOLOGICAL DEFENCE LABORATORY, SAN FRANCISCO, CALIF.
- 932 Schmitt, R. A., Zweig, G.
Total organic chloride content in butterfat by a rapid method of neutron activation analysis.
J. Agri. and Food Chem., **10**, No. 6, 481-484 (Nov.-Dec. 1962).
 (ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 933 Castro, C. E., Schmitt, R. A.
Nematocide residues. Direct elemental analysis of citrus crops by instrumental neutron activation. A rapid method for total bromide, chloride, manganese, sodium, and potassium residues.
J. Agri. and Food Chem., **10**, No. 3, 236-239 (May-June 1962).
 (ENGLISH). DEPARTMENT OF NEMATOLOGY, UNIVERSITY OF CALIFORNIA, RIVERSIDE, CALIF.
- 934 Guinn, V. P., Potter, J. C.
Nematocide residues. Determination of total bromine residues in agricultural crops by instrumental neutron activation analysis.
J. Agri. and Food Chem., **10**, No. 3, 232-236 (May-June 1962).
 (ENGLISH). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.
- 935 Buchanan, J. D., Guinn, V. P.
Analysis of foods by neutron-activation techniques.
Food Tech., **17**, 17-22 (1963).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 936 To-on, M., Sicilio, F., Wainerdi, R. E.
Determination of phosphorus by fast-neutron activation analysis.
Trans. Am. Nucl. Soc., **7**, 328 (1964).
 (ENGLISH). TEXAS A+M, TEXAS.
- 937 Wayman, C. H.
Determination of total sulfur in water by neutron activation analysis.
Anal. Chem., **35**, 768-769 (1963).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLO.

Bull. Soc. Chim. France, 244–247 (1963).

(FRENCH). CENTRE COMMUN DE RECHERCHE, EURATOM, ISPRA, ITALY.

- 938 Jacobson, A., Brar, S. S., Fields, T., Fels, I. G., Kaplan, E., Gustafson, P. F., Oester, Y. T.
Practical application of neutron activation analysis for the determination of protein bound metals in blood serum.
J. Nucl. Med., **2**, 289–296 (1961).
 (ENGLISH). HINES AND ARGONNE, ILLINOIS.

- 943 Helby, P., Rygard, J.
Activation analysis applied to determination of gold in urine from patients with rheumatoid arthritis treated with gold–sodium–thiosulfate.
Acta Rheum. Scand., **8**, 222–228 (1962).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPT. OF PHYSICAL MEDICINE, COPENHAGEN COUNTY HOSPITAL, GLOSTRUP, DENMARK.

- 939 Rakovic, M., Talpova, H.
The use of non–destructive activation analysis for the estimation of sodium in biologic material.
Casopis Lekarů Ceskych, **103**, 632–635 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH, FRENCH AND SPANISH SUMMARIES). CHARLES UNIVERSITY, PRAGUE.

- 944 Kennedy, J. H., Bethard, W. F., Schmitt, R. A., Olehy, D. A.
Neutron activation analysis in the study of pulmonary disease: The use of an atomic reactor as a laboratory instrument.
J. Thoracic and Cardiovas. Surg., **44**, 570–576 (1962).
 (ENGLISH). SAN DIEGO, CALIF.

- 940 Monnier, D., Haerdi, W., Vogel, J.
Radiochemical analysis by activation with thermal neutrons: Determination of cobalt by measuring the activity of meta stable cobalt–60 (half–life of 10.5 minutes).
Helv. Chim. Acta, **44**, 1565–1573 (1961).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE MINERALE, DE CHIMIE ANALYTIQUE ET DE MICROCHIMIE DE L'UNIVERSITE DE GENEVE.

- 945 Kamemoto, Y., Yamagishi, S.
Determination of sodium, arsenic, antimony and copper in carbon by neutron–activation analysis.
Bull. Chem. Soc. Japan, **36**, 132–136 (1963).
 (ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI-KEN, JAPAN.

- 941 Simon, L.
Neutron activation analysis of minerals and rocks.
Jaderna Energie, **6**, 409–414 (1960).
 (CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH AND GERMAN SUMMARIES). HORNICKY USTAV CSAV, PRAHA.

- 946 Bate, L. C., Hampton, W. J., Leddicotte, G. W.
Non–destructive analysis of uranium in graphite fuel elements by neutron activation.
 ORNL-TM–64, 6p. (November 28, 1961).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

- 942 Pauly, J., Girardi, F.
Determination by neutron activation of impurities contained in organic substance employed in nuclear technology.

- 947 Hara, R.
Chemistry research based on research reactors.
At. Energy Rev., **1**, No. 1, 93–140 (1963).
 (ENGLISH). INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 948 Groshev, L. V., Demidov, A. M.,
Pelekhov, V. I.
**The determination of small amounts
of gadolinium and samarium
impurities by the method of
gamma-ray, spectral analysis
after an (n, gamma) reaction.**
AEC-TR-4686, 7p. (December 8,
1961).
(ENGLISH TRANSLATION). RUSSIA.
- 949 Zaitsev, E. I., Zalesskii, V. Y.
**Determining lithium in samples by
a nuclear-physical method.**
Industrial Laboratory, **27**, 565-568
(1961).
(ENGLISH TRANSLATION). RUSSIA.
- 950 Adams, F., Hoste, J.
**Determination of antimony in lead
by neutron-activation analysis.**
Talanta, **9**, 827-834 (1962).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 951 Yule, H. P.
**Reactor pulsing in activation
analysis.**
Trans. Am. Nucl. Soc., **7**, 326-327
(1964).
(ENGLISH). GENERAL ATOMICS, SAN
DIEGO, CALIF.
- 952 Kelley, W. D., Twitty, B. I.
**An improved procedure for the
determination of U²³⁵ in impure
uranium materials using neutron
activation techniques.**
TID-15359, 8p. (January 24, 1963).
(ENGLISH). NATIONAL LEAD COMPANY
OF OHIO, CINCINNATI, OHIO.
- 953 Kim, C. K., Meinke, W. W.
**Thermal neutron-activation
analysis of titanium using
5.8-minute titanium-51 and rapid
radiochemical separations.**
Talanta, **10**, 83-89 (1963).
(ENGLISH) ((GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 954 Robinson, J. R.
**A technique for neutron activation
of phosphorus compounds on paper
chromatograms.**
Can. J. Biochem and Physio., **40**,
1460-1463 (1962).
(ENGLISH). THE RESEARCH
INSTITUTE, CANADA DEPARTMENT OF
AGRICULTURE, UNIVERSITY SUB POST
OFFICE, LONDON, ONTARIO, CANADA.
- 955 Corth, R.
**Determination of tantalum in
tungsten by activation analysis.**
Anal. Chem., **34**, 1607-1608 (1962).
(ENGLISH). WESTINGHOUSE LAMP
DIVISION, METALS RESEARCH
SECTION, BLOOMFIELD, N.J.
- 956 Okada, M., Kamemoto, Y.
**Rapid non-destructive analysis for
gold in copper-gold mixtures by
neutron activation.**
Nature, **197**, 278-279 (1963).
(ENGLISH). GOVERNMENT CHEMICAL
INDUSTRIAL RESEARCH INSTITUTE,
HON-MACHI, SHIBUYA-KU, TOKYO,
JAPAN.
- 957 Okada, M., Kamemoto, Y.
**Rapid microdetermination of indium
by neutron activation.**
Nature, **197**, 279 (1963).
(ENGLISH). GOVERNMENT CHEMICAL
INDUSTRIAL RESEARCH INSTITUTE,
HON-MACHI, SHIBUYA-KU, TOKYO,
JAPAN.
- 958 Nelson, L. C.
**Neutron activation of some rare
earth composites.**
NBL-117, 27-29 (1956).
(ENGLISH). USA.
- 959 Solberg, D. E., Wethington, J. A.,
Parkinson, T. F.
**Quantitative determination of
oxygen-18 by activation analysis.**
Nature, **197**, 611-612 (1963).
(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, UNIVERSITY OF
FLORIDA, GAINSVILLE, FLORIDA.
- 960 Tada, K., Fujii, I., Adachi, T.,
Ogawa, K.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Activation analysis with fast neutrons.**
AEC-TR-5637, 6p. (April 8, 1963).
(ENGLISH TRANSLATION-JAPANESE).
TOKYO SHIBAURA ELECTRIC CO.,
TOKYO, JAPAN.
- 961 Kehler, P., Monaghan, R.
Activation analysis of ocean bottom cores.
TID-18125, 16p. (November 1962).
(ENGLISH). DRESSER RESEARCH,
TULSA, OKLAHOMA.
- 962 Wagner, H. N., Nelp, W. B.,
Dowling, J. H.
Use of neutron activation analysis for studying stable iodide uptake by the thyroid.
J. Clin. Invest., **40**, 1984-1992 (1961).
(ENGLISH). DIAGNOSTIC RADIOISOTOPE LABORATORY, THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, BALTIMORE, MARYLAND.
- 963 Moeller, D. W., Leddicotte, G. W.
Neutron-activation analysis of whole milk for stable strontium.
ORNL-2866, 22, 29 (February 18, 1960).
(ENGLISH). U.S. PUBLIC HEALTH SERVICE, ROBERT A. TAFT SANITARY ENGINEERING CENTER, CINCINNATI, OHIO.
- 964 Leddicotte, G. W., Emery, J. F.,
Grimanis, A. P.
Geochemical applications of neutron-activation analysis.
ORNL 2866, 30 (February 18, 1960).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 965 Dimitriadou, A., Turner, P. C. R.,
Fraser, T. R.
Activation analysis of paper chromatograms for iodine (^{127}I → ^{128}I).
Nature, **197**, 446-449 (1963).
(ENGLISH). DEPARTMENT OF MEDICINE, POSTGRADUATE MEDICAL SCHOOL AND THE MEDICAL RESEARCH COUNCIL CYCLOTRON UNIT, LONDON, ENGLAND.
- 966 Parkinson, T. F., Grant, L. G.
Activation analysis of particulate air contaminants.
Nature, **197**, 479-480 (1963).
(ENGLISH). DEPARTMENT OF NUCLEAR ENGINEERING, UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.
- 967 Okada, T., Nishi, T., Matsumoto, C.
Radioactivation analysis of hafnium in zirconium.
AEC-TR-4482, 404-409 (1960).
(ENGLISH TRANSLATION).
ENGINEERING RESEARCH INSTITUTE,
KYOTO UNIVERSITY, JAPAN.
- 968 Lundberg, M., Soremark, R.,
Thilander, H.
The concentration of some elements in the enamel of unerupted (impacted) human teeth.
Odontol. Revy, **16**, 8-11 (1965).
(ENGLISH). HARVARD SCHOOL OF DENTAL MEDICINE, BOSTON, MASS., AND THE FACULTY OF ODONTOLOGY, UNIVERSITY OF UMEA, SWEDEN.
- 969 Shimelevich, Y. S.
Procedure of activation analysis of rocks under borehole conditions.
AEC-TR-4475, 151-156 (1961).
(ENGLISH TRANSLATION). INSTITUTE OF PETROLEUM, ACADEMY SCIENCES USSR, RUSSIA.
- 970 Mackintosh, W. D., Jervis, R. E.
The determination of arsenic in biological materials.
CRDC-958, 11p. (August 1960).
(ENGLISH). ATOMIC ENERGY OF CANADA LIMITED, CHEMISTRY AND METALLURGY DIVISION, CHALK RIVER, ONTARIO, CANADA.
- 971 Nakai, T., Yajima, S., Shiba, K.
Determination of uranium in low grade ores by neutron activation.
Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2-3, 1958, 1 (1958).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 972 Dibbs, H. P.
Activation analysis with a neutron generator.
 Mines Branch Research Report R-155, 86p. (February 1965).
 (ENGLISH). DEPARTMENT OF MINES AND TECHNICAL SURVEYS, OTTAWA, CANADA.
- 973 Bate, L. C., Leddicotte, G. W.
Particle-size distribution in thorium oxide, neutron activation—sedimentation method.
 Oak Ridge Master Analytical Manual, Method Nos. 5 10200 9 082104 (7-31-59).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 974 Emery, J. F., Leddicotte, G. W.
Aluminum determination in reactor cooling water.
 ORNL CF-58-9-20, 3p. (September 1958).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 975 Strickland, E. H., Benson, A. A.
Neutron activation paper chromatographic analysis of phosphatides in mammalian cell fractions.
Arch. Biochem. Biophys., **88**, 344-348 (1960).
 (ENGLISH). DEPARTMENT OF PHYSICS AND DEPARTMENT OF AGRICULTURAL AND BIOLOGICAL CHEMISTRY, THE PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PENNSYLVANIA.
- 976 Robinson, J. R.
Neutron activation of phosphorus compounds on paper chromatograms.
Canadian Nucl. Tech., **1**, No. 5, 25-27 (1962).
 (ENGLISH). RESEARCH INSTITUTE, CANADA DEPARTMENT OF AGRICULTURE, LONDON, ONTARIO, CANADA.
- 977 Girardi, G., Pauly, J.
Determination of trace impurities in organic materials by neutron activation analysis.
 EUR 432.F, 24p. (October 1963).
 (FRENCH) (ENGLISH SUMMARY). EURAEC, EURATOM, JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.
- 978 Aidarkin, B. C., Gorshkov, G. V., Grammakov, A. G., Zhadin, V. S., Kolchina, A. G.
A method of determining beryllium in ores by means of photoneutrons.
 AEC-TR-4498, 99-105 (1961).
 (ENGLISH TRANSLATION). RUSSIA.
- 979 Lewis, J. E.
Experience with neutron activation in the analysis of aluminum.
Symposium on Radioisotopes in Metals Analysis and Testing, 46-51, ASTM Special Tech. Publ. No. 261 (1959).
 (ENGLISH). ALCOA RESEARCH LABORATORIES, NEW KENSINGTON, PA.
- 980 Cosgrove, J. F.
Neutron activation analysis of traces of molybdenum in tungsten.
Symposium on Radioisotopes in Metals Analysis and Testing, 40-43, ASTM Special Tech. Publ. No. 261 (1959).
 (ENGLISH). GENERAL TELEPHONE AND ELECTRONICS LABORATORIES, INC., BAYSIDE, N.Y.
- 981 Winchester, J. W., Bate, L. C., Leddicotte, G. W.
Determination of Li^6 in aqueous solution by neutron activation analysis.
 ORNL CF-59-7-127, 6p. (July 10, 1959).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 982 Kiesl, W., Bildstein, H., Hecht, F.
Activation analysis determination of impurities in aluminum. II. Determination of copper and dysprosium.
Radiochim. Acta, **1**, 123-125 (1963).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). REAKTORZENTRUM SEIBERSDORF DER OSTERREICHISCHEN STUDIENGESELLSCHAFT FUR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ATOMENERGIE GES.M.B.H. (SGAE) UND
ANALYTISCHES INSTITUT DER
UNIVERSITÄT WIEN, AUSTRIA.

983 Goldstein, G.

**Determination of beryllium by the
photoneutron method.**

Anal. Chem., **35**, 1620–1623 (1963).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

984 Stefanov, G., Nenov, N., Zhivkov,
Z., Mihailov, M., Popov, H.,
Georgiev, N., Tomov, T.,
Tolgyessy, Y.

**Neutron activation determination
of silver in ores and rocks.**

Compt Rend. Acad. Bulgare Sci.,
18, No. 5, 425–428 (1965).

(ENGLISH). GEOLOGICAL RESEARCH
INSTITUTE, SOFIA, BULGARIA AND
CHEMICOTECHNICAL INSTITUTE,
FACULTY OF CHEMISTRY, BRATISLAVA,
CZECHOSLOVAKIA.

985 Rakovskii, E. E., Smakhtin, L. A.,
Yakovlev, Y. V.

**The determination of
microimpurities in high purity
antimony by the radioactivation
method of analysis.**

Industrial Laboratory, **26**,
1383–1385 (1961).

(ENGLISH TRANSLATION). V.I.
VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY OF THE ACADEMY OF
SCIENCES OF THE USSR, RUSSIA.

986 Van Zanten, B., Decat, D.,
Leliaert, G.

**Elementary analysis of fluorine by
neutron activation.**

*Intern. J. Appl. Radiation
Isotopes*, **14**, 105–111 (1963).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). STUDIECENTRUM
VOOR KERNENERGIE, MOL, BELGIUM.

987 Brune, D.

Activation analysis of aluminum.
Nukleonik, **3**, 318–320 (1961).

(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.

988 Ehmann, W. D., Setser, J. L.

**Zirconium and hafnium in stone
meteorites.**

Science, **139**, 594–595 (1963).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

989 Weiner, J. R., O Connor, J. J.,
Rubin, B.

**A rapid neutron activation method
for determining chromium in ruby
maser and laser crystals.**

J. Electrochem. Soc., **110**,
1160–1162 (1963).

(ENGLISH). AIR FORCE CAMBRIDGE
LABORATORIES, OFFICE OF AEROSPACE
RESEARCH, L.G. HANSCOM FIELD,
BEDFORD, MASS.

990 Okada, M.

**Rapid determination of tungsten in
steel by neutron activation and
gamma-ray spectrometry.**

Nature, **196**, 1088 (1962).

(ENGLISH). GOVERNMENT CHEMICAL
INDUSTRIAL RESEARCH INSTITUTE,
TOKYO, I-CHOME, HON-MACHI,
SHIBUYA-KU, TOKYO, JAPAN.

991 Nishigaki, S.

**Use of radioisotope and stable
isotope tracers in research on
soil-plant relations in Japan.**

*Intern. J. Appl. Radiation
Isotopes*, **13**, 335–342 (1962).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, NATIONAL INSTITUTE OF
AGRICULTURAL SCIENCES,
NISHIGAHARA, KITAKU, TOKYO,
JAPAN.

992 Kamemoto, Y., Yamagishi, S.

**Determination of impurities in
graphite by neutron activation
analysis.**

Nippon Kagaku Zasshi, **83**, 572–573
(1962).

(JAPANESE) (ENGLISH SUMMARY).
CHEMISTRY DIVISION, JAPAN ATOMIC
ENERGY RESEARCH INSTITUTE,
TOKAIMURA, IBARAKI, JAPAN.

993 Sanders, F. W., Auxier, J. A.

**Neutron activation of sodium in
anthropomorphic phantoms.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Health Physics*, **8**, 371–379 (1962).
(ENGLISH). HEALTH PHYSICS
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 994 Kamemoto, Y., Yamagishi, S.
**Determination of cobalt in
graphite by activation analysis.**
Nippon Kagaku Zasshi, **83**,
1156–1157 (1962).
(JAPANESE) (ENGLISH SUMMARY).
DIVISION OF CHEMISTRY, JAPAN
ATOMIC ENERGY RESEARCH INSTITUTE,
TOKAIMURA, IBARAKI, JAPAN.
- 995 Nakai, T., Kamemoto, Y., Wey, M.
T.
**Determination of gold, manganese
and sodium in copper metal by
neutron activation analysis.**
Nippon Kagaku Zasshi, **83**,
1194–1197 (1962).
(JAPANESE) (ENGLISH SUMMARY).
DIVISION OF CHEMISTRY, JAPAN
ATOMIC ENERGY RESEARCH INSTITUTE,
NAKA-GUN, IBARAKI, JAPAN.
- 996 Monaghan, R., Youmans, A. H.,
Bergan, R. A., Hopkinson, E. C.
**Instrumentation for nuclear
analysis of the lunar surface.**
Trans. Nucl. Sci., **NS-10**, 183–189
(January 1963).
(ENGLISH). DRESSER RESEARCH,
TULSA, OKLAHOMA.
- 997 Yajima, S., Kamemoto, Y., Shiba,
K., Onoda, Y.
**The determination of trace
impurities in gold and silver
metals by activation analysis.**
Nippon Kagaku Zasshi, **82**, 194–197
(1961).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, NAKA-GUN, IBARAKI,
JAPAN.
- 998 Nakai, T., Yajima, S., Fujii, I.,
Kamemoto, Y., Shiba, K.
**The determination of rare earth
elements in thorium metal and
thorium oxide by activation
analysis.**
Nippon Kagaku Zasshi, **82**, 197–200
(1961).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, NAKA-GUN, IBARAKI,
JAPAN.
- 999 Yamagata, N., Iwashima, K.,
Tajima, E.
**Determination of rubidium and
cesium by neutron activation
followed by gamma spectrometry.**
J. Atomic Energy Soc., Japan, **4**,
534–539 (1962).
(ENGLISH). DEPT. RADIOLOGICAL
HEALTH, THE INST. PUBLIC HEALTH,
JAPAN.
- 1000 Broser, I., Franke, K. H.
**Trace analysis of copper in zinc
sulfide phosphors by means of
neutron activation.**
Z. Physik, **172**, 520–529 (1963).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR ELEKTRONENMIKROSKOPIC
AM FRITZ-HABER-INSTITUT DER
MAX-PLANCK GESELLSCHAFT,
BERLIN-DAHLEM, GERMANY.
- 1001 Kaiser, D. G., Meinke, W. W.
**Rapid activation analysis of trace
vanadium in tissue using
3.8-minute vanadium-52.**
Anal. Chim. Acta, **29**, 211–214
(1963).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 1002 Ehmann, W. D.
**On some tantalum abundances in
meteorites and tektites.**
Geochim. Cosmochim. Acta, **29**,
43–48 (1965).
(ENGLISH). UNIV. OF KENTUCKY,
LEXINGTON, KENTUCKY.
- 1003 Kamemoto, Y., Yamagishi, S.
**Determination of hafnium in
zirconium by neutron activation
analysis.**
J. Chem. Soc. Japan, **84**, 270–272
(1963).
(JAPANESE). JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1004 Kamemoto, Y.
Determination of impurities by neutron activation analysis, (II). Determination of Ar in air, He and Cu by neutron activation analysis.
J. Atomic Energy Society, Japan, **5**, 48-51 (1963).
 (JAPANESE) (ENGLISH SUMMARY).
 DIV. OF CHEM., JAPAN ATOMIC ENERGY RES. INST., JAPAN.
- 1005 Nagy, L. G., Bodnar, J., Demjen, Z., Sandor, J., Szekrenyesy, T.
Neutron activation investigation of impurities of high purity gallium.
Periodica Polytech., **7**, 147-167 (1963).
 (ENGLISH). DEPARTMENT FOR PHYSICAL CHEMISTRY, POLYTECHNICAL UNIVERSITY, BUDAPEST, HUNGARY.
- 1006 Veres, A.
Photo-activation of cadmium-111m and indium-115m by cobalt-60 irradiation.
Intern. J. Appl. Rad. and Isotopes, **14**, 123-128 (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). NATIONAL ATOMIC ENERGY COMMISSION, INSTITUTE OF ISOTOPES, BUDAPEST, HUNGARY.
- 1007 Lbov, A. A., Naumova, I. I.
Determination of gold impurities by a method of radiation.
Industrial Laboratory, **28**, 1577-1579 (1962).
 (ENGLISH TRANSLATION). RUSSIA.
- 1008 Okada, M.
Rapid determination of ytterbium in aqueous solutions and in thulium oxide by neutron activation.
Nature, **191**, 1090 (1961).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, I-CHOME, HON-MACHI, SHIBUYA-KU, TOKYO, JAPAN.
- 1009 Kamemoto, Y., Yamagishi, S.
Determination of impurities by neutron activation analysis, (I).
Determination of cobalt in nickel by activation analysis.
J. Atomic Energy Soc. Japan, **4**, 866-868 (1962).
 (JAPANESE) (ENGLISH SUMMARY).
 DIV. OF CHEM., JAPAN ATOMIC ENERGY RES. INST., JAPAN.
- 1010 Von-Gunten, H. R., Wytenbach, A., Scherle, W.
Determination of chlorine in stony meteorites by neutron activation analysis.
Geochim. Cosmochim. Acta, **29**, 475-480 (1965).
 (ENGLISH). EIDG. INSTITUT FUR REAKTORFORSCHUNG, WURENLINGEN, SWITZERLAND.
- 1011 Okada, M.
Simultaneous determination of scandium and dysprosium by neutron activation followed by gamma-ray spectrometry.
Nature, **188**, 575-576 (1960).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, HONMACHI, SHIBUYA-KU, TOKYO, JAPAN.
- 1012 Wytenbach, A., Von-Gunten, H. R., Scherle, W.
Determination of bromine content and isotopic composition of bromine in stony meteorites by neutron activation.
Geochim. Cosmochim. Acta, **29**, 467-474 (1965).
 (ENGLISH). EIDG. INSTITUT FUR REAKTORFORSCHUNG, WURENLINGEN, SWITZERLAND.
- 1013 Rommel, H.
Boron determination by activation analysis using the nuclear reaction $^{11}\text{B}(p,n)^{11}\text{C}$.
Kernenergie, **5**, 859-860 (1962).
 (GERMAN). MITTEILUNG AUS DEM ZENTRALINSTITUT FUR KERNPHYSIK, BEREICH RADIOCHEMIE, ROSSENDORF BEI DRESDEN, GERMANY.
- 1014 Otvos, J. W., Guinn, V. P., Lukens, H. R., Wagner, C. D.
Photoactivation and photoneutron

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- activation analysis.**
Nucl. Instr. Meth., **11**, 187–195 (1961).
 (ENGLISH). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIF
- 1015 Fujii, I.
Determination of the individual rare earth elements in the rare earth minerals by neutron activation method. (II).
Determination of the individual rare earth elements in gadolinite, xenotime, fergusonite, euxenite and yttrialite.
J. Atomic Energy Soc. Japan, **3**, 186–192 (1961).
 (JAPANESE) (ENGLISH SUMMARY). MATSUDA RES. LAB., TOKYO SHIBAURA ELECT. CO., JAPAN.
- 1016 Fujii, I.
Determination of the individual rare earth elements in the rare earth minerals by neutron activation method. (I).
Determination of the individual rare earth elements in monazite and allanite.
J. Atomic Energy Soc. Japan, **3**, 9–18 (1961).
 (JAPANESE) (ENGLISH SUMMARY). MATSUDA RES. LAB., TOKYO SHIBAURA ELEC., CO., JAPAN.
- 1017 Vogt, J. R., Ehmann, W. D.
Silicon abundances in stony meteorites by fast neutron activation analysis.
Geochim. Cosmochim. Acta, **29**, 373–383 (1965).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 1018 Suzuki, N., Kudo, K.
A new method of radioactivation analysis based on the quantitative isotope dilution principle.
Anal. Chim. Acta, **32**, 456–464 (1965).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). RESEARCH INSTITUTE
- OF MINERAL DRESSING AND METALLURGY, TOHOKU UNIVERSITY, SENDAI, JAPAN.
- 1019 Ishimori, T., Fujino, T.
The determination of isotopic ratio of $^{235}\text{U}/^{238}\text{U}$ by neutron activation.
J. Atomic Energy Soc. Japan, **4**, 16–24 (1962).
 (ENGLISH). CHEM. DIV., JAPAN ATOMIC ENERGY RES. INST., JAPAN.
- 1020 Anbar, M., Mantel, M., Guttman, S.
The determination of serum protein-bound iodine by neutron activation.
 IA-900, 121–123 (1963).
 (ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, SOREQ ESTABLISHMENT, REHOVOTH, ISRAEL.
- 1021 Okada, M.
Rapid determination of ytterbium by neutron activation and γ -ray spectrometry.
Nippon Kagaku Zasshi, **83**, 85–87 (1962).
 (JAPANESE) (ENGLISH SUMMARY). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, SHIBUYA-KU, TOKYO, JAPAN.
- 1022 Setser, J. L., Ehmann, W. D.
Zirconium and hafnium abundances in meteorites, tektites and terrestrial materials.
Geochim. Cosmochim. Acta, **28**, 769–782 (1964).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 1023 Notea, A., Nir, A., Amiel, S.
An O^{18} analyser based on the $\text{O}^{18}(\alpha, n)\text{Ne}^{21}$ reaction.
 IA-900, 113 (1963).
 (ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, SOREQ ESTABLISHMENT, REHOVOTH, ISRAEL.
- 1024 Union Carbide
Radioisotope sales campaigns

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- opened by GE, UC. UC expects to quadruple its analysis business.
Nucleonics, **21**, No. 2, 28 (1963).
(ENGLISH). UNION CARBIDE CO., OAK RIDGE, TENN.
- 1025 Welwart, Y., Cingoli, F.
Activation analysis.
IA-900, 13 (1963).
(ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, SOREQ ESTABLISHMENT, REHOVOTH, ISRAEL.
- 1026 Pierce, T. B., Peck, P. F., Henry, W. M.
Determination of carbon in steels by measurement of the prompt γ -radiation emitted during proton bombardment.
Nature, **204**, 571-572 (1964).
(ENGLISH). ANALYTICAL CHEMISTRY BRANCH, AERE, HARWELL, BERKS, ENGLAND.
- 1027 Schutz, D. F.
The geographical and vertical distribution of several trace elements in sea water.
TID-21067, 140p. (April 1964).
(ENGLISH). YALE UNIVERSITY, DEPARTMENT OF GEOLOGY.
- 1028 Pierce, T. B., Peck, P. F.
A rapid solvent-extraction sampling technique for neutron-activation analysis.
Analyst, **88**, 603-607 (1963).
(ENGLISH). ANALYTICAL CHEMISTRY BRANCH, AERE, HARWELL, DIDCOT, BERKS., ENGLAND.
- 1029 Wainerdi, R. E., Dubeau, N. P.
Nuclear activation analysis.
Science, **139**, 1027-1033 (1963).
(ENGLISH). AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, COLLEGE STATION, TEXAS.
- 1030 Radwan, M., Walis, L.
Determination of the homogeneity of alloys by autoradiography and activation analysis.
Isotopenpraxis, **3**, 398-403 (1967).
- (GERMAN). INSTITUT FÜR KERNFORSCHUNG, WARSZAWA, POLAND.
- 1031 Bate, L. C., Emery, J. F., Leddicotte, G. W., Pro, M. J.
The use of neutron-activation analysis in forensic science.
Trans. Am. Nucl. Soc., **5**, No. 2, 283 (1962).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 1032 Sayre, E. V.
Authentication of ancient artifacts by nuclear means.
Trans. Am. Nucl. Soc., **5**, No. 2, 283 (1962).
(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 1033 Lee, M. B., Ibert, E., Fite, L. E., Wainerdi, R. E.
The use of nuclear-activation analysis to determine the elemental composition of the moon's surface.
Trans. Am. Nucl. Soc., **5**, No. 2, 278-279 (1962).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 1034 Ruch, R. R., Guinn, V. P., Pinker, R. H.
Detection of gunpowder residues by neutron activation analysis.
Trans. Am. Nucl. Soc., **5**, No. 2, 282 (1962).
(ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIFORNIA.
- 1035 Leddicotte, G. W., Ross, W. J., Emery, J. F.
The application of neutron-activation analysis to individual identification.
Trans. Am. Nucl. Soc., **5**, No. 2, 282-283 (1962).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 1036 Tarras, S., Pirtle, O. L.
A commercial application of nuclear activation analysis to the study of air pollution.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Trans. Am. Nucl. Soc.*, **5**, No. 2,
280 (1962).
(ENGLISH). TRACERLAB, RICHMOND,
CALIFORNIA.
- 1037 Morzek, P.
**Activation interferences by self
shielding and flux depression in
activation analysis.**
Kernenergie, **5**, 839–845 (1962).
(GERMAN). MITTEILUNG AUS DEM
ZENTRALINSTITUT FÜR KERNPHYSIK,
BEREICH RADIOCHEMIE, ROSSENDORF
BEI DRESDEN, GERMANY.
- 1038 Nakai, T., Yajima, S., Fujii, I.,
Shiba, K.
**Determination of impurities in
thorium metal and oxide by
radioactivation.**
*Symposium on Radiochemistry,
University of Kyoto, Kyoto,
Japan, November 2–3, 1958*, **2**
(1958).
(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1039 Leddicotte, G. W.
**Neutron activation analysis at
ORNL.**
Oak Ridge Master Analytical
Manual, Method No. 5 10101
(8–3–59).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1040 Morrison, G. H.
Metals analysis by radioactivation.
*Symposium on Radioisotopes in
Metals Analysis and Testing*,
21–30, ASTM Special Tech. Publ.
No. 261 (1960).
(ENGLISH). GENERAL TELEPHONE AND
ELECTRONICS LABORATORIES, INC.,
BAYSIDE, N.Y.
- 1041 Ogborn, R. E., Dunn, A. L.,
Blotcky, A. J., Johnson, G. F.,
James, L. R.
Neutron activation analysis.
Am. J. Roentgenology, **85**, 976–987
(1961).
(ENGLISH). RADIOISOTOPE SERVICE,
VETERANS ADMINISTRATION HOSPITAL,
OMAHA, NEBRASKA.
- 1042 Girardi, F., Pauly, J.
**Neutron activation analysis of
nuclear materials.**
EUR 306.I, 15p. (June 1963).
(ITALIAN) (ENGLISH SUMMARY).
CENTRO COMUNE DI RICERCA
NUCLEARE, STABILIMENTO DI ISPRA,
ITALY.
- 1043 Engelmann, C.
**Activation analysis of very high
purity beryllium obtained by zone
melting.**
CEA DM/1289, 24p. (22 May 1963).
(FRENCH). SERVICE DE RECHERCHES
DE METALLURGIE PHYSIQUE ET
CHIMIQUE, FRANCE.
- 1044 Reynolds, S. A., Mullins, W. T.
**Neutron flux perturbation in
activation analysis.**
*Intern. J. Appl. Rad. and
Isotopes*, **14**, 421–425 (1963).
(ENGLISH) (FRENCH, GERMAN AND
RUSSIAN SUMMARIES). OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE,
TENN.
- 1045 Aubouin, G., Laverlochere, J.
**Ion exchange separations applied
to activation analysis.**
CEA DR/AR/G/63–18, 28p. (May
1963).
(FRENCH). SECTION DES
APPLICATIONS DES RADIOELEMENTS,
LABORATOIRE DE GRENOBLE, FRANCE.
- 1046 Aubouin, G., Guazzoni, P.,
Laverlochere, J.
**Utilization of 14 MeV neutrons in
activation analysis experiments
done at C. E. N.–G.**
CEA DR/AR/G/63–16, 35p. (May
1963).
(FRENCH). SECTION DES
APPLICATIONS DES RADIOELEMENTS,
LABORATOIRE DE GRENOBLE, FRANCE.
- 1047 Rengan, K., Meinke, W. W.
**Rapid radiochemical separation and
activation analysis of rare earth**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- elements.**
Anal. Chem., **36**, 157-161 (1964)
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 1048 Baird, J. N., Sanford, W. R.,
 Cristy, G. A.
**Evaluation of a reduced pressure
 backflow preventer using
 activation analysis.**
 ORNL-3380, 49p. (January 9, 1963).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENN.
- 1049 Korotkova, V. A.
**Method of analysis with the aid of
 radiation.**
 AEC-TR-4492, 134-139 (1961).
 (ENGLISH TRANSLATION). PHYSICS
 INSTITUTE IMENI P.N. LEBEDEV,
 ACADEMY OF SCIENCES USSR, RUSSIA.
- 1050 Bandel, D.
**Technical topics - activation
 analysis.**
Tracerlog, **94**, 7-11 (1958).
 (ENGLISH). TRACERLOG, WALTHAM,
 MASS.
- 1051 Kenna, B. T., Kenna, L. A.
**Simplified method for determining
 sensitivities in activation
 analysis.**
Anal. Chem., **35**, 1766-1768 (1963).
 (ENGLISH). SANDIA CORP.,
 ALBUQUERQUE, N.M.
- 1052 Schrader, C. D., Waggoner, J. A.,
 Metzger, A. E., Zenger, J. H.
Analyzing the moons surface.
Nucleonics, **20**, No. 10, 67-68
 (1962).
 (ENGLISH). THE AEROSPACE CORP. EL
 SEGUNDO, CALIF.
- 1054 Meinke, W. W., Shideler, R. W.
**Activation analysis: New
 generators and techniques make it
 routine.**
Nucleonics, **20**, No. 3, 60-65
 (1962).
 (ENGLISH). UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 1055 Anders, O. U.
**Activation analysis for plant
 stream monitoring.**
Nucleonics, **20**, No. 2, 78-83
 (1962).
 (ENGLISH). THE DOW CHEMICAL
 COMPANY, MIDLAND, MICH.
- 1056 Guinn, V. P.
**Modern neutron activation analysis
 — new techniques and new
 applications.**
 GA-4373, 17p. (July 23, 1963).
 (ENGLISH). GENERAL ATOMIC
 DIVISION OF GENERAL DYNAMICS, SAN
 DIEGO, CALIF.
- 1057 Souliotis, A. G.
**Combined radiochemical-neutron
 activation analysis method for
 the determination of sulfur and
 phosphorus in high-purity paper
 and beer.**
Anal. Chem., **36**, 811-814 (1964).
 (ENGLISH). CHEMISTRY DEPARTMENT,
 NUCLEAR RESEARCH CENTER,
 DEMOCRITUS, ATHENS, GREECE.
- 1058 Fite, L. E., Steele, E. L.,
 Wainerdi, R. E., Ibert, E.,
 Wilkins, W. W.
**An investigation of computer
 coupled automatic activation
 analysis and remote lunar
 analysis. Chapter I. The Mark II
 system.**
 TID-18257, 1-16 (February 1,
 1963).
 (ENGLISH). ACTIVATION ANALYSIS
 RESEARCH LABORATORY, TEXAS
 ENGINEERING EXPERIMENT STATION,
 TEXAS A AND M, COLLEGE STATION,
 TEXAS.
- 1059 Antunez, H. M.
**Determination of fission product
 background in the gamma
 coincidence technique for U²³⁸
 measurements.**
Nuclear Sci. and Eng., **14**, 8-10
 (September 1962).
 (ENGLISH). VALLECITOS ATOMIC
 LABORATORY, GENERAL ELECTRIC CO.,
 PLEASANTON, CALIFORNIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1060 Winchester, J. W., Mullins, W. T.,
Wright, H. W., Leddicotte, G. W.,
Meyer, R. E., Bate, L. C.
**Determination of film thickness by
neutron-activation analysis.**
ORNL-2866, 31 (February 18, 1960).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1061 Dakhnov, V. N.
**Achievements of national science
and industry in using radioactive
methods for prospecting and
developing useful minerals.**
AEC-TR-4475, 11p. (1960).
(ENGLISH TRANSLATION). RUSSIA.
- 1062 Baranov, V. I., Khristianov, V.
K., Karasev, B. V.
**The photoneutronic method of
determination of the
concentration of deuterium in
natural water.**
DEG Information Series 123 (AA),
6p. (1961).
(ENGLISH TRANSLATION). RUSSIA.
- 1063 Nakai, T., Yajima, S., Fujii, I.,
Okada, M.
**Activation analysis of impurities
in semiconductor materials.**
*Symposium on Radiochemistry,
University of Kyoto, Kyoto,
Japan, November 2-3, 1958, 2-3*
(1958).
(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1064 Adams, F., Hoste, J.
**Non-destructive activation
analysis of arsenic and antimony
in lead.**
Talanta, **10**, 1093-1102 (1963).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). INSTITUTE FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 1065 Ricci, E., Hahn, R. L.
**Theory and experiment in rapid,
sensitive helium-3 activation
analysis. Helium-3 reactions as
neutron sources.**
Anal. Chem., **37**, 742-748 (1965).
(ENGLISH). ANALYTICAL CHEMISTRY
- DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 1066 Adams, F., Hoste, J., Speecke, A.
**Determination of silver in lead by
neutron-activation analysis.**
Talanta, **10**, 1243-1249 (1963).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 1067 Miyoshi, K.
**A 14 MeV neutron-activation
analysis unit for oxygen
determination.**
Toshiba Rebyu, **20**, 671-676 (July
1965).
(JAPANESE) (ENGLISH SUMMARY).
TAMAGAWA WORKS, TOKYO SHIBAURA
ELECTRIC CO., LTD., JAPAN.
- 1068 Alimarin, I. P., Yakovlev, Y. V.,
Shchulepnikov, M. N., Vlasov, D.
A., Chernov, G. M., Surkov, Y. A.
**Radioactivation determination of
impurities in high purity
thallium.**
J. Anal. Chem. USSR, **16**, 221-224
(1961).
(ENGLISH TRANSLATION). V.I.
VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES,
USSR, MOSCOW, RUSSIA.
- 1069 Allina, Z., Otwinowski, W.
**Determination of microtrace
content of copper, zinc, and
arsenic in nitric and
hydrochloric acids by the neutron
activation analysis.**
Chem. Anal. (Warsaw), **9**, 203-211
(1964).
(POLISH) (ENGLISH SUMMARY).
DEPARTMENT OF TECHNICAL PHYSICS,
INSTITUTE OF GENERAL CHEMISTRY,
WARSZAWA, POLAND.
- 1070 Amiel, S., Welwart, Y.
**Lithium and lithium-6 analysis by
counting delayed neutrons.**
Anal. Chem., **35**, 566-570 (1963).
(ENGLISH). ISRAEL ATOMIC ENERGY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

COMMISSION LABORATORIES,
REHOVOTH, ISRAEL.

TID—16599, 34p., June 29, 1962.
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

1071 Anbar, M., Peisach, M., Rafaeloff,
R.
**Determination of oxygen by F¹⁸
counting in organic Li-0 systems.**
*Bull. of Research Council of
Israel*, **10A**, 23-24 (1961).

(ENGLISH). ISOTOPE DEPT.,
WEIZMANN INSTITUTE OF SCIENCE,
REHOVOTH, ISRAEL.

1077 Bate, L. C., Pro, M. J.
**Application of activation analysis
to forensic science—II. Drugs.**
*Intern. J. Appl. Radiation
Isotopes*, **15**, 111-114 (1964).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE,
TENNESSEE.

1072 Anders, O. U.
**Identification of a previously
unassigned 5-second bromine
activity and its use in neutron
activation analysis.**
Anal. Chem., **34**, 1678-1680 (1962).

(ENGLISH). RADIOCHEMISTRY
RESEARCH LABORATORY, THE DOW
CHEMICAL CO., MIDLAND, MICHIGAN.

1078 Beck, J. S., Manney, T. R.
**Neutron activation analysis for
phosphorus in a study of
development in a beetle wing.**
Science, **137**, 865-866 (1962).

(ENGLISH). DONNER LABORATORY OF
BIOPHYSICS AND MEDICAL PHYSICS,
UNIVERSITY OF CALIFORNIA,
BERKELEY.

1073 Armstrong, A. A., Walsh, W. K.,
Teszler, O., Rutherford, H. A.
**Activation analysis in textile
processing.**
Textile Research J., **32**, 728-734
(1962).

(ENGLISH). DEPARTMENT OF TEXTILE
CHEMISTRY, SCHOOL OF TEXTILES,
NORTH CAROLINA STATE COLLEGE,
NORTH CAROLINA.

1079 Beller, L. S.
**Beta-gamma delayed coincidence
method for ²³⁸U activation
analysis.**
Trans. Am. Nucl. Soc., **4**, 28-29
(1961).

(ENGLISH). ATOMICS INTERNATIONAL.

1074 Ascoli, A., Germagnoli, E.
**Intermetallic diffusion in
gold-lead systems.**
Pure and Appl. Chem., **1**, 139-141
(1960).

(ENGLISH). LABORATORI, C.I.S.E.,
MILAN, ITALY.

1080 Bilefield, L. I., Vincent, E. A.
**Determination of cadmium in rocks
by neutron-activation analysis.**
Analyst, **86**, 386-391 (1961).

(ENGLISH). DEPARTMENT OF GEOLOGY
AND MINERALOGY, UNIVERSITY
MUSEUM, OXFORD, ENGLAND.

1075 Bate, L. C.
**Nuclear methods of oxygen
analysis.**
Nucleonics, **21**, No. 7, 72-75
(1963).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

1081 Bisby, H.
**Instrumentation for beryllium
assessment.**
Nuclear Power, **5**, 100-103 (1960).

(ENGLISH) SENIOR PRINCIPAL
SCIENTIST, ELECTRONICS DIVISION,
UKAEA HARWELL, ENGLAND.

1076 Bate, G. L., Huizenga, J. R.
**Abundances of ruthenium, osmium
and uranium in some cosmic and
terrestrial sources.**

1082 Bisby, H.
**Nucleonic instrumentation for the
detection and assay of beryllium
minerals.**
UKAEA AERE-R 3021, 27p. (October
1959).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). ELECTRONICS DIVISION,
UKAEA RESEARCH GROUP, AERE,
HARWELL, ENGLAND.
- 1083 Bisby, H., Hale, F. H.
**Alpha and gamma irradiation
techniques for beryllium
determination.**
UKAEA PG-Report 171, 43-54 (1960).
(ENGLISH). ELECTRONICS DIVISION,
AERE, HARWELL, ENGLAND.
- 1084 Blackburn, R.
**Determination of fluorine in
organic compounds by fast neutron
activation analysis.**
Anal. Chem., **36**, 669-671 (1964).
(ENGLISH). ROYAL MILITARY COLLEGE
OF SCIENCE, SHRIVENHAM, SWINDON,
WILTSHIRE, ENGLAND.
- 1085 Bouten, P., Hoste, J.
**The determination of sulphur and
phosphorus in steel by neutron
activation analysis.**
Anal. Chim. Acta, **27**, 315-319
(1962).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 1086 Bowen, H. J. M., Cawse, P. A.
**The determination of inorganic
elements in biological tissue by
activation analysis.**
AERE-R 4309, 40p. (May 1963).
(ENGLISH). ISOTOPE RESEARCH
DIVISION, UKAEA RESEARCH GROUP,
WANTAGE RESEARCH LABORATORY
(AERE), WANTAGE, ENGLAND.
- 1087 Bowen, H. J. M., Cawse, P. A.,
Daglish, M.
**The determination of calcium and
magnesium in biological material
by radioactivation analysis.**
Analyst, **89**, 266-271 (1964).
(ENGLISH). WANTAGE RESEARCH
LABORATORY (AERE), WANTAGE,
BERKSHIRE, ENGLAND.
- 1088 Brooksbank, W. A., Leddicotte, G.
W., Mahlman, H. A.
**Analysis for trace impurities by
neutron activation.**
ORNL-CF-53-10-52, 15p. (October
23, 1953).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1089 Brune, D., Frykberg, B., Samsahl,
K., Wester, P. O.
**Determination of elements in
normal and leukemic human whole
blood by neutron activation
analysis.**
AE-60, 16p. (November 1961).
(ENGLISH). CHEMISTRY DEPARTMENT,
AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 1090 Buchanan, J. D.
**Determination of thorium and
uranium in graphite by
instrumental neutron activation
analysis.**
GA-2211, 28p. (January 18, 1962).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO,
CALIFORNIA.
- 1091 Busch, G., Schade, H., Gobbi, A.,
Marmier, P.
**Detection of boron on silicon
surfaces with activation
analysis.**
J. Phys. Chem. Solids, **23**, 513-514
(1962).
(GERMAN) (ENGLISH SUMMARY).
LABORATORIUM FÜR FESKORPERPHYSIK,
ETH, ZÜRICH.
- 1092 Cali, J. P., Weiner, J. R., O
Connor, J. J.
**A non-destructive radioanalytical
method for the determination of
gallium in substituted yttrium
iron garnets.**
Nature, **199**, 1081-1082 (1963).
(ENGLISH). AFCRL, OFFICE OF
AEROSPACE RESEARCH, L.G. HANSCOM
FIELD, BEDFORD, MASS.
- 1093 Chemical and Engineering News
**Students explore neutron
activation.**
Chem. and Eng. News, **41**, 52 (April

ACTIVATION ANALYSIS—ACCESSION NUMBERS

8, 1963).
(ENGLISH). USA.

Energia Nucleare (Milan), **8**,
571-578 (1961).
(ENGLISH) (ITALIAN SUMMARY).
SORIN, SALUGGIA, ITALY.

1094 Carr, M. H., Turekian, K. K.
The geochemistry of cobalt.
Geochim. Cosmochim. Acta, **23**, 9-60
(1961).
(ENGLISH). DEPARTMENT OF GEOLOGY,
YALE UNIVERSITY, NEW HAVEN, CONN.

1100 Christell, R., Sjostrand, B.
**A simplified method for the
determination of arsenic by means
of activation analysis.**
Acta Chem. Scand., **16**, 2123-2130
(1962).
(ENGLISH). DIVISION OF NUCLEAR
CHEMISTRY, ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

1095 Cattaneo, F., Germagnoli, E.,
Schiavini, G.
**Activation analysis of
zone-refined gold.**
Energia Nucleare, **9**, 467-471
(1962).
(ENGLISH) (ITALIAN SUMMARY).
LABORATORI CISE, SEGRATE, MILANO,
ITALY.

1101 Cobb, J. C.
**Determination of lead in
meteorites by alpha activation
analysis.**
BNL-5628, 1-14 (October 8, 1960).
(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, LONG ISLAND, N.Y.

1096 Cheng, H. S., Ke, C. H., Lin, C.
Y.
**Determination of bromine and
iodine in sodium glutamate by
neutron activation analysis.**
J. Chinese Chem. Soc. (Taiwan),
10, 92-100 (1963).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, NATIONAL TSING HUA
UNIVERSITY, CHINA.

1102 Cockbill, M. H.
**The determination of tantalum and
niobium.**
Analyst, **87**, 611-629 (1962).
(ENGLISH). RESEARCH DEPARTMENT,
LONDON AND SCANDINAVIAN
METALLURGICAL CO. LTD., LONDON,
ENGLAND.

1097 Chinaglia, B., Ciuffolotti, L.,
Fasolo, G. B., Malvano, R.
**Use of short-lived radionuclides
in activation analysis.**
Energia Nucleare (Milan), **9**,
503-512 (1962).
(ENGLISH). (ITALIAN SUMMARY).
SORIN, CENTRO RICERCHE NUCLEARI,
SALUGGIA, ITALY.

1103 Coleman, R. F.
**The determination of oxygen by
fast-neutron activation.**
Analyst, **87**, 590-593 (1962).
(ENGLISH). UKAEA, AWRE,
ALDERMASTON, BERKS, ENGLAND.

1098 Chinaglia, B., Malvano, R.
**Analyses of aluminum by neutron
radioactivation.**
Automazione e Strumentazione, **9**,
92-96 (1961).
(ITALIAN). SORIN, CENTRO
RICERCHE NUCLEARI DI SALUGGIA,
ITALY.

1104 Coleman, R. F.
**The determination of oxygen in
beryllium by activation analysis.**
UKAEA PG Report 171, 73-80 (1960).
(ENGLISH). AWRE, ALDERMASTON,
ENGLAND.

1099 Chinaglia, B., Malvano, R.
**The determination of some elements
in aluminium by non destructive
radioactivation analysis.**

1105 Comar, D., Lepoec, C., Joly, M.,
Kellersohn, C.
**Radioactivation analysis.
Application to the determination
of iodine, mercury, copper,
manganese and zinc in biological
materials.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Bull. Soc. Chim. France*, **1**, 56–71 (1962).
(FRENCH). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTEMENT DE BIOLOGIE, SERVICE HOSPITALIER FREDERIC JOLIOT, GIF-SUR-YVETTE, FRANCE.
- 1106 Bilefield, L. I.
The determination of silver by activation with bremsstrahlung.
Analyst, **87**, 504–508 (1962).
(ENGLISH). UKAEA, AWRE, ALDERMASTON, BERKS., ENGLAND.
- 1107 Czamanske, G. K., Roedder, E., Burns, F. C.
Neutron activation analysis of fluid inclusions for copper, manganese, and zinc.
Science, **140**, 401–403 (1963).
(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASSACHUSETTS.
- 1108 Dalziel, J. A. W., Hsia, R. C. H.
Determination of traces of copper in rubber latex ash by neutron activation analysis.
J. Sci. Food Agric., **12**, 127–130 (1961).
(ENGLISH). DEPARTMENT OF CHEMISTRY, IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, LONDON, S.W.7, ENGLAND.
- 1109 Sankar Das, M.
Determination of microgram amounts of uranium by neutron activation analysis using the 23.5-minute ²³⁹U.
TID-18304 (ORA 04997-1-P), 15p. (November 1962).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 1110 Dimitriadou, A., Turner, P. C. R., Fraser, R.
Activation analysis of paper chromatograms for iodine (iodine – 127 → iodine – 128).
Nature, **198**, 576–577 (1963).
(ENGLISH). DEPARTMENT OF MEDICINE, POSTGRADUATE MEDICAL SCHOOL AND THE MEDICAL RESEARCH COUNCIL CYCLOTRON UNIT, LONDON, ENGLAND.
- 1111 Kusaka, Y., Tsuji, H.
Activation analysis of silver using radium–beryllium neutron source.
Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2–3, 1958, 3 (1958).
(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, KOBE, JAPAN.
- 1112 Conrad, F. J., Kenna, B. T.
Neutron activation analysis of manganese in polysulfide materials.
Talanta, **14**, No. 11, 1339–1340 (1967).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). ANALYTICAL METHOD DEVELOPMENT, SANDIA LABORATORY, ALBUQUERQUE, NEW MEXICO.
- 1113 Ferenczy, Z.
Role of polarography in activation analysis.
Acta Chim. Acad. Sci. Hung., **26**, 229–234 (1961).
(FRENCH). INSTITUT DE RECHERCHES CHIMIQUES DES INDUSTRIES LOURDES, VESZPREM, FRANCE.
- 1114 Fineman, I., Westermark, T.
Activation analysis of manganese in pulp.
Intern. J. Appl. Radiation Isotopes, **8**, 186–191 (1960).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.
- 1115 Fujii, I., Tani, A., Muto, H., Ogawa, K., Sato, M.
A rapid method for praseodymium by 14 MeV neutron activation. Application of gamma–gamma coincidence method to the rapid determination of praseodymium.
J. Atomic Energy Soc. Japan, **5**,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- No. 3, 218–224 (1963).
(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RES. LAB., TOKYO SHIBAURA
ELEC. CO., TOKYO, JAPAN.
- 1116 Fujii, I., Muto, H., Ogawa, K.,
Tani, A.
**Determination of oxygen by 14 MeV
neutron activation analysis using
a new analytical instrument.**
J. Atomic Energy Soc. Japan, **5**,
No. 6, 455–461 (1963).
(ENGLISH). CENTRAL RES. LAB.,
TOKYO SHIBAURA ELEC. CO., TOKYO,
JAPAN.
- 1117 Ehmann, W. D.
**Nickel in tektites by activation
analysis.**
Geochim. Cosmochim. Acta, **19**,
149–155 (1960).
(ENGLISH). THE UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 1118 Gebauhr, W., Martin, J.
**Activation analytical
investigation of high-purity
silicon.**
Z. Anal. Chem., **200**, 266–278
(1964).
(GERMAN) (ENGLISH SUMMARY). AUS
DEM FORSCHUNGLABORATORIUM DER
SIEMENS-SCHUCKERTWERKE AG,
ERLANGEN, GERMANY.
- 1119 Gijbels, R., Hoste, J.
**The determination of traces of
osmium in ruthenium sponge by
neutron activation analysis.**
Anal. Chim. Acta, **29**, 289–302
(1963).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 1120 Meinke, W. W.
**Application of rapid radiochemical
separations to the activation
analysis of biological samples.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques*, 145–155, Presses
Universitaires de France, Paris,
France (1964).
(ENGLISH). NBS, WASHINGTON, D.C.
- 1121 Ruzicka, J., Zeman, A., Obrusnik,
I.
**A new principle of activation
analysis separations—IX.
Substoichiometric determination
of traces of bismuth.**
Talanta, **12**, No. 4, 401–407
(1965).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
NUCLEAR CHEMISTRY, FACULTY OF
TECHNICAL AND NUCLEAR CHEMISTRY,
PRAGUE, BREHOVA, CZECHOSLOVAKIA.
- 1122 Goles, G. G., Anders, E.
**On the geochemical character of
iodine in meteorites.**
J. Geophys. Res., **66**, 3075–3077
(1961).
(ENGLISH). ENRICO FERMI
INSTITUTE FOR NUCLEAR STUDIES AND
DEPARTMENT OF CHEMISTRY,
UNIVERSITY OF CHICAGO, CHICAGO,
ILLINOIS.
- 1123 Grand, J. A., Baus, R. A., Bogard,
A. D., Williams, D. D., Lockhart,
L. B., Miller, R. R.
**The solubility of tantalum and
cobalt in sodium by activation
analysis.**
J. Phys. Chem., **63**, 1192–1194
(1959).
(ENGLISH). CHEMISTRY DIVISION,
NAVAL RESEARCH LABORATORY,
WASHINGTON, D.C.
- 1124 Gruverman, I. J., Henninger, W. A.
**Neutron activation analysis of
alloy steel and electro-etch
residues for sixteen elements.**
Anal. Chem., **34**, 1680–1683 (1962).
(ENGLISH). NUCLEAR SCIENCE AND
ENGINEERING CORP., PITTSBURGH,
PENNSYLVANIA.
- 1125 Hamaguchi, H., Kawabuchi, K.,
Onuma, N.
**Determination of trace quantities
of tin by neutron activation
analysis.**
Anal. Chim. Acta, **30**, 335–345

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (1964).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY, TOKYO KYOIKU UNIVERSITY, KOISHIKAWA, TOKYO, JAPAN.
- 1126 Bowen, H. J. M.
On the necessity of biological standards in activation analysis.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 199–210, Presses Universitaires de France, Paris, France (1964).
(FRENCH) (ENGLISH SUMMARY). WANTAGE, ENGLAND.
- 1127 Hamaguchi, H., Kuroda, R., Hosohara, K., Shimizu, T.
Thermal neutron activation analysis of tantalum in sea water.
J. Atomic Energy Soc. Japan, 5, No. 8, 662–665 (1963).
(JAPANESE) (ENGLISH SUMMARY). DEPT. CHEM., FACULTY SCIENCE, TOKYO KYOIKU UNIV., JAPAN.
- 1128 Hamaguchi, H., Kuroda, R., Watanabe, Y.
Tantalum contents of deep sea sediments.
Nippon Kagaku Zasshi, 84, 723–726 (1963).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, TOKYO KYOIKU UNIVERSITY, BUNKYO-KU, TOKYO, JAPAN.
- 1129 Mark, H. B., Berlandi, F. J.
Application of controlled potential electrodeposition with pyrolytic graphite electrodes to neutron activation analysis and radiochemistry.
Anal. Chem., 36, 2062–2064 (1964).
(ENGLISH). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 1130 Herforth, L., Koch, H.
Activation analysis.
Radiophysikalisches und Radiochemisches Grundpraktikum,
- Vol. 31, Chapter VII, 227–249, VEB Deutscher Verlag der Wissenschaften (1959).
(GERMAN). GERMANY.
- 1131 Ke, C. H., Lin, C. Y., Cheng, H. S.
Determination of soil potassium by nondestructive activation analysis.
J. Chinese Chem. Soc. (Taiwan), 11, No. 4, 193–201 (1964).
(ENGLISH). NATIONAL TSING HUA UNIVERSITY, HSINCHU, TAIWAN.
- 1132 Aitken, M. J., Emeleus, V. M., Hall, E.
Neutron activation analysis of ancient silver coins.
Intern. J. Appl. Radiation Isotopes, 9, 150 (1960).
(ENGLISH). RESEARCH LABORATORY FOR ARCHAEOLOGY AND THE HISTORY OF ART, UNIVERSITY OF OXFORD, OXFORD, ENGLAND.
- 1133 Jaskolska, H., Wodkiewicz, L., Minczewski, J.
Determination of trace impurities in high purity materials by neutron activation analysis. I. The behaviour of some elements in the course of analysis.
Chem. Anal. (Warsaw), 9, 453–458 (1964).
(ENGLISH) (POLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.
- 1134 Samsahl, K., Brune, D., Wester, P. O.
Simultaneous determination of 30 trace elements in cancerous and non-cancerous human tissue samples by neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, 16, 273–281 (1965).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 1135 Jaskolska, H., Wodkiewicz, L., Minczewski, J.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Determination of trace impurities in high purity materials by neutron activation. II. Analysis of HCl, HNO₃ and H₂O₂ for semiconductor applications.

Chem. Anal. (Warsaw), **9**, 459–467 (1964).

(ENGLISH) (POLISH SUMMARY).
DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.

1136 Iredale, P.

The detection of beryllium by the gamma-n method.

AERE-EL/M 108, 12p. (May 1960).

(ENGLISH). ELECTRONICS DIVISION, UKAEA RESEARCH GROUP, AERE, HARWELL, ENGLAND

1137 Kim, C. K.

Analysis of tantalum and niobium by neutron activation of short-lived radionuclides.

Production and Use of Short-Lived Radioisotopes from Reactors, Vol. **II**, 73–78, Proceedings of a Seminar, 5–9 November 1962, Vienna (1962).

(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). DEPARTMENT OF CHEMISTRY, ATOMIC ENERGY RESEARCH INSTITUTE, SEOUL, KOREA.

1138 Aubouin, G.

Activation analysis of mineral impurities in terphenyls and their determination by gamma spectrometry.

Radiochim. Acta, **1**, 117–123 (1963).

(FRENCH) (GERMAN AND ENGLISH SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE-FRANCE, DEPARTEMENT DES RADIOELEMENTS, CEN-GRENOBLE, FRANCE.

1139 Kamemoto, Y., Yamagishi, S.

Re-activation analysis of magnesium.

Nature, **201**, 65–66 (1964).

(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, DIVISION OF CHEMISTRY, TOKAI-MURA, NAKA-GUN, IBARAKI, JAPAN.

1140 Kamemoto, Y., Yamagishi, S.

Determination of aluminum by double activation analysis.

Nippon Kagaku Zasshi, **84**, 291 (1963).

(JAPANESE) (ENGLISH SUMMARY).
DIVISION OF CHEMISTRY, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI, JAPAN.

1141 Kanabrocki, E. L., Fields, T.,

Decker, C. F., Case, L. F.,

Miller, E. B., Kaplan, E.,

Oester, Y. T.

Neutron activation studies of biological fluids: Manganese and copper.

Intern. J. Appl. Radiation Isotopes, **15**, 175–189 (1964).

(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). RADIOISOTOPE SERVICE, VETERANS ADMINISTRATION HOSPITAL, HINES, ILLINOIS.

1142 Kawashima, T.

A note on the radioactivation analysis of arsenic in pure silicon.

Denki Tsushin Kenkyusho Kenkyu Jitsuyoka Hokoku, **9**, 827–828 (1960).

(JAPANESE). JAPAN.

1143 Kellershohn, C., Comar, D.,

Lepoec, C.

Determination of the sanguine iodine content by activation analysis.

Intern. J. Appl. Radiation Isotopes, **13**, 87–103 (1961).

(FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTMENT DE BIOLOGIE SERVICE HOSPITALIER FREDERIC JOLIOT, GIF-SUR-YVETTE, (S. ET O.), FRANCE.

1144 Okada, M., Okubo, T.

Utilization of graphs for presumption of interfering activity in radioactivation analysis.

Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2–3, 1958, 3–4 (1958).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). THE GOVERNMENT
CHEMICAL INDUSTRIAL RESEARCH
INSTITUTE, TOKYO, JAPAN
- 1145 Kemp, D. M., Smales, A. A.
**The determination of vanadium in
rocks and meteorites by
neutron-activation analysis.**
Anal. Chim. Acta, **23**, 397-410
(1960).
- (ENGLISH) (FRENCH AND GERMAN
SUMMARIES). AERE, HARWELL,
ENGLAND.
- 1146 Killick, R. A., Morris, D. F. C.
**The determination of traces of
arsenic and antimony in samples
of platinum by neutron-activation
analysis.**
Talanta, **9**, 879-884 (1962).
- (ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE,
LONDON, ENGLAND.
- 1147 Killick, R. A., Morris, D. F. C.
**The determination of traces of
ruthenium in samples of platinum
by neutron activation analysis.**
Talanta, **9**, 349-353 (1962).
- (ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE OF
TECHNOLOGY, LONDON, ENGLAND.
- 1148 Sippel, R. S.
**Quantitative analysis by charged
particle bombardment.**
Analysis Instrumentation-1963,
251-260, New York, Plenum Press
(1963).
- (ENGLISH). SOCONY MOBIL FIELD
RESEARCH LABORATORY, DALLAS,
TEXAS.
- 1149 Kirk, P. L.
**Some forensic problems amenable to
radioisotope techniques.**
Trans. Am. Nucl. Soc., **5**, 282
(Nov. 1962).
- (ENGLISH). UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.
- 1150 Kramer, H. H., Molinski, V. J.,
Wahl, W. H., Stier, P. M.
**Research in activation analysis.
Quarterly progress report April -
August 1962.**
NYO-10171, 10p. (September 19,
1962).
- (ENGLISH). UNION CARBIDE NUCLEAR
CO., DIVISION OF UNION CARBIDE
CORP., RESEARCH CENTER, TUXEDO,
N.Y.
- 1151 Saito, K., Nozaki, T., Tanaka, S.,
Furukawa, M., Cheng, H.
**Radioactivation analysis of oxygen
in high-purity silicon by
irradiation with alpha-particles.**
*Intern. J. Appl. Radiation
Isotopes*, **14**, 357-363 (1963).
- (ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). INSTITUTE FOR
NUCLEAR STUDY, THE UNIVERSITY OF
TOKYO, TANASHI, TOKYO, JAPAN.
- 1152 Kusaka, Y., Tsuji, H., Adachi, T.
**Experimental sensitivity data for
radioactivation analysis with 14
MeV neutrons.**
Bull. Chem. Soc. Japan, **36**,
1259-1261 (1963).
- (ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
KONAN UNIVERSITY, HIGASHINADA-KU,
KOBE, JAPAN.
- 1153 Nozaki, T., Baba, H., Araki, H.
**Radioactivation-analysis of iodine
in silicon.**
*Symposium on Radiochemistry,
University of Kyoto, Kyoto,
Japan, November 2-3, 1958*, 4
(1958).
- (ENGLISH). LABORATORY FOR
ELECTRO-COMMUNICATION, TOKYO,
JAPAN.
- 1154 Hamaguchi, H., Nakai, T.
**Sensitivities of neutron
activation analysis using JRR-1
reactor.**
*Symposium on Radiochemistry,
University of Kyoto, Kyoto,
Japan, November 2-3, 1958*, 6
(1958).
- (ENGLISH). TOKYO UNIVERSITY OF
EDUCATION, TOKYO, JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1155 Ideno, E., Nakai, T., Hamaguchi, H.
Determination of tungsten in iron meteorites by neutron activation.
Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2-3, 1958, 6-7 (1958).
 (ENGLISH). TOKYO UNIVERSITY OF EDUCATION, TOKYO, JAPAN.
- 1156 Leliaert, G., Decat, D.
The determination of copper by radioactivation.
Intern. J. Appl. Radiation Isotopes, 10, 63-64 (1961).
 (ENGLISH). CENTRE D'ETUDES DE L'ENERGIE NUCLEAIRE, MOL-DONK, BELGIUM.
- 1157 Leonhardt, W.
Determination of fluorine traces by activation in the reactor.
Kernenergie, 6, 45-46 (1963).
 (GERMAN). MITTEILUNG AUS DEM ZENTRALINSTITUT FUR KERNPHYSIK, BEREICH RADIOCHEMIE, ROSSENDORF BEI DRESDEN, GERMANY.
- 1158 Leonhardt, W.
The sensitivity of oxygen determination by activation analysis in reactors.
Kernenergie, 5, 166-170 (1962).
 (GERMAN). ZENTRALINSTITUT FUR KERNPHYSIK, BEREICH RADIOCHEMIE, ROSSENDORF BEI DRESDEN, GERMANY.
- 1159 Lerch, P., Kreienbuhl, L.
The application of radiochemical analytical methods to the determination of zinc and calcium traces in gallium.
Chimia (Switz.), 15, 519-522 (1961).
 (GERMAN) (ENGLISH SUMMARY). RADIOCHEMISCHES LABORATORIUM DES INSTITUT FUR ANORGANISCHE, ANALYTISCHE, ANALYTISCHE UND PHYSIKALISCHE CHEMIE, UNIVERSITAT BERN, SWITZERLAND.
- 1160 Levine, C. A., Surls, J. P.
Rapid, nondestructive determination of beryllium using Van de Graaff x-rays.
Anal. Chem., 34, 1614-1617 (1962).
 (ENGLISH). THE DOW CHEMICAL CO., WESTERN DIVISION, PITTSBURG, CALIF.
- 1161 Lightowers, E. C.
Determination of submicrogram quantities of aluminum in natural diamonds by neutron activation analysis.
Anal. Chem., 34, 1398-1402 (1962).
 (ENGLISH). WHEATSTONE PHYSICS LABORATORY, KINGS COLLEGE, UNIVERSITY OF LONDON, STRAND, LONDON, ENGLAND.
- 1162 Lobanov, E. M., Romanov, O. M., Romanov, M. M., Khaidarov, A. A.
Determination of the copper and manganese contents of ores by neutron radioactivation analysis.
J. Anal. Chem. USSR, 16, 23-26 (1961).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES, UZBEKH SSSR, TASHKENT, RUSSIA.
- 1163 Lukens, H. R., Otvos, J. W., Wagner, C. D.
Production of metastable isomers by photoexcitation.
Trans. Am. Nucl. Soc., 3, 414-415 (1960).
 (ENGLISH). USA.
- 1164 Maddock, R. S., Meinke, W. W.
Activation analysis. Nuclear chemical research. Radiochemical separations. Progress Report No. 10.
 TID-14310, 152p. (November 1, 1961).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 1165 Aubouin, G., Dugain, F., Laverlochere, J.
Determination of impurities in tantalum and niobium by neutron radio activation.
Bull. Soc. Chim. France, 2, 547-551 (1965).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (FRENCH). DR/SAR, CEN GRENOBLE, FRANCE.
- 1166 Makasheva, I. E., Maslov, I. A., Obukhov, A. P.
Radioactivation analysis of semiconducting silicon by means of a multi-channel gamma-spectrometer.
J. Anal. Chem. USSR, **15**, 375-379 (1960).
 (ENGLISH TRANSLATION). PHYSICO-TECHNICAL INSTITUTE, ACADEMY OF SCIENCES, USSR, LENINGRAD, RUSSIA.
- 1167 Malvano, R., Fasolo, G. B.
Simultaneous determination of nickel and cobalt traces by neutron activation analysis.
Anal. Chim. Acta, **30**, 223-226 (1964).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). SORIN, CENTRO RICERCA NUCLEARI, SALUGGIA, VERCELLI, ITALY.
- 1168 Mapper, D., Fryer, J. R.
The use of dithizone-cellulose acetate columns of increased capacity in the determination of indium by Pierce and Peck's neutron activation method.
Analyst, **87**, 297 (1962).
 (ENGLISH). ANALYTICAL CHEMISTRY BRANCH, CHEMISTRY DIVISION, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.
- 1169 Amiruddin, A., Ehmann, W. D.
Tungsten abundances in meteoritic and terrestrial materials.
Geochim. Cosmochim. Acta, **26**, 1011-1022 (1962).
 (ENGLISH). UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 1170 Matsumura, Y., Fujino, R.
Radioactivation analysis of strontium in rat bone ash.
J. Biochem., **49**, 561-565 (1961).
 (ENGLISH). DEPARTMENT OF BIOCHEMISTRY, TOKYO WOMENS MEDICAL COLLEGE, TOKYO, JAPAN.
- 1171 May, S., Pinte, G.
Quantitative determination of cobalt, arsenic, and manganese in nuclear steels by the method of neutron activation.
Bull. Soc. Chim. France, **2**, 287-290 (1962).
 (FRENCH). CEA, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, SECTION DE CINETIQUE CHIMIQUE APPLIQUEE, FRANCE.
- 1172 Meinke, W. W.
Activation analysis utilizing fast radiochemical separations and portable neutron generators.
Use of Radioisotopes in Physical Sciences and Industry, 277-290, Proceedings of the IAEA Conference in Copenhagen, September 1960 (1960).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 1173 Merz, E.
The determination of hafnium and zirconium in meteorites by neutron activation analysis.
Geochim. Cosmochim. Acta, **26**, 347-349 (1962).
 (ENGLISH). ARBEITSGRUPPE RADIOCHEMIE, KERNFORSCHUNGSANLAGE, JULICH, WEST GERMANY.
- 1174 Endo, T., Nakai, T., Hamaguchi, H.
Determination of arsenic and antimony in iron meteorites by neutron activation.
Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2-3, 1958, 7-8 (1958).
 (ENGLISH). TOKYO UNIVERSITY OF EDUCATION, TOKYO, JAPAN.
- 1175 Mezhiborskaya, K. B.
Photoneutron method of determining beryllium.
Photoneutron Method of Determining Beryllium, 30p., State Press for Literature of Atomic Science and Technology, Moscow (1961).
 (ENGLISH TRANSLATION). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1176 Kamemoto, Y., Nakai, T.,
Hamaguchi, H.
**Determination of platinum group
metals in iron meteorites by
neutron activation.**
*Symposium on Radiochemistry,
University of Kyoto, Kyoto,
Japan, November 2-3, 1958, 8
(1958).*
(ENGLISH). TOKYO UNIVERSITY OF
EDUCATION, TOKYO, JAPAN.
- 1177 Mikheeva, L. M., Vikhitill, I.
**Determination of arsenic,
phosphorus, and sulfur in
beryllium oxide by radioactivation
analysis.**
*J. Anal. Chem. USSR, 17, 82-84
(1962).*
(ENGLISH TRANSLATION). M.V.
LOMONOSOV MOSCOW STATE UNIVERSITY
AND THE HIGHER TECHNICAL SCHOOL,
DRESDEN, EAST GERMANY.
- 1178 Milner, G. W. C., Edwards, J. W.
**The determination of beryllium by
the photoneutron method.**
UKAEA PG Report 171, 55-72 (1960).
(ENGLISH). ANALYTICAL CHEMISTRY
BRANCH, AERE, HARWELL, ENGLAND.
- 1179 Bock-Werthmann, W.
**AED information service.
Bibliographic review of selected
subjects.**
AED-C-1402, 217p. (15 February
1963).
(ENGLISH). HAHN-MEITNER INSTITUT
FÜR KERNFORSCHUNG BERLIN,
GERMANY.
- 1180 Morgan, J. W., Lovering, J. F.
**The determination of uranium and
thorium in rocks by neutron
activation analysis.**
*Anal. Chim. Acta, 28, 405-417
(1963).*
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF
GEOPHYSICS, INSTITUTE OF ADVANCED
STUDIES, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, A.C.T.,
AUSTRALIA.
- 1181 Choi, S. S., Tuck, D. G.
**A neutron-activation study of the
solubility of mercury in water.**
J. Chem. Soc., 4080-4088 (1962).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
NOTTINGHAM, ENGLAND.
- 1182 Morris, D. F. C., Killick, R. A.
**The determination of mercury in
rocks by neutron-activation
analysis.**
Talanta, 11, 781-788 (1964).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE,
LONDON, ENGLAND.
- 1183 Morris, D. F. C., Killick, R. A.
**The determination of traces of
cobalt in samples of platinum by
neutron-activation analysis.**
Talanta, 10, 987-990 (1963).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE,
LONDON, W.3, ENGLAND.
- 1184 Morris, D. F. C., Killick, R. A.
**The determination of traces of
iron in samples of platinum by
neutron-activation analysis.**
Talanta, 10, 1153-1157 (1963).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE, LONDON
W.3, ENGLAND.
- 1185 Morris, D. F. C., Slater, D. N.
**Hafnium in the rock G-1 determined
by neutron-activation analysis.**
*Geochim. Cosmochim. Acta, 27, 285
(1963).*
(ENGLISH). DEPARTMENT OF
CHEMISTRY, BRUNEL COLLEGE,
LONDON, ENGLAND.
- 1186 Prouza, Z., Rakovic, M.
**The resonance neutrons in
activation analysis. Part I.
Theory.**
Isotopenpraxis, 3, 389-394 (1967).
(ENGLISH). VETERINARY RESEARCH
CENTRE AND DEPARTMENT OF MEDICAL
PHYSICS AND NUCLEAR MEDICINE,
CHARLES UNIVERSITY, PRAGUE,
CZECHOSLOVAKIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1187 Mosen, A. W., Schmitt, R. A.,
Vasilevskis, J.
**A procedure for the determination
of the rare earth elements,
lanthanum through lutetium, in
chondritic, achondritic and iron
meteorites by neutron-activation
analysis.**
Anal. Chim. Acta, **25**, 10–24
(1961).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). JOHN JAY HOPKINS
LABORATORY FOR PURE AND APPLIED
SCIENCE, GENERAL ATOMIC DIVISION
OF GENERAL DYNAMICS CORP., SAN
DIEGO, CALIF.
- 1188 Mullins, W. T.
**Neutron-activation analysis of
solutions of radioactive
strontium for stable barium.**
ORNL-3060, 36, 42 (February 15,
1961).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1189 Mullins, W. T., Leddicotte, G. W.
**Determination of ^{235}U , ^{238}U , and
 ^{232}Th in beryllium metal by
neutron activation.**
ORNL-3060, 42 (February 15, 1961).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1190 Mullins, W. T., Leddicotte, G. W.
**Radiochemical separations used in
neutron-activation analysis.**
ORNL-3060, 43–46 (February 15,
1961).
(ENGLISH) OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1191 Negina, V. R., Zamyatnina, V. N.
**Quantitative determination of
traces of barium, nickel, copper,
antimony, molybdenum, manganese,
cadmium, tin, gold, and arsenic
in metallic beryllium by a
radioactivation method.**
J. Anal. Chem. USSR, **16**, 217–220
(1961).
(ENGLISH TRANSLATION). RUSSIA.
- 1192 Niemann, E.
**Radioactivation analysis
determination of manganese and
arsenic in graphite reactor
tests.**
Z. Elektrochemie, **64**, 1080–1083
(1960).
(GERMAN). FARBERWERKE HOECHST AG,
VORMALS MEISTER LUCIUS AND
BRUNING, FRANKFURT (M)–HOECHST,
GERMANY.
- 1193 Niese, S., Rommel, H., Morzek, P.,
Herold, C.
**Activation analysis purity testing
of targets for isotope
production.**
Acta Chim. Acad. Sci. Hung., **26**,
235–241 (1961).
(GERMAN). ZENTRALINSTITUT FÜR
KERNPHYSIK, ROSSENDORF, BEREICH
RADIOCHEMIE, GERMANY.
- 1194 Nozaki, T., Tanaka, S., Furukawa,
M., Saito, K.
**Radioactivation analysis of oxygen
in silicon by irradiation with
 α -particles in a cyclotron.**
Nature, **190**, 39–40 (1961).
(ENGLISH). INSTITUTE FOR NUCLEAR
STUDY, UNIVERSITY OF TOKYO,
TANASHI, JAPAN.
- 1195 Okada, M.
**Rapid analysis of erbium by
neutron activation followed by
 γ -ray spectrometry.**
Nature, **188**, 52 (1960).
(ENGLISH). GOVERNMENT CHEMICAL
INDUSTRIAL RESEARCH INSTITUTE,
TOKYO, 1-CHOME, HONMACHI,
SHIBUYA-KU, TOKYO, JAPAN.
- 1196 Okada, M.
**Rapid microdetermination of
scandium and dysprosium in
rare-earth-rich materials by
neutron activation and γ -ray
spectrometry.**
Anal. Chem., **33**, 1949–1953 (1961).
(ENGLISH). GOVERNMENT CHEMICAL
INDUSTRIAL RESEARCH INSTITUTE,
TOKYO, HON-MACHI, SHIBUYA-KU,
TOKYO, JAPAN.
- 1197 Okada, M.
**Rapid determination of rubidium in
caesium nitrate by neutron**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

activation.

Nature, **198**, 577 (1963).

(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, HON-MACHI, SHIBUYA, TOKYO, JAPAN.

1198 Sano, H., Sairenji, E., Saito, N.

Radioactivation analysis of phosphorus in biological materials by (n,p) reaction.

Symposium on Radiochemistry, University of Kyoto, Kyoto, Japan, November 2-3, 1958, 12-13 (1958).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, UNIVERSITY OF TOKYO, TOKYO, JAPAN.

1199 Okada, M.

Rapid microdetermination of dysprosium in terbium oxide by neutron activation and gamma-ray spectrometry.

Bull. Chem. Soc. Japan, **35**, 873-875 (1962).

(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, SHIBUYA-KU, TOKYO, JAPAN.

1200 Okada, M., Kamemoto, Y.

Rapid non-destructive analysis of chlorine by neutron activation.

Nature, **199**, 276 (1963).

(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, HON-MACHI, SHIBUYA-KU, TOKYO, JAPAN.

1201 Kim, C. K., Meinke, W. W.

Simultaneous determination of niobium and tantalum by neutron activation using niobium-94m and tantalum-182m and rapid radiochemical separations.

Anal. Chem., **35**, 2135-2138 (1963).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

1202 Kusaka, Y., Tsuji, H.

Radioactivation analysis of indium using radium plus beryllium neutron source. (Part II) Studies

on neutron irradiation for aqueous solution of a sample.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 95-97 (1959).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, JAPAN.

1203 Otvinovskii, V., Yakovlev, Y. V.

The determination of the selenium content of nicotinic acid by neutron activation analysis.

Acta Chim. Acad. Sci. Hung., **26**, 243-251 (1961).

(RUSSIAN). ABT. FUR TECHNISCHE PHYSIK DER INSTITUT FUR ALLGEMEINE CHEMIE, WARSCHAU, POLAND.

1204 Owens, G. C.

The determination of submicrogram amounts of cobalt and manganese in samples of radioactive stainless steel oxides.

Bettis Technical Review WAPD-BT-24, 89-98 (December 1961).

(ENGLISH). BETTIS ATOMIC POWER LAB., PITTSBURGH, PA.

1205 Pappas, A. C., Alstad, J., Lunde, G.

Determination of trace elements in opium by means of activation analysis. I. Methods of analysis and studies referring to the determination of the origin of opium.

Radiochim. Acta, **1**, 109-117 (1963).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF OSLO, BLINDERN, NORWAY.

1206 Papavasiliou, P. S., Cotzias, G. C.

Neutron activation analysis: The determination of manganese.

J. Biol. Chem., **236**, 2365-2369 (1961).

(ENGLISH). MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL

ACTIVATION ANALYSIS – BIBLIOGRAPHY

LABORATORY, UPTON, L.I., NEW YORK.

- 1207 Lobanov, E. M., Zvyagin, V. I., Kist, A. A., Zverev, B. P., Sviridova, A. I., Moskovtseva, G. A.

Determination of manganese in silicon by a radioactivation method.

J. Anal. Chem. USSR, **18**, 1173–1178 (1963).

(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES, UZB SSR, RUSSIA.

- 1208 Nozaki, T., Baba, H., Araki, H., Kawashima, T.

Neutron activation analysis of halogens in silicon.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8–10, 1959, 98–100 (1959).

(ENGLISH). ELECTRICAL COMMUNICATION LABORATORY, JAPAN.

- 1209 Pierce, T. B., Peck, P. F.

A rapid method for determining indium by neutron activation.

Analyst, **86**, 580–584 (1961).

(ENGLISH). UKAEA, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.

- 1210 Pierce, T. B., Peck, P. F.

The determination of zinc by neutron activation.

Analyst, **87**, 369–373 (1962).

(ENGLISH). UKAEA, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.

- 1211 Pijck, J., Gillis, J., Hoste, J.

The determination of Cu, Cr, Zn and Co in the serum by radioactivation.

Intern. J. Appl. Radiation Isotopes, **10**, 149–157 (1961).

(FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). LABORATOIRE DE CHIMIE ANALYTIQUE, UNIVERSITE DE GAND, BELGIQUE.

- 1212 Reed, G. W., Kigoshi, K., Turkevich, A.

Determinations of concentrations of heavy elements in meteorites by activation analysis.

Geochim. Cosmochim. Acta, **20**, 122–140 (1960).

(ENGLISH). ARGONNE NATIONAL LABORATORY, LEMONT, ILLINOIS.

- 1213 Rhodes, D. F., Mott, W. E.

Rapid determination of aluminum in minerals and rocks by thermal neutron activation analysis.

Anal. Chem., **34**, 1507–1508 (1962).

(ENGLISH). GULF RESEARCH AND DEVELOPMENT CO., PITTSBURGH, PA.

- 1214 Rushbrook, P. R., Ehmann, W. D.

Iridium in stone meteorites by neutron activation analysis.

Geochim. Cosmochim. Acta, **26**, 649–657 (1962).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

- 1215 Shamaev, V. I.

Analysis of microimpurities in selenium and in tellurium by neutron activation.

Radiochemistry, USSR, 113–118 (1960).

(ENGLISH TRANSLATION). RUSSIA.

- 1216 Schroeder, G. L., Winchester, J. W.

Determination of sodium in silicate minerals and rocks by neutron activation analysis.

Anal. Chem., **34**, 96–99 (1962).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASS.

- 1217 Selz, J., Haerdi, W., Monnier, D.

Determination of trace elements in water and other liquids by activation with thermal neutrons, by formation of isotopes of short half lives.

Chimia, **17**, No. 11, 354–355 (1963).

(FRENCH). LABORATOIRES DE CHIMIE MINERALE, DE CHIMIE ANALYTIQUE ET DE MICROCHIMIE, DE L'UNIVERSITE, ECOLE DE CHIMIE DE GENEVE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1218 Sevastyanov, Y. G., Bulanov, L. A., Kaplan, E. P., Nefedov, O. M., Smirnov-Averin, A. P.
An activation method for the quantitative determination of impurities of organically combined sulfur in polyphenyls.
Atomic Energy (USSR), **14**, 325-326 (1963).
 (ENGLISH TRANSLATION). RUSSIA.
- 1219 Simon, L.
The determination of C in iron by the radioactivation method.
Hutnicke Listy, **13**, 708-711 (1958).
 (CZECHOSLOVAKIAN). CZECHOSLOVAKIA.
- 1220 Simpson, H.
The empirical formulae of intermetallic compounds by neutron activation.
Acta Cryst., **17**, 59-60 (1964).
 (ENGLISH). WANTAGE RESEARCH LABORATORIES, AERE, WANTAGE, BERKSHIRE, ENGLAND.
- 1221 Sion, H., Hoste, J., Gillis, J.
Collection of mercury from urine and determination by neutron activation analysis.
Microchemical Techniques, 959-973 (1961).
 (ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, BELGIUM.
- 1222 Smales, A. A., Hughes, T. C., Mapper, D., Mc Innes, C. A. J., Webster, R. K.
The determination of rubidium and caesium in stony meteorites by neutron activation analysis and by mass spectrometry.
Geochim. Cosmochim. Acta, **28**, 209-233 (1964).
 (ENGLISH). ANALYTICAL CHEMISTRY GROUP, AERE, HARWELL, BERKSHIRE, ENGLAND.
- 1223 Isaeva, E. A., Makasheva, I. E., Obukhov, A. P.
Analysis of pure silicon carbide by neutron activation.
J. Anal. Chem. USSR, **18**, 847-850 (1963).
 (ENGLISH TRANSLATION). A.F. IOFFE PHYSICO-TECHNICAL INSTITUTE, ACADEMY OF SCIENCES, USSR, LENINGRAD, RUSSIA.
- 1224 Smith, H.
Estimation of mercury in biological material by neutron activation analysis.
Anal. Chem., **35**, 635-636 (1963).
 (ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW, SCOTLAND.
- 1225 Smith, H., Forshufvud, S., Wassen, A.
Distribution of arsenic in Napoleon's hair.
Nature, **194**, 725-726 (1962).
 (ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF GLASGOW.
- 1226 Ross, W. J.
Activation analysis of high purity materials.
Anal. Chem., **36**, 1114-1119 (1964).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1227 Spitsyn, V. I., Glazunov, M. P., Kodochigov, P. N., Ionov, V. P.
Determination of sodium in metallic tungsten by a radioactivation method.
J. Anal. Chem. USSR, **18**, 1100-1101 (1963).
 (ENGLISH TRANSLATION). INSTITUTE OF PHYSICAL CHEMISTRY, ACADEMY OF SCIENCES, USSR, MOSCOW, RUSSIA.
- 1228 Steele, E. L., Meinke, W. W.
Determination of rhodium by thermal neutron activation analysis using γ -ray spectrometry.
Anal. Chim. Acta, **26**, 269-274 (1962).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1229 Volborth, A.
Total instrumental analysis of rocks. Part B. Oxygen determination by neutron activation.
 Nevada Bureau of Mines Report No. 5, B-1-B-13 (1963).
 (ENGLISH). MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA.
- 1230 Studier, M. H., Postmus, C., Mech, J., Walters, R. R., Sloth, E. N.
A generalized procedure for the isolation of iodine without carrier—its determination by neutron activation using ^{129}I as an isotopic carrier.
 ANL-6577, 10p. (July 1962).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 1231 Todd, R., Cuthbert, G., Dickinson, R.
The determination of antimony and cobalt in magnesium-base alloys by neutron activation analysis.
 UKAEA PG Report 337(S), 38p. (1962).
 (ENGLISH). UKAEA PRODUCTION GROUP, RISLEY, WARRINGTON, LANCASHIRE, ENGLAND.
- 1232 Tomita, I., Saisho, H.
Radioactivation analysis of niobium in tantalum by irradiation with protons in a cyclotron.
Nature, **195**, 1189-1190 (1962).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.
- 1233 Vacik, J. P., Christian, J. E.
Application of neutron activation analysis to the microanalysis of gold-containing pharmaceuticals in biological materials.
J. Pharmaceutical Sciences, **50**, 225-227 (1961).
 (ENGLISH). BIONUCLEONICS DEPARTMENT, SCHOOL OF PHARMACY, PURDUE UNIVERSITY, LAFAYETTE, IND.
- 1234 Van Zanten, B., Decat, D., Leliaert, G.
Activation analysis of molybdenum in plant material.
Talanta, **9**, 213-218 (1962).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, CHEMISTRY DEPARTMENT, MOL, DONK, BELGIUM.
- 1235 Zamyatina, V. N., Chikisheva, L. A.
Quantitative determination of the total rare earth elements, ruthenium, palladium, and platinum in metallic beryllium by an activation method.
Radiochemistry, USSR, **5**, No. 3, 265-268 (1963).
 (ENGLISH TRANSLATION). RUSSIA.
- 1236 Walker, F. W.
The determination of hafnium in Ze-4 and Ze-6 zirconium metal standards by the stable isotope dilution and neutron activation methods.
 KAPL-M-FW-4, 24p. (December 21, 1961).
 (ENGLISH). KNOLLS ATOMIC POWER LABORATORY, GENERAL ELECTRIC CO., SCHENECTADY, NEW YORK.
- 1237 Wayman, C. H.
Simultaneous determination of sulfur and phosphorus in water by neutron activation analysis.
Anal. Chem., **36**, 665-666 (1964).
 (ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.
- 1238 Chepel, L. V., Chapyzhnikov, B. A., Viting, B. I.
A radioactivation method for determining oxygen in certain polymers.
J. Anal. Chem. USSR, **18**, 749-754 (1963).
 (ENGLISH TRANSLATION). L. YA. KARPOV PHYSICO-CHEMICAL INSTITUTE, MOSCOW, RUSSIA.
- 1239 Westermark, T., Sjostrand, B., Bethge, P. O.
Activation analysis of mercury in cellulose products.
Svensk Papperstidning, **63**, 258-262

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(1960).

(ENGLISH) (SWEDISH AND GERMAN SUMMARIES). DIVISION OF PHYSICAL CHEMISTRY, ROYAL INSTITUTE OF TECHNOLOGY, STOCKHOLM, SWEDEN.

of traces of zinc and copper in germanium dioxide.

Talanta, **10**, 685–689 (1963).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF NUCLEAR CHEMISTRY, FACULTY OF NUCLEAR PHYSICS, PRAHA, BREHOVA, CZECHOSLOVAKIA.

1240 Williams, A. I.

The determination of trace impurities in high-purity selenium.

Analyst, **86**, 172–177 (1961).

(ENGLISH). NATIONAL PHYSICAL LABORATORY, TEDDINGTON, MIDDLESEX, ENGLAND.

1245 Zmijewska, W., Kozminska, D.

Determination of trace impurities in aluminum by neutron activation method followed by gamma-ray spectrometry.

Chem. Anal. (Warsaw), **9**, 469–474 (1964).

(ENGLISH) (POLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.

1241 Solvsten, S.

Determination of gold in serum and urine by neutron activation analysis.

Scand. J. Clin. Lab. Invest., **16**, No. 1, 39–44 (1964).

(ENGLISH). DEPARTMENT OF DIAGNOSTIC RADIOLOGY, ISOTOPE LABORATORY, RIGSHOSPITALET, COPENHAGEN, DENMARK.

1246 Zvyagintsev, O. E., Shamaev, V. I.

Determination of some microimpurities in high quality selenium.

J. Anal. Chem. USSR, **14**, 663–666 (1959).

(ENGLISH TRANSLATION). D.I. MENDELEEV MOSCOW CHEMICO-TECHNOLOGICAL INSTITUTE, RUSSIA.

1242 Blomstrand, R., Nakayama, F.

Application of neutron activation paper chromatographic analysis of phospholipids in clinical investigation.

Scand. J. Clin. Lab. Invest., **14**, No. 1, 28–35 (1962).

(ENGLISH). SWEDISH MEDICAL RESEARCH COUNCIL, UNIT FOR BIOCHEMICAL RESEARCH ON ARTEROSCLEROSIS, UNIVERSITY OF LUND, SWEDEN.

1247 Zvyagintsev, O. E., Shamaev, V. I.

Determination of certain microimpurities in high-purity selenium.

J. Anal. Chem. USSR, **15**, 369–373 (1960).

(ENGLISH TRANSLATION). D.I. MENDELEEV MOSCOW CHEMICO-TECHNOLOGICAL INSTITUTE, RUSSIA.

1243 Zeman, A., Sary, J., Ruzicka, J.

A new principle of activation—analysis separations—V.

Substoichiometric determination of traces of indium.

Talanta, **10**, 981–985 (1963).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF NUCLEAR CHEMISTRY, FACULTY OF TECHNICAL AND NUCLEAR PHYSICS, PRAHA, BREHOVA, CZECHOSLOVAKIA.

1248 Anders, O. U., Briden, D. W.

A rapid, nondestructive method of precision oxygen analysis by neutron activation.

Anal. Chem., **36**, 287–292 (1964).

(ENGLISH). RADIOCHEMISTRY RESEARCH LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICH.

1244 Zeman, A., Ruzicka, J., Sary, J.

A new principle of activation analysis separations—II.

Substoichiometric determination

1249 Aten, A. H. W.

Activation analysis.

Chem. Weekblad, **56**, 94–98 (1960).

(DUTCH). INSTITUTE FOR NUCLEAR RESEARCH, AMSTERDAM, NETHERLANDS.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1250 Comar, D.
The determination of iodine in biological media using radioactivation analysis.
 CEA-2095, 61p. (1963).
 (FRENCH) (ENGLISH SUMMARY). CEN, SACLAY, FRANCE.
- 1251 Choy, S. C., Schmitt, R. A.
Gamma-ray spectra analysed by computer programme using the peak area method.
Nature, **205**, 758-760 (1965).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 1252 Born, H. J., Riehl, N.
Activation analysis determination of small amounts of oxygen in solids.
Angew. Chem., **72**, 559-562 (1960).
 (GERMAN). INSTITUT FÜR RADIOCHEMIE UND LABORATORIUM FÜR TECHNISCHE PHYSIK DER T.H. MÜNCHEN, GERMANY.
- 1253 Cali, J. P., Weiner, J. R.
Practical neutron activation analysis for the electronic scientist.
J. Electrochem. Soc., **107**, 1015-1019 (1960).
 (ENGLISH). UNITED STATES AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, AIR RESEARCH AND DEVELOPMENT COMMAND, BEDFORD, MASS.
- 1254 Colombo, U. P., Sironi, G., Fasolo, G. B., Malvano, R.
Systematic neutron activation technique for the determination of trace metals in petroleum.
Anal. Chem., **36**, 802-807 (1964).
 (ENGLISH). GEOCHEMISTRY DEPARTMENT, G. DONEGANI RESEARCH INSTITUTE, MONTECATINI CO., NOVARA, ITALY.
- 1255 Cook, G. B., Crespi, M. B. A., Minczewski, J.
International comparison of analytical methods for nuclear materials—I. Accuracy and precision of some techniques in routine trace analysis.
Talanta, **10**, 917-929 (1963).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). IAEA, SEIBERSDORF LABORATORY, SEIBERSDORF NIEDEROESTERREICH, AUSTRIA.
- 1256 Demildt, A. C.
Microactivation analysis for oxygen in the actinide metals.
Anal. Chem., **35**, 1228-1230 (1963).
 (ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 1257 Kameda, K.
Study on abundance of rare earth elements in marine organisms.
J. Radiation Res. (Japan), **3**, 89-103 (June 1962).
 (ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI, IBARAGI PREF., JAPAN
- 1258 Gilmore, J. T., Hull, D. E.
Neutron flux monitoring for activation analysis of oxygen.
Anal. Chem., **35**, 1623-1625 (1963).
 (ENGLISH). CALIFORNIA RESEARCH CORP., RICHMOND, CALIF.
- 1259 Grunewald, R., Ziemer, P. L., Christian, J. E.
Large volume activation analysis of organically bound iodine using neutron sources.
Anal. Chem., **36**, 1138-1140 (1964).
 (ENGLISH). BIONUCLEONICS DEPARTMENT, PURDUE UNIVERSITY, W. LAFAYETTE, INDIANA.
- 1260 Maxia, V., Meloni, S., Rollier, M. A., Spadaccino, E.
Non-destructive macrodetermination of iridium in osmium by low flux neutronic radioactivation.
Ricerca Scientifica Rend., **A**, **1**, 17-22 (1961).
 (ITALIAN) (FRENCH, ENGLISH AND GERMAN SUMMARIES). INSTITUTO DI CHIMICA GE NERALE, UNIVERSITA DI CAGLIARI, ITALY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1261 Kamemoto, Y., Onoda, Y.
Studies on neutron shielding of metals in thermal neutron activation.
Nippon Kagaku Zasshi, **83**, 1164–1167 (1962).
 (JAPANESE) (ENGLISH SUMMARY).
 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, NAKA-GUN, IBARAKI, JAPAN.
- 1262 Debiesse, J., Challansonnet, J., Neyret, G.
Use of radioelements for the study of oxide cathodes.
Compt. Rend., **232**, 602–604 (1951).
 (FRENCH). FRANCE.
- 1263 Engelmann, C., Gosset, J., Loeuillet, M.
Routine activation analysis of certain impurities of beryllium.
Bull. Soc. Chim. France, **2**, 544–547 (1965).
 (FRENCH). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTMENT DE METALLURGIE, FRANCE.
- 1264 Kiesel, W., Bildstein, H., Sorantin, H.
Activation analytical determination of impurities in aluminum. I. Determination of manganese and gallium.
Mikrochim. Acta, **7**, 151–156 (1963).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). REAKTORZENTRUM SEIBERSDORF DER OSTERR. STUDIENGESSELLSCHAFT FUR ATOMENERGIE GES.M.B.H. UND DEM ANALYTISCHEN INSTITUT DER UNIVERSITAT WIEN, AUSTRIA.
- 1265 Strain, H. H.
Electrochromatographic and neutron-activation procedures for the separation of the alkali metal cations.
Proceedings Japan Conference Radioisotopes, **4th**, 558–561 (1961).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ILLINOIS.
- 1266 Duce, R. A., Wasson, J. T., Winchester, J. W., Burns, F. C.
Atmospheric iodine, bromine, and chlorine.
J. Geophys. Res., **68**, 3943–3947 (1963).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 1267 Kusaka, Y.
Radioactivation analysis of manganese by use of low level neutron source.
Radioisotopes, **6**, 2–5 (1957).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPT. OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, JAPAN.
- 1268 Leddicotte, G. W., Mullins, W. T., Ferguson, R. L., Emery, J. F., Bate, L. C., Strain, J. E.
Quantitative applications.
ORNL-2866, **22**, 24–29 (February 18, 1960).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1269 Lightowers, E. C.
Determination of submicrogram quantities of manganese, sodium, and copper in natural diamonds by neutron activation analysis.
Anal. Chem., **35**, 1285–1290 (1963).
 (ENGLISH). WHEATSTONE PHYSICS LABORATORY, KING'S COLLEGE, UNIVERSITY OF LONDON, STRAND, LONDON, W.C. 2, ENGLAND.
- 1270 Mezhiborskaya, K. B.
Radioactivation determination of beryllium.
Atomic Energy, USSR, **6**, 416 (1959).
 (ENGLISH TRANSLATION). RUSSIA.
- 1271 Rakovic, M.
A simple method for determining gold in biological material by neutron activation analysis.
Atompraxis, **9**, 177–178 (1963).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). BIOPHYSICAL INSTITUTE OF THE MEDICAL FACULTY, CHARLES UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1272 Miyakawa, Y., Kamemoto, Y.
Activation analysis of trace impurities in trichlorosilane.
Nippon Kagaku Zasshi, **83**, 1029-1032 (1962).
 (JAPANESE) (ENGLISH SUMMARY).
 SHIN-ETSU CHEM. IND. CO., LTD.,
 ISOBE PLANT, ANNAKA-SHI, GUNMA,
 JAPAN.
- 1273 Kiesel, W., Sorantin, H., Pfeifer, V.
Activation analytical determination of impurities in aluminum. III. Determination of iron, cobalt, zinc and scandium.
Mikrochim. Acta, No. 5-6, 996-1002 (1963).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). REAKTORZENTRUM SEIBERSDORF DER OSTERREICHISCHEN STUDIENGESSELLSCHAFT FUR ATOMENERGIE GES.M.B.H. UND DEM ANALYTISCHEN INSTITUT DER UNIVERSITAT WIEN, AUSTRIA.
- 1274 Stevancevic, D. B., Hajdukovic, G. T.
Extraction of copper and its determination by radioactivation analysis.
Bilten Instituta za Nuklearne Nauke, Boris Kidric, **15**, No. 3, 193-200 (1964).
 (ENGLISH). INSTITUTA ZA NUKLEARNE NAUKE, BORIS KIDRIC, BEOGRAD, VINCA.
- 1275 Smales, A. A., Mapper, D.
Some trace element determinations of potential application to biological materials.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 157-170, Presses Universitaires de France, Paris, France (1964).
 (ENGLISH). AERE, HARWELL, ENGLAND.
- 1276 Plantin, L. O.
Assessment of the trace elements of blood and tissues by neutron radioactivation and gamma spectroscopy.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 211-222, Presses Universitaires de France, Paris, France (1964).
 (ENGLISH). STOCKHOLM, SWEDEN.
- 1277 Girardi, F., Merlini, M.
Studies on the distribution of trace elements in a mollusk from a freshwater environment by activation analysis.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 23-46, Presses Universitaires de France, Paris, France (1964).
 (ENGLISH). NUCLEAR CHEMISTRY AND BIOLOGY, ISPRA, ITALY.
- 1278 Comar, D., Riviere, R., Kellershohn, C.
The determination of iodine by radioactivation analysis and its application in physiopathological thyroid functions.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 307-336, Presses Universitaires de France, Paris, France (1964).
 (FRENCH). CEN SACLAY, FRANCE.
- 1279 General Dynamics Corporation
Activation analysis service. Survey analysis (multi-element scanning).
 General Dynamics Bulletin, 1p.
 (ENGLISH). GENERAL DYNAMICS, GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 1280 Plaksin, I. N., Smirnov, V. N., Starchik, L. P.
Use of the (α ,n) reaction for the quantitative determination of the beryllium, boron and fluorine content of concentration products.
Soviet J. Atomic Energy, **9**, 899-903 (1960).
 (ENGLISH TRANSLATION). RUSSIA.
- 1281 Girardi, F., Pietra, R.
Determination of calcium, strontium and barium in single

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**crystals of alkali halides by
neutron activation.**

Anal. Chim. Acta, **30**, 188–199
(1964).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). NUCLEAR CHEMISTRY
LABORATORY, C.C.R.-EURATOM,
ISPRA, ITALY.

Industrial Laboratory, **27**,
1250–1254 (1961).
(ENGLISH TRANSLATION) RUSSIA.

1282 Rakovic, M., Talpova, H.

**Preparation of standards for
neutron activation analysis.**

Chem. Listy, **57**, 1183–1186 (1963).

(CZECHOSLOVAKIAN) (RUSSIAN AND
GERMAN SUMMARIES). BIOFYSIKALNI
USTAV, FAKULTA VSEOBECNEHO
LEKARSTVI KU, PRAHA,
CZECHOSLOVAKIA.

1287 Kjellin, K. G.

**Determination of copper in
cerebrospinal fluid by activation
analysis.**

J. Neurochem., **10**, No. 2, 89–93
(1963).

(ENGLISH). DEPARTMENT OF
NEUROLOGY, SERAFIMERLASARETTET,
STOCKHOLM.

1283 Reuland, R. J., Voigt, A. F.

**Activation analysis for sodium in
the sodium tungsten bronzes.**

Anal. Chem., **35**, 1263–1267 (1963).

(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.

1288 Sjostrand, B.

**Simultaneous determination of
mercury and arsenic in biological
and organic materials by
activation analysis.**

Anal. Chem., **36**, 814–819 (1964).

(ENGLISH). DIVISION OF NUCLEAR
CHEMISTRY, ROYAL INSTITUTE OF
TECHNOLOGY, STOCKHOLM, SWEDEN.

1284 Trombka, J. I., Metzger, A. E.

**Neutron methods for lunar and
planetary surface compositional
studies.**

Analysis Instrumentation—1963,
237–250, New York, Plenum Press
(1963).

(ENGLISH). JET PROPULSION
LABORATORY, PASADENA, CALIF.

1289 Soltys, M. N., Morrison, G. H.

**Determination of the stoichiometry
of submilligram samples of
sodium–vanadium bronzes by
instrumental neutron activation
analysis.**

Anal. Chem., **36**, 293–296 (1964).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, CORNELL UNIVERSITY,
ITHACA, N.Y.

1285 Ryabchikov, D. I., Ryabukhin, V.

A.

**Activation chromatographic
analysis of the rare earths.**

J. Anal. Chem. USSR, **17**, 434–443
(1962).

(ENGLISH TRANSLATION). V.I.
VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES,
USSR, MOSCOW, RUSSIA.

1290 U. S. Atomic Energy Commission
**Atomic evidence brings conviction
in federal case involving
distilling and transporting of
moonshine.**

U.S. Atomic Energy Commission
Bulletin G–112, 30 (May 13,
1964).

(ENGLISH). U.S. ATOMIC ENERGY
COMMISSION, WASHINGTON, D.C.

1286 Rychkov, R. S., Glukhareva, N. A.

**Application of the radioactivation
analysis method for determining
microimpurities in semiconductor
materials.**

1291 Stary, J., Ruzicka, J., Zeman, A.
**Substoichiometric determination of
traces of molybdenum by neutron
activation analysis.**

Anal. Chim. Acta, **29**, 103–106
(1963).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF NUCLEAR
CHEMISTRY, FACULTY OF TECHNICAL

ACTIVATION ANALYSIS—BIBLIOGRAPHY

AND NUCLEAR PHYSICS, BREHOVA,
PRAHA, CZECHOSLOVAKIA.

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILL.

1292 Strelow, F. W. E., Stark, H.
**Determination of micro amounts of
calcium in potassium chloride by
neutron activation analysis.**
Anal. Chem., **35**, 1154–1159 (1963).
(ENGLISH). INSTITUTE OF
RADIOCHEMISTRY, TECHNISCHE
HOCHSCHULE, MUNICH, GERMANY.

1293 Turekian, K. K., Carr, M. H.
**Chromium, cobalt and strontium in
some Bureau of Standards rock
reference samples.**
Geochim. Cosmochim. Acta, **24**, 1–9
(1961).
(ENGLISH). DEPARTMENT OF GEOLOGY,
YALE UNIVERSITY, NEW HAVEN, CONN.

1294 Volborth, A., Banta, H. E.
**Oxygen determination in rocks,
minerals, and water by neutron
activation.**
Anal. Chem., **35**, 2203–2205 (1963).
(ENGLISH). OAK RIDGE INSTITUTE OF
NUCLEAR STUDIES, OAK RIDGE, TENN.

1295 Vorres, K. S.
**Neutron activation experiments in
radiochemistry.**
J. Chem. Educ., **37**, 391–395
(1960).
(ENGLISH). STATE UNIVERSITY OF
IOWA, IOWA CITY, IOWA.

1296 Bruner, H. D.
**The possibility of activation
analysis as a tool in the
biochemical science.**
*Proceedings Japan Conference
Radioisotopes, 4th*, 1014–1018
(1961).
(ENGLISH). DIVISION OF BIOLOGY
AND MEDICINE, AEC.

1297 Wing, J.
**Simultaneous determination of
oxygen and silicon in meteorites
and rocks by nondestructive
activation analysis with fast
neutrons.**
Anal. Chem., **36**, 559–564 (1964).

1298 Yagi, M.
**Radioactivation analysis of
vanadium in ferrovanadium by
radium-beryllium neutron source.**
Isotopes and Radiation, **2**, 34–45
(1959).
(JAPANESE) (ENGLISH SUMMARY).
RADIOCHEMISTRY LABORATORY,
SHIZUOKA UNIVERSITY, SHIZUOKA,
JAPAN.

1299 Yajima, S., Kamemoto, Y., Shiba,
K., Onoda, Y.
**Determination of small amounts of
impurities in copper by
activation analysis.**
Nippon Kagaku Zasshi, **82**, 38–41
(1961).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, NAKA-GUN, IBARAKI,
JAPAN.

1300 Yajima, S., Kamemoto, Y., Shiba,
K., Onoda, Y.
**The determination of impurities in
tellurium and selenium by
activation analysis.**
Nippon Kagaku Zasshi, **82**, 343–347
(1961).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, NAKA-GUN, IBARAKI,
JAPAN.

1301 Aitken, M. J.
**Physical methods of archaeological
research.**
Research (London), **15**, 145–151
(1962).
(ENGLISH). RESEARCH LABORATORY
FOR ARCHAEOLOGY AND THE HISTORY
OF ART, UNIVERSITY OF OXFORD,
ENGLAND.

1302 Amiel, S., Peisach, M.
**A critical study of isotopic
analysis of uranium by
radioactivation using the method
of delayed neutron counting.**
Israel J. Chem., **1**, 306 (1963).
(ENGLISH). DEPARTMENT OF NUCLEAR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

CHEMISTRY, ISRAEL ATOMIC ENERGY
COMMISSION.

1308 Roubault, M.

**Radioactivation analysis and its
application to biological
(medicine, agronomy,
biochemistry) sciences.**

*Third International Colloquim on
Biology, Saclay, France, 23p.*
(September 1963).

(FRENCH). FRANCE.

1303 Anders, O. U.

**A practical approach to the
self-shielding problem in
low-flux neutron activation
analysis.**

Anal. Chem., **36**, 564–568 (1964).

(ENGLISH). RADIOCHEMISTRY

RESEARCH LABORATORY, THE DOW
CHEMICAL CO., MIDLAND, MICH.

1309 Dutina, D.

**Determination of oxygen in
zircaloy by fast neutron
activation.**

KAPL-2000-19, I.14-1.23 (1962).

(ENGLISH). KNOLLS ATOMIC POWER
LABORATORY, SCHNECTADY, N.Y.

1304 Perdijon, J.

**Utilization of activation analysis
in the study of silicates.**

Bull. Soc. Franc. Ceram., No. 57,
45–51 (April–June 1965).

(FRENCH). SOCIETE ANONYME DE
MACHINES ELECTROSTATIQUES,
GRENOBLE, ISERE, FRANCE.

1310 Parr, R. M., Taylor, D. M.

**The determination of gold in human
liver by thermal neutron
activation analysis.**

Phys. Med. Biol., **8**, 43–50 (1963).

(ENGLISH) (FRENCH, GERMAN AND
RUSSIAN SUMMARIES). DEPARTMENT
OF PHYSICS, INSTITUTE OF CANCER
RESEARCH, ROYAL CANCER HOSPITAL,
LONDON, ENGLAND.

1305 Bowen, H. J. M.

**The elementary composition of
mammalian blood.**

AERE-R 4196, 43p. (February 1963).

(ENGLISH). ISOTOPE RESEARCH
DIVISION, AERE, WANTAGE RESEARCH
LABORATORY, BERKSHIRE, ENGLAND.

1311 Williams, J. D., Ansell, B. M.,

Reiffel, L., Stone, C. A., Kark,
R. M.

**Electrolyte levels in normal and
dystrophic muscle determined by
neutron activation.**

Lancet, **1**, 464–466 (1957).

(ENGLISH). M.B. LOND., M.R.C.P.

1306 Aitken, M. J.

**Physics applied to archaeology—
Part I.**

Contemporary Physics, **3**, 161–176
(1962).

(ENGLISH). RESEARCH LABORATORY
FOR ARCHAEOLOGY AND THE HISTORY
OF ART, UNIVERSITY OF OXFORD,
ENGLAND.

1312 Heslop, J. A. B.

**Activation analysis of light
elements by means of charged
particles.**

NP-11608, 14p. (April 1961).

(ENGLISH). ADMIRALTY MATERIALS
LABORATORY, GENERAL CHEMISTRY
DIVISION, ENGLAND.

1307 Hamaguchi, H., Sugisita, R.,

Kawai, M., Onuma, N.

**Determination of zinc in iron
meteorites by neutron activation
analysis.**

Bunseki Kagaku, **13**, 735–738
(1964).

(JAPANESE) (ENGLISH SUMMARY).

DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOKYO KYOIKU
UNIVERSITY, BUNKYO-KU, TOKYO,
JAPAN.

1313 Monnier, D.

**Research of traces and
ultra-traces of elements.**

Arch. Sci. (Geneva), **18**, 273–281
(May–August 1965).

(FRENCH). LABORATOIRES DE CHIMIE
MINERALE ET ANALYTIQUE DE
L'UNIVERSITE DE GENEVE,
SWITZERLAND.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1314 Kaiser, D. G. (FRENCH). CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, FRANCE.
**A study of the slow neutron
activation analysis of certain
arsenic and antimony containing
pharmaceuticals.**
Dissertation Abstr., **22**, 3616–3617
 (1962).
 (ENGLISH). PURDUE UNIVERSITY.
- 1315 Kusaka, Y., Tsuji, H., Adachi, T.
**The sensitivity of radioactivation
analysis by a low level neutron
source.**
Bull. Chem. Soc. Japan, **37**,
 597–600 (1964).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, FACULTY OF SCIENCE,
 KONAN UNIVERSITY, HIGASHINADA-KU,
 KOBE, JAPAN.
- 1316 Leddicotte, G. W.
**Radioactivation analysis—specific
for trace element determinations.**
 ASTM Special Tech. Publ. 308,
 21–43 (1961).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENNESSEE.
- 1317 Soremarm, R.
**Studies on the concentration of
vanadium in some biological
specimens.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques*, 223–238, Presses
 Universitaires de France, Paris,
 France (1964).
 (ENGLISH). STOCKHOLM, SWEDEN.
- 1318 Markowitz, S. S., Mahony, J. D.
**Activation analysis for oxygen and
other elements by helium-3—induced
nuclear reactions.**
Anal. Chem., **34**, 329–335 (1962).
 (ENGLISH). LAWRENCE RADIATION
 LABORATORY AND DEPARTMENT OF
 CHEMISTRY, UNIVERSITY OF
 CALIFORNIA, BERKELEY, CALIF.
- 1319 May, S.
**Application of neutron activation
analysis to the study of
impurities on nuclear graphite.**
Bull. Soc. Chim. France, **12**,
 2203–2208 (1961).
- 1320 Kurosawa, R.
**Activation analysis of the
impurities in metal.**
*Waseda Daigaku Rikogaku Kenkyusho
Hokoku*, **18**, 15–25 (1961).
 (JAPANESE) (ENGLISH SUMMARY).
 JAPAN.
- 1321 Monnier, D., Vogel, J., Haerdi,
 H., Wenger, P. E.
**Determination of cobalt by
polarography (cathode rays),
spectrophotometry, and by neutron
activation.**
Chimia, **14**, 128 (1960).
 (FRENCH). LABORATOIRE DE CHIMIE
 MINERALE ET ANALYTIQUE DE
 L'UNIVERSITE DE GENEVE.
- 1322 Nakai, T.
**Recent developments in neutron
activation analysis in Japan.**
*Proceedings Fifth Japan Conference
on Radioisotopes*, **2**, 1–13 (1963).
 (ENGLISH). DIVISION OF CHEMISTRY,
 JAPAN ATOMIC ENERGY RESEARCH
 INSTITUTE, JAPAN.
- 1323 Schmitt, R. A., Smith, R. H.
**A program of research for the
determination of rare-earth
abundances in meteorites.**
 GA-2782 (Rev.), 40p. (December 29,
 1961).
 (ENGLISH). GENERAL ATOMIC
 DIVISION, GENERAL DYNAMICS, SAN
 DIEGO, CALIF.
- 1324 Wong, K. M., Voigt, A. F.
**Activation analysis for rare-earth
impurities in yttrium.**
 IS-736, 51p. (August 1961).
 (ENGLISH). AMES LABORATORY, IOWA
 STATE UNIVERSITY, AMES, IOWA.
- 1325 Kobayashi, M., Nagatsuka, S.,
 Higashi, K.
**Analysis of trace elements in
aluminium by neutron
activation—determination of
uranium in aluminium.**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Radioisotopes (Tokyo), **14**, 8–12
(1965).

(ENGLISH) (JAPANESE SUMMARY).
TOKYO METROPOLITAN ISOTOPE
RESEARCH CENTRE, TOKYO, JAPAN.

1326 Koch, R. C., Keisch, B.

**Neutron activation analysis
studies of ^{129}I in the biosphere.**

*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques*, 47–68, Presses
Universitaires de France, Paris,
France (1964).

(ENGLISH). PITTSBURGH, PA.

1327 Yule, H. P., Lukens, H. R., Guinn,
V. P.

**Utilization of reactor fast
neutrons for activation analysis.**

Nucl. Instr. Methods, **33**, 277–282
(1965).

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.

1328 Nicholson, W. L.

What can be detected.

BNWL-SA-1121, 20p. (June 25,
1967).

(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORY, RICHLAND, WASHINGTON.

1329 Born, G. I., Vaiss, K. F.,
Kobaladze, M. G.

**On resolution of some analytical
problems pertaining to rare
earths by means of radioactivation
analysis.**

*Trans. Kom. Anal. Khim. Akad. Nauk
SSSR*, **7**, No. 10, 104–118 (1956).

(RUSSIAN). RUSSIA.

1330 Born, H. J., Wilkniss, P. E.

**Activation analysis determination
of small amounts of oxygen with
the help of the nuclear reaction
 $^{16}\text{O}(\text{t},\text{n})^{18}\text{F}$.**

Z. Electrochem., **64**, 1083 (1960).

(GERMAN). INSTITUT FÜR
RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MÜNCHEN, GERMANY.

1331 Baumgartner, F.

**Neutron activation analysis in
strong neutron absorbing
substances.**

Z. Electrochem., **64**, 1077–1080
(1960).

(GERMAN). INSTITUT FÜR
RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MÜNCHEN,
REAKTORSTATION GARCHING, GERMANY.

1332 Bergman, B., Soremark, R.

**Gamma-ray spectrometric analysis
of some trace elements in the
human articular disc of the
mandible.**

Nuklear Medizin, **3**, 175–182
(1963).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). BIOPHYSICS
LABORATORY, THE DEPARTMENT OF
PROSTHETICS, THE ROYAL SCHOOL OF
DENTISTRY, STOCKHOLM, SWEDEN.

1333 Matsuura, T., Sasaki, T.

**Separation of recoiling
chromium(II) species from
neutron-irradiated hexaquo chromium
(III) ion absorbed on
ion-exchanger.**

IAERU-6608, 19p. (1966).

(ENGLISH). INSTITUTE FOR ATOMIC
ENERGY, RIKKYO UNIVERSITY,
YOKOSUKA, JAPAN.

1334 Kramer, H. H., Molinski, V. J.,
Wahl, W. H.

Research in activation analysis.

NYO-10173, 24p. (March 29, 1963).

(ENGLISH). UNION CARBIDE NUCLEAR
CO., RESEARCH CENTER, TUXEDO,
N.Y.

1335 Hogdahl, O. T.

**Neutron absorption in pile neutron
activation analysis.**

MMPP-226-1, 65p. (December 1962).

(ENGLISH). UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

1336 Jordan, E. D., Schierling, H. E.

**Americium-beryllium and
plutonium-beryllium neutron
source relative effectiveness in
prompt-gamma activation analysis.**

Trans. Am. Nucl. Soc., **5**, 286–287

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(1962).

(ENGLISH). CATHOLIC UNIVERSITY OF AMERICA, DIVISION OF NUCLEAR ENGINEERING, WASHINGTON, D.C.

- 1337 Jordan, E. D., Schierling, H. E.
Americium–beryllium and plutonium–beryllium neutron source relative effectiveness in prompt–gamma activation analysis.
 CUA–NE–24, 39p. (November 1962).
 (ENGLISH). DIVISION OF NUCLEAR ENGINEERING, THE CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C.

- 1338 Kobayashi, M., Sawai, T., Maeda, S., Kurosu, H.
Study on the zone refining of pure aluminum by the activation method.
Radioisotopes, 11, 163–172 (1962).
 (JAPANESE) (ENGLISH SUMMARY). TOKYO METROPOLITAN ISOTOPE CENTRE, JAPAN.

- 1339 Kohn, A.
French research in metallurgy accomplished with radioelements.
Acta Electronica, 3, 253–276 (1959).
 (FRENCH). INSTITUT DE RECHERCHES DE LA SIDERURGIE, FRANCE.

- 1340 Kramer, H. H., Molinski, V. J., Tilbury, R. S., Wahl, W. H., Stier, P. M.
Research in activation analysis.
 NYO–10,174, 91p. (September 30, 1963).
 (ENGLISH). UNION CARBIDE CORP., NUCLEAR DIVISION RESEARCH CENTER, TUXEDO, NEW YORK.

- 1341 Monnier, D.
Activation by neutron analysis of isotopes having short half lives.
Chimia, 15, 512–515 (1961).
 (FRENCH). ECOLE DE CHIMIE, UNIVERSITE DE GENEVE.

- 1342 Nakayama, F., Blomstrand, R.
Neutron activation paper chromatographic analysis of

phospholipids in human liver and bile.

Acta Chem. Scand., 15, 1595–1603 (1961).

(ENGLISH). SWEDISH MEDICAL RESEARCH COUNCIL, UNIT FOR BIOCHEMICAL RESEARCH FOR ARTEROSCLEROSIS, UNIVERSITY OF LUND, LUND, SWEDEN.

- 1343 Niese, S., Leonhardt, W.
Activation analysis — application possibilities in industry and research.
Chem. Tech., 13, 509–514 (1961).
 (GERMAN). DRESDEN, GERMANY.

- 1344 Niese, S., Leonhardt, W., Morzek, P., Herold, C., Rommel, H.
Possible applications of activation analysis.
Isotopentechnik, 1, 185–186 (1960/1961).
 (GERMAN). ZENTRALINSTITUT FUR KERNPHYSIK, BEREICH RADIOCHEMIE, ROSSENDORF, GERMANY.

- 1345 Rassoul, A., Langhoff, J., Herr, W.
Industrial neutron nuclear reactions for the detection of geochemical significant trace elements in minerals.
Z. Elektrochem., 64, 1036 (1960).
 (GERMAN). MAX–PLANCK INSTITUT FUR CHEMIE, MAINZ, GERMANY.

- 1346 Ruzicka, J., Stary, J.
Substoichiometric determination of traces of metals by activation analysis or by isotope dilution.
 UJV 992/63, 32p. (1963).
 (ENGLISH). FACULTY OF TECHNICAL AND NUCLEAR PHYSICS, DEPARTMENT OF NUCLEAR CHEMISTRY, PRAHA, BREHOVA, CZECHOSLOVAKIA.

- 1347 Seyfang, A. P., Todd, R.
The determination of impurities in beryllium by activation analysis using remote reactor facilities.
 UKAEA PG Report 172(S), 26p. (1961).
 (ENGLISH). UKAEA, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1348 Villar, G. E.
Trace analysis by radioactivation.
Bol. Fac. Ing. y. Agrimensura
Montevideo, **6**, 163-185 (1957).
 (SPANISH). INSTITUTO DE
 TECNOLOGIA Y QUIMICA DE LA
 FACULTAD DE INGENIERIA Y
 AGRIMENSURA DE MONTEVIDEO.
- 1349 Kamemoto, Y., Yamagishi, S.
**Further studies of the neutron
 shielding of metals in thermal
 neutron activation.**
Bull. Chem. Soc. Japan, **37**,
 664-668 (1964).
 (ENGLISH). DIVISION OF NUCLEAR
 ENGINEERING, JAPAN ATOMIC ENERGY
 RESEARCH INSTITUTE, TOKAI,
 IBARAKI, JAPAN.
- 1350 Bate, L. C., Leddicotte, G. W.
**Complement subtraction method of
 gamma-ray spectrometry for the
 quantitative analysis of complex
 mixtures of radionuclides.**
 ORNL-2866, 33 (February 18, 1960).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENN.
- 1351 Brooksbank, W. A., Leddicotte, G.
 W., Handley, T. H., Lee, N. D.,
 Keenan, C. W.
Activation analyses.
 ORNL-867, 30-40 (1957).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENN.
- 1352 Cornuet, R.
**Recent applications of the
 radioelements in France.**
Automazione e Strumentazione, **9**,
 97-102 (1962).
 (FRENCH). CEA-CENG, SECTION
 D'APPLICATION DES RADIOELEMENTS,
 FRANCE.
- 1353 Dibbs, H. P.
**Sensitivities for activation
 analysis with thermal or fast
 neutrons.**
 NP-12437, 8p. (November 20, 1952).
 (ENGLISH). PHYSICS AND
 RADIOTRACER SUBDIVISION, MINERAL
 SCIENCES DIVISION, MINES BRANCH,
 DEPARTMENT OF MINES AND TECHNICAL
 SURVEYS, OTTAWA, CANADA.
- 1354 Gebauhr, W.
**The application of radiochemical
 methods in the field of
 semiconductor research.**
Kerntechnik, **4**, 323-326 (1962).
 (GERMAN). SIEMENS-SCHUCKERTWERKE
 AG, FORSCHUNGLABORATORIUM
 ERLANGEN, GERMANY.
- 1355 Guinn, V. P., Johnson, R. A.
**Some special features of
 instrumental neutron activation
 analysis.**
Trans. Am. Nucl. Soc., **3**, 414
 (1960).
 (ENGLISH). SHELL DEVELOPMENT CO.,
 EMERYVILLE, CALIF.
- 1356 Schmitt, R. A., Smith, R. H.,
 Lasch, J. E., Mosen, A. W.,
 Olehy, D. A., Vasilevskis, J.
**Abundances of the fourteen rare
 earth elements, scandium, and
 yttrium in meteoritic and
 terrestrial matter.**
Geochim. Cosmochim. Acta, **27**,
 577-622 (1963).
 (ENGLISH). GENERAL DYNAMICS
 CORP., GENERAL ATOMIC DIV., SAN
 DIEGO, CALIF.
- 1357 Hudgens, J. E.
**Radioactivation analysis in
 reactor technology.**
 WAPD-T-1543, 10p. (November 1962).
 (ENGLISH). BETTIS ATOMIC POWER
 LABORATORY, PITTSBURGH, PA.
- 1358 Kurochkin, S. S.
**The use of multichannel analyzers
 for activation analysis.**
J. Anal. Chem. USSR, **18**, 1028-1032
 (1963).
 (ENGLISH TRANSLATION). RUSSIA
- 1359 Kuykendall, W. E., Wainerdi, R. E.
**The analysis of a decaying complex
 gamma spectrum utilizing the IBM
 704 digital computer.**
Trans. Am. Nucl. Soc., **3**, 95
 (1960).
 (ENGLISH). TEXAS A AND M, COLLEGE
 STATION, TEXAS.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1360 Laverlochere, J.
Activation analysis applied to nuclear materials.
Chim. Anal., **46**, No. 1, 23–30 (1964).
 (FRENCH). DEPARTMENT DES RADIOELEMENTS, SECTION D'APPLICATION DES RADIOELEMENTS, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE.
- 1361 Leddicotte, G. W., Mullins, W. T., Emery, J. F., Bate, L. C., Strain, J. E., Dyer, F. F.
Quantitative applications.
 ORNL-3060, 36–41 (February 15, 1961).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1362 Coryell, C. D.
Earth sciences.
 NYO-10063, 33–34 (May 1, 1963).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, MASSACHUSETTS.
- 1363 Opravil, O., Zitnansky, B., Sebestian, I.
Isolation of carbide phase from titanium-tungsten-alloyed chromium-nickel steel and its analysis via activation method.
Chem. Listy, **57**, 1294–1300 (1963).
 (CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). VYSKUMNY USTAV ZVARACKSK, BRATISLAVA.
- 1364 Nucleonics
Nucleonics handbook of nuclear research and technology.
Nucleonics Handbook of Nuclear Research and Technology, 255p., New York, Nucleonics (1965).
 (ENGLISH). NEW YORK.
- 1365 Raleigh, H. D.
Activation analysis. A literature search.
 TID-3575, 27p. (August 1963).
 (ENGLISH). DIVISION OF TECHNICAL INFORMATION, OAK RIDGE, TENN.
- 1366 Reiffel, L.
Neutron activation analysis.
The Frontier, **16**, 4–7, 18–19 (1953).
 (ENGLISH). NUCLEAR PHYSICS SECTION, PHYSICS RESEARCH DEPARTMENT, ARMOUR RESEARCH FOUNDATION, CHICAGO, ILLINOIS.
- 1367 Reiser, W., Schneider, H.
Neutron activation analysis and its applicability in steel analysis.
Archiv. Eisenhüttenwesen, **32**, 31–38 (1961).
 (GERMAN). MITTEILUNG AUS DEM PHYSIKALISCHEN INSTITUT DER UNIVERSITÄT GIEBEN.
- 1368 Robson, A.
Radioactive tracer techniques and their applications in industry.
J. Soc. Dyers Colourists, **68**, 7–11 (1952).
 (ENGLISH). WOOL INDUSTRIES RESEARCH ASSOCIATION, TORRIDON, HEADINGLEY, LEEDS, ENGLAND.
- 1369 May, S.
Utilization of gamma spectrography in trace analysis by activation.
Bull. Soc. Chim. France, **6**, 1089–1095 (1961).
 (FRENCH). SERVICE DE PHYSICO-CHIMIE APPLIQUEE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, FRANCE.
- 1370 Stehlik, G., Altmann, H.
Use of neutron activation analysis to trace element investigation on nucleic acids.
Monatsh. Chem., **94**, 1163–1177 (1963).
 (GERMAN). INSTITUT FÜR BIOLOGIE UND LANDWIRTSCHAFT DES REAKTORZENTRUMS SEIBERSDORF.
- 1371 United Kingdom Atomic Energy Authority
A manual for the preparation of solutions for volumetric, absorptometric and radioactivation analysis, buffer solutions, gas testing reagents and test papers.
 UKAEA PG Report 367(S), 36p.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (1962).
(ENGLISH). UKAEA PRODUCTION GROUP, RISLEY, WARRINGTON, LANCASHIRE, ENGLAND.
- 1372 Trew, J. R.
Activation analysis. A literature survey of unclassified reports.
STL-B-37, 21p. (15 September 1960).
(ENGLISH). SPACE TECHNOLOGY LABORATORIES, INC., LOS ANGELES, CALIF.
- 1373 Otwinowski, W., Allina, Z.
Determination of trace amounts of copper, zinc, arsenic and iron in selenium of high purity by neutron activation analysis.
Nukleonika, **8**, 833-842 (1963).
(POLISH) (RUSSIAN AND ENGLISH SUMMARIES). INSTYTUT CHEMII OGOLNEJ, WARSZAWA, POLAND.
- 1374 Okada, M., Kamemoto, Y.
Rapid determination of yttrium in aqueous solutions containing dysprosium and in ore samples by neutron activation and gamma-ray spectrometry.
CONF-285-6, *7th Conference on Analytical Chemistry in Nuclear Technology, Gatlinburg, Tennessee*, 10p. (October 1963).
(ENGLISH). GOVT. CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1375 Schweikert, E. A., Albert, P.
New experiments in radioactivation analysis with gamma quanta of 18 to 27 MeV.
Radiochemical Methods of Analysis, Vol. I, 323-339, Vienna, International Atomic Energy Agency (1965).
(FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY-SUR-SEINE, FRANCE.
- 1376 Rybach, L., Nissen, H. U.
Neutron activation of Mn and Na traces in marbles worked by the ancient Greeks.
Radiochemical Methods of Analysis, Vol. I, 105-117, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). INSTITUT FUR KRISTALLOGRAPHIE UND PETROGRAPHIE, EIDENOSSISCHE TECHNISCHE HOCHSCHULE, ZURICH, SWITZERLAND.
- 1377 Butler, J. P.
The determination of deuterium in the surface layers of D₂O-oxidized zircaloy-2 by the d(d,n) He-3 reaction.
Radiochemical Methods of Analysis, Vol. I, 391-403, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). RESEARCH CHEMISTRY BRANCH, ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, CANADA.
- 1378 Cuypers, M., Le Hericy, J., Cuypers, J., Albert, P.
Determination of sulfur in copper by neutron activation.
Compt. Rend., **261**, 5494-5496 (December 20, 1965).
(FRENCH). CENTRE D'ETUDE DE CHIMIE METALLURGIQUE DU CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, VITRY, VAL-DE-MARNE, FRANCE.
- 1379 De Hevesy, G.
The historical background of some applications of isotopic tracers in analytical chemistry.
Radiochemical Methods of Analysis, Vol. I, 3-11, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). UNIVERSITY OF STOCKHOLM, SWEDEN.
- 1380 Neider, R., Peter, H.
Tool activation for the determination of the cutability of thin sheets.
Atomwirtschaft, **9**, 504-508 (1964).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(GERMAN). BUNDESANSTALT FÜR
MATERIALPRÜFUNG, BERLIN.

1381 Merz, E., Schrage, E.

**Activation analysis determination
of the Zr–Hf ratios in stone
meteorites and minerals.**

Geochim. Cosmochim. Acta, **28**,
1873–1877 (1964).

(GERMAN). INSTITUT FÜR CHEMISCHE
TECHNOLOGIE DER KERNFORSCHUNGSAN-
LAGE JULICH, GERMANY.

1382 Shiraishi, H.

**Determination of trace elements by
neutron activation analysis.**

Fuji Jiho, **35**, 281–286 (1962).

(JAPANESE) (ENGLISH SUMMARY).
SECOND CHEMICAL RESEARCH SECT.,
RESEARCH DEPARTMENT, JAPAN.

1383 De Grazia, A. R., Haskin, L. A.

On the gold contents of rocks.

Geochim. Cosmochim. Acta, **28**,
559–564 (1964).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
WISCONSIN, MADISON, WISCONSIN.

1384 Bethard, W. F., Schmitt, R. A.,

Olehy, D. A.

**The quantitation of magnesium,
manganese, zinc, and copper in
blood by neutron activation
analysis.**

*Radioaktive Isotope in Klinik und
Forschung*, **V**, 222–236 (1963).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.

1385 Hamaguchi, H., Kuroda, R., Onuma,
N., Kawabuchi, K., Mitsubayashi,
T., Hosohara, K.

The geochemistry of tin.

Geochim. Cosmochim. Acta, **28**,
1039–1053 (1964).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, TOKYO KYOIKU
UNIVERSITY, TOKYO, OTSUKA, JAPAN.

1386 Fisher, D. E.

The aluminum content of chondritic

**meteorites as determined by
activation analysis.**

Geochim. Cosmochim. Acta, **28**,
743–749 (1964).

(ENGLISH). NUCLEAR REACTOR
LABORATORY, CORNELL UNIVERSITY,
ITHACA, N.Y.

1387 Rakovic, M.

**Study of precipitation in neutron
activation analysis (II).**

**Coprecipitation of iron by
cobaltic 1–nitroso–2–naphtholate.**

Chem. Zvesti, **22**, 743–747 (1968).

(ENGLISH) (CZECHOSLOVAKIAN AND
RUSSIAN SUMMARIES). DEPARTMENT OF
THE MEDICAL PHYSICS AND NUCLEAR
MEDICINE, MEDICAL FACULTY,
CHARLES UNIVERSITY, PRAGUE.

1388 Hoste, J.

**Activation analysis. Principles
and applications.**

*Assoc. Belge Develop. Pacifique
Energie At. Bull. Inform.*, **8**,
54–57 (1963).

(FRENCH). L'UNIVERSITE DE GAND,
BELGIUM.

1389 Malmon, A. G.

**Fission fragment tracks as uranium
tracers in biological electron
microscopy.**

Biophys. J., **4**, 1–10 (1964).

(ENGLISH). NATIONAL INSTITUTES OF
HEALTH, BETHESDA, MARYLAND.

1390 Wiesner, L.

**Contributions to progress in
nuclear, radio and radiation
chemistry (report on the general
meeting of GDCH at Heidelberg).**

Atomwirtschaft, **9**, 113–115 (1964).

(GERMAN). KARLSRUHE, GERMANY.

1391 Sakanoue, M., Oosawa, M., Sakai,
T., Ishida, K.

**Radiochemical studies on the
separation and determination of
protactinium.**

Nippon Genshiryoku Gakkaishi, **6**,
503–510 (1964).

(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF SCIENCE, KANAZAWA
UNIV., JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1392 Rakovic, M., Talpova, H.
Neutron activation method for the determination of sodium in some biological tissue samples.
Jaderna Energie, **10**, 81–85 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). CHARLES UNIVERSITY, PRAGUE.
- 1393 Baranov, V. I., Khristianov, V. K., Karasev, B. V., Panov, G. I.
Measuring boron by the neutron method in outcrops and mine workings.
Izv. Akad. Nauk SSSR, Ser. Geofiz., **3**, 349–353 (1964).
 (RUSSIAN). RUSSIA.
- 1394 Metcalf, A.
A neutron activation technique for oxygen determination.
Steel Times, **188**, 90–92 (1964).
 (ENGLISH). BISRA STEELMAKING DIVISION, ENGLAND.
- 1395 Hori, R.
Studies on the permeability of sea urchin plasma membrane by neutron activation analysis.
Radioisotopes (Tokyo), **12**, 115–119 (1963).
 (JAPANESE). TOYAMA UNIVERSITY, JAPAN.
- 1396 Monnier, D.
Determination by thermal neutron activation of short-lived isotopes.
Ind. At., **7**, No. 9–10, 83–91 (1963).
 (FRENCH) (GERMAN AND ENGLISH SUMMARIES). CHIMIE ANALYTIQUE A LA FACULTE DES SCIENCES DE L'UNIVERSITE DE GENEVE.
- 1397 Häerdi, W.
Neutron activation of elements and the non-destructive gamma spectrometric determination of short-lived radioisotopes.
Ind. At., **7**, Nos. 9–10, 93–106 (1963).
 (FRENCH). LABORATOIRES DE CHIMIE ANALYTIQUE, DE L'UNIVERSITE DE GENEVE.
- 1398 Shikata, E.
On the interference of the threshold reaction on the activation analysis by (n,γ) reaction.
Nippon Genshiryoku Gakkaishi, **6**, 579–582 (1964).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, JAPAN.
- 1399 Fujii, I., Miyoshi, K., Muto, H., Yutaka, M.
Industrial activation analysis unit with 14 MeV neutron generator and its applications. Highly accurate new monitoring system shortens to one minute the time of determining amount of oxygen in materials.
Toshiba Rev., Intern. Ed., **15**, 32–39 (1963).
 (ENGLISH). CENTRAL RESEARCH LABORATORY, TOKYO SHIBAURA ELECTRIC CO., LTD., JAPAN.
- 1400 Brune, D., Sjoberg, H. E.
Determination of magnesium in needle biopsy samples of muscle tissue by means of neutron activation analysis.
Anal. Chim. Acta, **33**, No. 5, 570–572 (1965).
 (ENGLISH). AB ATOMENERGI, STUDSVIK, SWEDEN.
- 1401 Wakita, H., Kigoshi, K.
Activation analysis of thorium in shells.
Nippon Kagaku Zasshi, **85**, 476–480 (1964).
 (JAPANESE). GAKUSHUIN UNIVERSITY, TOKYO, JAPAN.
- 1402 Oka, Y., Kato, T., Sasaki, M.
Determination of gold in sea water by neutron activation analysis.
Nippon Kagaku Zasshi, **85**, 643–647 (1964).
 (JAPANESE) (ENGLISH SUMMARY). TOHOKU UNIVERSITY, SENDAI, JAPAN.
- 1403 Okada, M., Kamemoto, Y.
Rapid determination of yttrium by neutron activation and gamma-ray spectrometry.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Nippon Kagaku Zasshi*, **85**, 641–642 (1964).
(JAPANESE). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, JAPAN.
- 1404 Nascutiu, T.
The analysis of inorganic substances by radioactivation on chromatographic paper. II. Thorium and rare earths.
Rev. Roumaine Chim., **9**, 283–287 (1964).
(ENGLISH). INSTITUTE FOR ATOMIC PHYSICS, BUCHAREST.
- 1405 Isotopes
Isotope technology development.
Isotopes and Radiation Technology, **1**, No. 1, 53–77 (1963).
(ENGLISH). USA.
- 1406 Gelli, D., Malvano, R., Sacchetti, N.
Resistometric and neutron activation analysis of aluminum during zone refining.
Alluminio, **32**, 481–487 (1963).
(ITALIAN). ISTITUTO SPERIMENTALE DEI METALLI LEGGERI, DIVISIONE RICERCHE, NOVARA, ITALY.
- 1407 Wood, D. E.
Development of fast neutron activation analysis for liquid loop systems.
TID-24029, 31p. (July 1967).
(ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 1408 Nozaki, T., Yazawa, K.
The radioactivation analysis of graphite for nitrogen by the $^{14}\text{N}(\text{p},\alpha)^{11}\text{C}$ reaction.
Bull. Chem. Soc. Japan, **37**, 1891–1892 (1964).
(ENGLISH). INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, BUNKYO-KU, TOKYO (T.N.). JAPAN.
- 1409 Kamemoto, Y., Yamagishi, S.
Determination of magnesium and mercury by re-activation analysis.
- Nippon Kagaku Zasshi*, **86**, 74–77 (1965).
(JAPANESE). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1410 Fournet, L., Albert, P.
Systematic analysis of zirconium after neutron irradiation.
Compt. Rend., **254**, 1076–1078 (1962).
(FRENCH). LABORATOIRE DE VITRY DU C.N.R.S., FRANCE.
- 1411 Parr, R. M., Taylor, D. M.
The concentrations of cobalt, copper, iron and zinc in some normal human tissues as determined by neutron-activation analysis.
Biochem. J., **9**, 424–431 (1964).
(ENGLISH). DEPARTMENT OF PHYSICS, INSTITUTE OF CANCER RESEARCH, ROYAL CANCER HOSPITAL, LONDON, S.W. 3, ENGLAND.
- 1412 Wester, P. O., Brune, D., Samsahl, K.
Radiochemical recovery studies of a separation scheme for 23 elements in biological material.
Intern. J. Appl. Radiation Isotopes, **15**, 59–67 (1964).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DEPARTMENT OF MEDICINE, KAROLINSKA INSTITUTET, SERAFIMERLASARETTET, STOCKHOLM, SWEDEN.
- 1413 Okada, M., Kamemoto, Y.
Rapid determination of yttrium in aqueous solutions containing dysprosium and in ore samples by neutron activation.
Intern. J. Appl. Radiation Isotopes, **15**, 381–382 (1964).
(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, HON-MACHI. SHIBUYA, TOKYO, JAPAN.
- 1414 Martin, T. C., Mathur, S. C., Morgan, I. L.
The application of nuclear techniques in coal analysis.
Intern. J. Appl. Radiation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Isotopes*, **15**, 331–338 (1964).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). TEXAS NUCLEAR CORP., AUSTIN, TEXAS.
- 1415 Fabbri, E., Lazzarini, E., Sanguist, V.
Activation analysis of deuterium by ^{12}C (d,n) ^{13}N reaction in a nuclear reactor.
Intern. J. Appl. Radiation Isotopes, **15**, 437–439 (1964).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). CENTRO STUDI NUCLEARI ENRICO FERMI DEL POLITECNICO, MILANO, ITALY.
- 1416 Soroiu, M., Cerei, M., Oncescu, M., Danis, A., Mantescu, C.
Radiogenic argon determination by neutron activation analysis.
Geochim. Cosmochim. Acta, **29**, No. 5, 551–561 (1965).
(ENGLISH). INSTITUTE FOR ATOMIC PHYSICS. BUCHAREST. RUMANIA.
- 1417 Dugain, F.
Gamma spectrometry. Its application to the determination of very slight traces.
Chim. Anal., **46**, 179–187 (1964).
(FRENCH). LABORATOIRE DE RECHERCHES D'ELECTROCHIMIE ET DES METAUX NOUVEAUX DE LA COMPAGNIE PECHINEY, GRENOBLE, FRANCE.
- 1418 Kamemoto, Y.
On the self-shielding effect in thermal-neutron activation of metals.
Intern. J. Appl. Radiation Isotopes, **15**, 447–448 (1964).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, NAKA-GUN, IBARAKI, JAPAN.
- 1419 Thoresen, P.
Activation analysis of soils and rocks in Norway.
Acta Chem. Scand., **18**, 1054–1058 (1964).
(ENGLISH). NORWEGIAN DEFENCE RESEARCH ESTABLISHMENT, KELLER, NORWAY.
- 1420 Kamemoto, Y., Yamagishi, S.
The re-activation analysis of aluminum—the activation analysis of aluminum with special reference to yield determination.
Bull. Chem. Soc. Japan, **36**, 1411–1414 (1963).
(ENGLISH). DIVISION OF CHEMISTRY, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI, TOKYO, JAPAN.
- 1421 Kjellin, K. G.
Determination of sub-microgram quantities of copper in biological material by activation analysis.
Intern. J. Appl. Radiation Isotopes, **15**, 461–468 (1964).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). KAROLINSKA SJUKHUSET, STOCKHOLM, SWEDEN.
- 1422 Forslev, A. W.
Nondestructive neutron-activation analysis of hair.
J. Forensic Sci., **11**, 217–232 (April 1966).
(ENGLISH). CHICAGO POLICE LABORATORY, CHICAGO, ILLINOIS.
- 1423 Jordan, E. D., Schierling, H. E.
Americium-beryllium and plutonium-beryllium neutron source relative effectiveness in prompt-gamma neutron-activation analysis.
Intern. J. Appl. Radiation Isotopes, **15**, 427–436 (1964).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DIVISION OF NUCLEAR ENGINEERING, CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C.
- 1424 Lukens, H. R., Lasch, J. E.
Use of the Cerenkov counter in the determination of oxygen by neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **15**, 759–763 (1964).
(ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1425 Gijbels, R., Hoste, J.
The simultaneous determination of ruthenium and iridium in osmium sponge by neutron activation analysis.
Anal. Chim. Acta, **32**, 17–31 (1965).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). LABORATORY FOR ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, GHENT, BELGIUM.
- 1426 Monnier, D., Haerdi, W., Roueche, A.
Determination of cobalt in 18/8 steel based on cobalt-60(m) formation by thermal neutron activation.
Anal. Chim. Acta, **31**, 413–418 (1964).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). LABORATOIRES DE CHIMIE MINERALE ET ANALYTIQUE, UNIVERSITE DE GENEVE, GENEVE.
- 1427 Athavale, V. T., Parekh, P. P.
Isotopic analysis of lead by neutron activation method. Its application to the determination of thorium-lead ages of minerals.
Proceedings of the Nuclear Radiation Chemistry Symposium, 1966, 200–205, Bombay, Department of Atomic Energy (1966).
 (ENGLISH). ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, INDIA.
- 1428 Hilton, D. A., Reed, D.
The determination of uranium-235 by neutron activation and ring-oven separation of molybdenum-99 – technetium-99.
Analyst, **89**, 599–602 (1964).
 (ENGLISH). CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY NUCLEAR LABORATORIES, BERKELEY, GLOUCESTERSHIRE, ENGLAND.
- 1429 Smales, A. A., Mapper, D., Seyfang, A. P.
The determination of uranium in fairly pure beryllium metal by neutron activation and gamma spectrometry.
Anal. Chim. Acta, **25**, 587–597 (1961).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY DIVISION, AERE, HARWELL, ENGLAND.
- 1430 Kaipov, R. L., Ziv, D. M., Leipunskaya, D. I., Savosin, S. I., Fedorov, V. V., Fradkin, G. M., Shimelevich, Y. S., Basin, Y. N., Kukharenko, N. I., Shestakov, B. I.
The use of Ac – Be neutron sources in industrial geophysics.
At. Energ. USSR, **16**, 323–325 (1964).
 (ENGLISH TRANSLATION). RUSSIA.
- 1431 Morgan, J. W.
The simultaneous determination of rhenium and osmium in rocks by neutron activation analysis.
Anal. Chim. Acta, **32**, 8–16 (1965).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF GEOPHYSICS, INSTITUTE OF ADVANCED STUDIES, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, A.C.T., AUSTRALIA.
- 1432 Filby, R. H.
The determination of zinc in rocks by neutron activation analysis.
Anal. Chim. Acta, **31**, 557–562 (1964).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.
- 1433 Filby, R. H.
The determination of bromine in rocks by neutron activation analysis.
Anal. Chim. Acta, **31**, 434–440 (1964).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.
- 1434 Mc Millan, J. W.
The analysis of stainless-steel neutron-activation products by combined group separation and gamma-ray spectrometry.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Analyst*, **89**, 594–598 (1964).
(ENGLISH). UKAEA RESEARCH GROUP,
WOOLWICH OUTSTATION, C.37, ROYAL
ARSENAL, WOOLWICH, LONDON, S.E.
18, ENGLAND.
- 1435 Mezhiborskaya, K. B.
**A radioactivation method for the
determination of beryllium in
mineral raw materials and in
hydrometallurgical products.**
J. Anal. Chem. USSR, **15**, No. 3,
323–328 (1960).
(ENGLISH TRANSLATION). RUSSIA.
- 1436 Bowen, H. J. M.
**The determination of chromium in
biological material by
radioactivation.**
Analyst, **89**, 658–661 (1964).
(ENGLISH). WANTAGE RESEARCH
LABORATORY, AERE, WANTAGE, BERKS,
ENGLAND.
- 1437 Iddings, F. A.
**A study of flux monitoring for
instrumental neutron activation
analysis.**
Anal. Chim. Acta, **31**, 206–212
(1964).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). ESSO RESEARCH
LABORATORIES, HUMBLE OIL AND
REFINING CO., BATON ROUGE
REFINERY, BATON ROUGE, LA.
- 1438 Oak Ridge National Laboratory
**Activation analysis of insulating
materials.**
ORNL–3369, 47–48 (1962).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1439 Holtzman, R. B.
**Activation analysis of some heavy
nuclides.**
ANL–6474, 42–50 (1962).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ILLINOIS.
- 1440 Lopovok, T. A.
**Neutron multiplier for activation
analysis of geological samples.**
AEC–TR–6390, 365–371 (1960).
(ENGLISH TRANSLATION). INSTITUTE
OF GEOLOGY AND MINERAL
DEVELOPMENT, ACADEMY OF SCIENCES,
USSR, RUSSIA.
- 1441 Lavrukhina, A. K.
**Methods of modern radiochemistry
and regions of its application.**
AEC–TR–6390, 441–450 (1960).
(ENGLISH TRANSLATION). INSTITUTE
OF GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY IMENI V.I. VERNADSKII,
ACADEMY OF SCIENCES, USSR,
RUSSIA.
- 1442 Oak Ridge National Laboratory
**Analytical chemistry division
annual progress report for period
ending November 15, 1964.**
ORNL–3750, 144p. (January 1965).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1443 Srapenyants, R. A., Nefedov, B. B.
**Use of the method of neutron
activation analysis for
investigating scale deposits and
determining the wear of tractor
engine parts.**
AEC–TR–6390, 397–402 (1960).
(ENGLISH TRANSLATION). ALL-UNION
SCIENTIFIC RESEARCH INSTITUTE OF
AGRICULTURAL MECHANIZATION,
RUSSIA.
- 1444 Berton, M.
**Activation analysis with particles
accelerators.**
CEA–Bib.–50, 125p. (December
1964).
(FRENCH). FRANCE.
- 1445 Leipunskaya, D. I., Rezvanov, R.
A., Drynkin, V. I.
**Application of neutron activation
analysis to geology.**
AEC–TR–6390, 355–364 (1960).
(ENGLISH TRANSLATION). INSTITUTE
OF GEOLOGY AND DEVELOPMENT OF
MINERALS, ACADEMY OF SCIENCES
USSR, RUSSIA.
- 1446 Sairenji, E., Urata, Y., Suzuki,
T., Sasaki, E., Toriumi, H.,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Otski, T.
Neutron activation analysis of arsenic in the hard tissues of the arsenic devitalized teeth.
Nippon Univ. J. Radiation Med. Biol., **1**, 13–16 (1963).
 (JAPANESE) (ENGLISH SUMMARY).
 RADIOISOTOPE RESEARCH LABORATORY,
 NIHON UNIVERSITY, SCHOOL OF
 DENTISTRY, JAPAN.
- 1447 Brooke, C., Peeters, E.
Gamma spectrometry and activation analysis. Principles and methods. Part I.
Rev. M.B.L.E., **7**, 189–213 (1964).
 (FRENCH). UNIVERSITE LIBRE,
 BRUSSELS.
- 1449 Reddy, G. R., Sankar Das, M.
Determination of rubidium and caesium by neutron activation.
Proceedings of the Nuclear and Radiation Chemistry Symposium, 1966, 194–199, Bombay,
 Department of Atomic Energy
 (1966).
 (ENGLISH). ANALYTICAL DIVISION,
 ATOMIC ENERGY ESTABLISHMENT
 TROMBAY, BOMBAY, INDIA.
- 1450 Miller, F. J.
Oxygen determination by nuclear methods.
Isotop. Radiat. Technol., **4**,
 237–243 (Spring 1967).
 (ENGLISH). USA.
- 1451 Guinn, V. P.
Advances in neutron activation analysis.
Third United Nations International Conference on Peaceful Uses of Atomic Energy, A/CONF.28/P/197,
 13p. (1964).
 (ENGLISH) GENERAL ATOMIC
 DIVISION, GENERAL DYNAMICS
 CORPORATION. SAN DIEGO, CALIF.
- 1452 Hightower, D., Swartz, H. M.
Measurement of neutron penetration by tissue activation.
Biological Effects of Neutron and Proton Irradiations, Vol. I,
 141–155, Vienna, International
 Atomic Energy Agency (1964).
 (ENGLISH) (FRENCH, RUSSIAN AND
 SPANISH SUMMARIES). DEPARTMENT OF
 BIOPHYSICS, WALTER REED ARMY
 INSTITUTE OF RESEARCH,
 WASHINGTON, D.C.
- 1453 Burns, F. C.
Determining the oxygen content of steel by neutron activation techniques.
J. Metals, **16**, 948 (1964).
 (ENGLISH). U.S. ARMY MATERIALS
 RESEARCH AGENCY, WATERTOWN, MASS.
- 1454 Schiltz, J. C., Coquema, C.
Neutron activation in geochemistry: Determination method for tantalum, thorium, cobalt, and scandium.
Bull. Soc. Franc. Mineral. Crist.,
87, 156–162 (1964).
 (FRENCH). SERVICE DE MINERALOGIE.
 CENTRE D'ETUDES NUCLEAIRES DE
 FONTENAY-AUX-ROSES, FRANCE.
- 1455 Chinaglia, B., Ciuffolotti, L.,
 Malvano, R.
Determination of sulphur in organic materials by neutron activation techniques.
Energia Nucleare, **10**, 389–394
 (1963).
 (ENGLISH) (ITALIAN SUMMARY).
 SORIN, CENTRO RICERCHE NUCLEARI,
 SALUGGIA (VERCELLI), ITALY.
- 1456 Ciuffolotti, L., Fasolo, G. B.,
 Malvano, R.
Neutron activation analysis of polyphenyls.
Energia Nucleare, **10**, 381–388
 (1963).
 (ENGLISH) ITALIAN SUMMARY).
 SORIN, CENTRO RICERCHE NUCLEARI,
 SALUGGIA (VERCELLI), ITALY.
- 1457 Corless, J. T., Winchester, J. W.
Variations in the ratio Ca-48/(total Ca) in the natural environment.
Pure and Appl. Chem., **8**, No. 3–4,
 317–323 (1964).
 (ENGLISH). MIT, CAMBRIDGE, MASS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1458 Morris, D. F. C., Hill, N., Smith, B. A.
The determination of traces of palladium and platinum in sulphide minerals by neutron-activation analysis.
Mikrochim. Ichnoanal. Acta, No. 5-6, 962-969 (1963).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE, LONDON, W.3, ENGLAND.
- 1460 Cassidy, W. A.
Nondestructive neutron-activation analysis of small particles.
Ann. N.Y. Acad. Sci., **105**, 318-338 (1964).
 (ENGLISH). LAMONT GEOLOGICAL OBSERVATORY OF COLUMBIA UNIVERSITY, PALISADES, N.Y.
- 1461 Lenihan, J. M. A.
Trace elements in biomedical research.
Nucleonics, **23**, No. 1, 50-52 (1965).
 (ENGLISH). WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.
- 1462 Steim, J. M., Benson, A. A.
Derivative activation chromatography.
Anal. Biochem., **9**, 21-34 (1964).
 (ENGLISH). DEPARTMENT OF BIOCHEMISTRY, THE PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA.
- 1463 Rappaport, R.
The thyrotrop in stimulation test: Fractionation and determination of hormonal protein bound iodine in plasma by activation analysis.
Acta Endocrinol., Suppl., No. 89, 21 (1964).
 (ENGLISH). FRANCE.
- 1464 Jimenez, A. T., Rodriguez, G. D.
Activation analysis with the JEN-1 reactor.
Energia Nucl. (Madrid), **7**, 60-79 (1963).
 (SPANISH). COLABORADOR DE PRIMERA DE LA SECCION DE RADIOQUIMICA, DIRECCION DE
- QUIMICA E ISOTOPOS, MADRID, SPAIN.
- 1465 Broda, E.
Activation analysis.
Radioactive Isotopes in Biochemistry, 115-122, Elsevier, Amsterdam (1960).
 (ENGLISH). GERMANY.
- 1466 Brooke, C., Peeters, E.
Gamma spectrometry and analysis by activation application to determination of impurities in natural fluorites. Part 2.
Rev. M.B.L.E., **7**, 266-289 (1964).
 (FRENCH). DIVISION PHYSIQUE NUCLEAIRE, L'UNIVERSITE LIBRE DE BRUXELLES.
- 1467 Pierce, C. M.
Neutron flux measurements: An annotated bibliography.
 AD-600707, 59p. (September 1963).
 (ENGLISH). LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF.
- 1468 Kobayashi, M., Sawai, T.
Neutron activation analysis of alloyed uranium component in carbon steel.
Radioisotopes (Tokyo), **13**, 20-25 (1964).
 (ENGLISH). TOKYO METROPOLITAN ISOTOPE CENTER, JAPAN.
- 1469 Kobayashi, M., Nagatsuka, S., Sawai, T.
Determination of trace elements in aluminum by neutron activation.
Radioisotopes (Tokyo), **13**, 26-31 (1964).
 (ENGLISH). TOKYO METROPOLITAN ISOTOPE CENTER, JAPAN.
- 1470 Manney, T. R., La Roche, G., Padden, R. E., Tobias, C. A.
Measurement of serum organically bound iodine by neutron activation.
 UCRL-9897, 27-30 (1961).
 (ENGLISH). UNIVERSITY OF CALIFORNIA RADIATION LABORATORY, BERKELEY, CALIF.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1471 Mignonsin, E. P., Albert, P.
**Analysis of pure zirconium by
 neutron radio activation.**
Bull. Soc. Chim. France, **2**,
 553-561 (1965).
 (FRENCH). CENTRE DE ETUDES DE
 CHIMIE METALLURGIQUE, VITRY,
 FRANCE.
- 1472 Armstrong, A. A., Rutherford, H.
 A.
**Applications of nuclear radiation
 and radioisotopes to textile
 materials and processes.**
**Quarterly report, March 1, 1961 –
 May 31, 1961.**
 NCSC-2477-3, 12p. (June 30, 1961).
 (ENGLISH). DEPARTMENT OF TEXTILE
 CHEMISTRY, SCHOOL OF TEXTILES,
 NORTH CAROLINA STATE COLLEGE OF
 AGRICULTURE AND ENGINEERING,
 RALEIGH, NORTH CAROLINA.
- 1473 Kohn, A.
**Various applications of
 short-lived radioisotopes in the
 study of metals.**
 AEC-TR-5824, 24p. (1962).
 (ENGLISH TRANSLATION). IRON
 METALLURGY RESEARCH INSTITUTE,
 SAINT GERMAIN, FRANCE.
- 1474 Haskin, L. A., Gehl, M. A.
**The rare-earth distribution in
 sediments.**
J. Geophys. Res., **67**, 2537-2541
 (1962).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY. UNIVERSITY OF
 WISCONSIN, MADISON, WISCONSIN.
- 1475 Baker, C. A.
Gamma-activation analysis.
Analyst (London), **92**, No. 1099,
 601-610 (1967).
 (ENGLISH). ANALYTICAL SCIENCES
 DIVISION, AERE, HARWELL, BERKS.,
 ENGLAND.
- 1476 Leddicotte, G. W.
Nucleonics.
Anal. Chem., **34**, 143R-171R (1962).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENN.
- 1477 Cuypers, M.
**Systematic analysis of high purity
 copper, following its irradiation
 by thermal neutrons.**
Ann. Chim. (Paris), **9**, 509-540
 (1964).
 (FRENCH). LABORATOIRE DE
 RADIOCHIMIE ANALYTIQUE DU CENTRE
 D'ETUDES DE CHIMIE METALLURGIQUE,
 VITRY (SEINE), FRANCE.
- 1478 Holland, W. W., Gleit, C. E.,
 Benson, P. A., Wrigley, R. C.,
 Leventhal, L.
**Analysis of high altitude filter
 and impactor media for evaluation
 of proposed snap reentry
 experiment using nonradioactive
 tracer. Final report.**
 WL TDR-64-68, 143p. (September
 1964).
 (ENGLISH). RESEARCH AND
 TECHNOLOGY DIVISION, AIR FORCE
 WEAPONS LABORATORY, AIR FORCE
 SYSTEMS COMMAND, KIRTLAND AIR
 FORCE BASE, NEW MEXICO.
- 1479 Steim, J. M.
Neutron activation chromatography.
 Thesis, Pennsylvania State
 University, 111p. (September
 1962).
 (ENGLISH). THE GRADUATE SCHOOL,
 DEPARTMENT OF AGRICULTURAL AND
 BIOLOGICAL CHEMISTRY, THE
 PENNSYLVANIA STATE UNIVERSITY.
- 1480 Filby, R. H.
**Neutron activation determinations
 of bromine in some geochemical
 standards.**
Geochim. Cosmochim. Acta, **29**,
 49-51 (1965).
 (ENGLISH). MINERALOGICAL-GEOLOGIC-
 AL MUSEUM, UNIVERSITY OF OSLO,
 NORWAY.
- 1481 Oka, Y., Kato, T.
**Activation analysis of zirconium
 in hafnium by means of
 photonuclear reaction.**
Nippon Kagaku Zasshi, **86**, 835-839
 (August 1965).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPARTMENT OF CHEMISTRY, FACULTY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

OF SCIENCE, TOHOKU UNIVERSITY,
SENDAI-SHI, JAPAN.

- 1482 Guinn, V. P.
Activation analysis.
Ind. Res., **6**, No. 9, 30–36 (1964).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.
- 1483 Condit, R. H., Holt, J. B.
**A technique for studying oxygen
diffusion and locating oxide
inclusion in metals by using the
proton radioactivation of
oxygen-18.**
J. Electrochem. Soc., **111**,
1192–1194 (1964).
(ENGLISH). LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, LIVERMORE,
CALIFORNIA.
- 1484 Roderbourg, J., Massaux, F.,
Kirchmann, R.
**Application of radioactivation
analysis to determination of
molybdenum in legumes.**
*Bull. Inst. Agron. Sta. Rech.
Gembloux*, **31**, 537–549 (1963).
(FRENCH). C.A.M.I.R.A. (IRSI)
GEMBOUX.
- 1485 Doge, H. G.
**Remarks on the calculation of
activation analyses.**
Isotopen Tech., **2**, 204–205 (July
1962).
(GERMAN). INSTITUT FUR
ANGEWANDTE PHYSIK DER
REINSTOFFE DRESDEN.
- 1486 Cobb, J. C.
**Determination of lead in
meteorites by alpha activation
analysis.**
J. Geophys. Res., **69**, 1895–1901
(1964).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, BROOKHAVEN NATIONAL
LABORATORY, UPTON, N.Y.
- 1487 Grosel, J., Sorantin, H.
**Interference-free determination of
impurities in pure niobium by
neutron activation and gamma
spectrometry.**
SGAE-CH-11/1964, 20p. (1964).
(GERMAN). OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, GES. M.B.H.
REAKTORZENTRUM SEIBERSDORF.
- 1488 Guinn, V. P.
**World-wide developments in
isotopes, radiation, and nuclear
explosives.**
Nucl. News, **7**, 47–49 (1964).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.
- 1489 Gray, A. L.
**The analog — an industrial
application of activation
analysis.**
Nucl. Eng., **9**, 205–207 (1964).
(ENGLISH). PLESSEY NUCLEONICS
LTD., NORTHAMPTON, ENGLAND.
- 1490 Vernin, E.
Particle accelerator applications.
Nucl. Eng., **9**, 201–203 (1964).
(ENGLISH). ACCELERATOR DIVISION,
SAMES, FRANCE.
- 1491 Kamemoto, Y.
**Rapid non-destructive analysis of
oxygen by neutron activation.**
Nature, **203**, 513–514 (1964).
(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKAI-MURA,
IBARAKI, JAPAN.
- 1492 Sorantin, H., Patek, P.
**Determination of trace elements in
polyethylene by activation
analysis.**
SGAE-CH-9/1964, 33p. (1964).
(GERMAN). INSTITUT FUR CHEMIE,
REAKTORZENTRUM SEIBERSDORF.
- 1493 Lavrukhina, A. K., Kalicheva, I.
S., Kolesov, G. M.
**Neutron activation determination
of scandium in meteorites with
application of substoichiometric
separation and gamma-spectrometry.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Geokhimiya*, No. 6, 651–654 (1967).
(RUSSIANO (ENGLISH SUMMARY).
V.I. VERNADSKY INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, USSR, ACADEMY OF
SCIENCES, MOSCOW, RUSSIA.
- 1494 Lovering, J. F., Morgan, J. W.
**Uranium and thorium abundances in
stony meteorites. I. The
chondritic meteorites.**
J. Geophys. Res., **69**, 1979–1988
(1964).
(ENGLISH). DEPARTMENT OF
GEOPHYSICS INSTITUTE FOR ADVANCED
STUDIES, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, A.C.T.
AUSTRALIA.
- 1495 Lehman, R. L., Zeller, J.
**Reactor activation of certain
sands and clays.**
J. Geophys. Res., **69**, 4247–4255
(1964).
(ENGLISH). LAWRENCE RADIATION
LABORATORY. UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.
- 1496 Tasaki, A., Saitoh, M., Kinbara,
A.
**Thickness measurements of thin
gold films by gamma-ray
spectroscopy.**
Japan J. Appl. Phys., **3**, 234–235
(1964).
(ENGLISH). DEPARTMENT OF PHYSICS,
UNIVERSITY OF TOKYO, BUNKYO-KU,
TOKYO, JAPAN.
- 1497 Kamemoto, Y., Yamagishi, S.
Re-activation analysis of mercury.
Nature, **202**, 487–488 (1964).
(ENGLISH). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, DIVISION OF
NUCLEAR ENGINEERING, TOKAI-MURA,
MAKA-GUN. IBARAKI, JAPAN.
- 1498 Morgan, J. W., Lovering, J. F.
**Uranium and thorium abundances in
stony meteorites. 2. The
achondritic meteorites.**
J. Geophys. Res., **69**, 1989–1994
(1964).
(ENGLISH). DEPARTMENT OF
- GEOPHYSICS, INSTITUTE FOR
ADVANCED STUDIES, AUSTRALIAN
NATIONAL UNIVERSITY, CANBERRA,
A.C.T., AUSTRALIA.
- 1499 Ricci, E., Dyer, F. F.
**Second-order interference in
activation analysis.**
Nucleonics, **22**, No. 6, 45–50
(1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1500 Adams, F., Hoste, J.
**Activation analysis of antimony by
sum-coincidence spectrometry.**
Nucleonics, **22**, No. 3, 55–57
(1964).
(ENGLISH). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 1501 Abe, S.
**Photoactivation of vanadium and
its application for the
determination of titanium in
vanadium.**
Nippon Kagaku Zasshi, **87**, 714–717
(July 1966).
(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMICAL
ENGINEERING, YAMAGATA UNIVERSITY,
MOTONAKABAKURO-CHO, YONEZAWA-SHI,
JAPAN.
- 1502 Morgan, J. W., Lovering, J. F.
**Rhenium and osmium abundances in
stony meteorites.**
Science, **144**, 835–836 (1964).
(ENGLISH). DEPARTMENT OF
GEOPHYSICS, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, AUSTRALIA.
- 1503 Blondel, A., Colas, R., Cornuet,
R., Hamelin, R., Kohn, A., Lamm,
A., Leclerc, P., Leveque, P.,
Quesson, M., Rabot, R., Rochas,
P., Thiery, J.
**Industrial applications of
radioelements.**
*Les Applications Industrielles des
Radioelements*, 352p., Paris,
Editions Eyrolles and Editions
Gauthier-Villars (1962).
(FRENCH). FRANCE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1504 Flegenhimer, J.
**Activation analysis of the Dutch
 50 c. Stamp of 1867.**
Radiochim. Acta, **3**, 61–62 (1964).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). COMISION NACIONAL DE
 ENERGIA ATOMIC, BUENOS-AIRES,
 ARGENTINA.
- 1505 Rybach, L.
**Neutron activation analysis of
 traces of sodium in quartz.**
Radiochim. Acta, **2**, 138–140
 (1964).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). INSTITUT FUR
 KRISTALLOGRAPHIE UND PETROGRAPHIE
 DER ETH, ZURICH. DAT 1964
- 1506 Prouza, Z., Rakovic, M.
**Resonance neutrons in the
 activation analysis of gold.**
Chem. Zvesti, **22**, No. 2, 87–92
 (1968).
 (ENGLISH) (CZECH AND RUSSIAN
 SUMMARIES). DEPARTMENT OF
 MEDICAL PHYSICS AND NUCLEAR
 MEDICINE, CHARLES UNIVERSITY,
 PRAGUE, CZECHOSLOVAKIA.
- 1507 Okada, M.
**Short-lived nuclides formed by
 neutron activation.**
Nucleonics, **22**, No. 8, 110–111
 (1964).
 (ENGLISH). GOVERNMENT CHEMICAL
 INDUSTRIAL RESEARCH INSTITUTE,
 HON-MACHI, SHIBUYA-KU, TOKYO,
 JAPAN.
- 1508 Guinn, V. P.
**Nuclear highlights in spectrometry
 and activation analysis.**
Nucleonics, **22**, No. 3, 70–72,
 74–76 (1964).
 (ENGLISH). GENERAL ATOMIC, SAN
 DIEGO, CALIF.
- 1509 Yoshida, H., Goshi, Y.
**Activation analysis of the small
 amount of oxygen in mineral by
 fast neutron.**
Kogyo Kagaku Zasshi, **67**, 1832–1835
 (1964).
 (JAPANESE). JAPAN.
- 1510 Takeuchi, T., Ishii, D.
**Neutron-activation analysis of
 impurities in gelatin and
 alumina.**
Kogyo Kagaku Zasshi, **67**, 1835–1838
 (1964).
 (JAPANESE). JAPAN.
- 1511 Okada, M.
**Empirical formula for
 self-shielding effect in neutron
 activation.**
Tokyo Kogyo Shikensho Hokoku, **58**,
 No. 9–10. 469 (1963).
 (JAPANESE) (ENGLISH SUMMARY).
 GOVERNMENT CHEMICAL INDUSTRIAL
 RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1512 Soremark, R., Lundberg, M.
**Analysis of the concentrations of
 Cr, Ag, Fe, Co, Pt, and Rb in
 normal human dentine.**
Odontol. Revy, **15**, 285–289 (1964).
 (ENGLISH). HARVARD SCHOOL OF
 DENTAL MEDICINE, BOSTON, MASS.,
 AND THE FACULTY OF ODONTOLOGY,
 UNIVERSITY OF UMEA, SWEDEN.
- 1513 Shigematsu, T., Goda, S.
**Activation analysis of manganese
 with Pu + Be 1c neutron source.**
Radioisotopes (Tokyo), **13**, 13–19
 (1964).
 (JAPANESE) (ENGLISH SUMMARY).
 KYOTO UNIVERSITY, JAPAN.
- 1514 Ishibashi, N., Kamata, S.
**Activation analysis of fluorine
 and bromine with 14 MeV neutrons.**
Radioisotopes (Tokyo), **13**, 7–12
 (1964).
 (JAPANESE) (ENGLISH SUMMARY).
 FACULTY OF ENGINEERING, KYUSHU
 UNIVERSITY, FUKUOKA, JAPAN.
- 1515 Yamada, Y.
**The determination of micronutrient
 elements in soil by
 radioactivation analysis.**
Radioisotopes (Tokyo), **13**, 32–38
 (1964).
 (JAPANESE) (ENGLISH SUMMARY).
 FACULTY OF AGRICULTURE, KYUSHU
 UNIVERSITY, JAPAN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1516 Van Eesteren, J.
Activation analysis.
Chemie and Technik, **17**, 61-65
 (1962).
 (DUTCH). REACTOR CENTRUM
 NEDERLAND.
- 1517 Oliveri, E.
**Intermittent neutron activation by
 "square waves" and application to
 measurement of short half lives
 in the induced activity.**
*Atti Accad. Sci. Lettere Arti
 Palermo, Pt. I*, **22**, 275-285
 (1961-1962).
 (ITALIAN) (ENGLISH AND FRENCH
 SUMMARIES). UNIVERSITA, PALERMO,
 ITALY.
- 1518 Ricq, J. C., Vidal, J. P.,
 Capitant, M., Troly, G.
**Determination of niobium and
 tantalum in rocks and minerals by
 neutron activation.**
Chim. Anal. (Paris), **47**, No. 2,
 77-80 (1965).
 (FRENCH). SOCIETE ATOME
 INDUSTRIEL, FRANCE.
- 1519 Simkova, M., Kukula, A. F.,
 Sluneco, J.
**Determination of iodine in organic
 polymers by activation analysis.**
Chem. Zvesti, **19**, 115-119 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN AND
 GERMAN SUMMARIES). USTAV
 JADERNEHO VYZKUMU CESKOSLOVENSKE
 ADADEMIE VED, REZ U PRAHY,
 CZECHOSLOVAKIA.
- 1520 Rohnsch, W.
**Determination of phosphorus,
 sulfur, and chlorine in selenium
 by activation analysis.**
Mikrochim. Ichnoanal. Acta, No. 1,
 10-16 (1965).
 (GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FUR
 ANGEWANDTE RADIOAKTIVITAT,
 LEIPZIG, DER DEUTSCHEN AKADEMIE
 DER WISSENSCHAFTEN ZU BERLIN,
 GERMANY.
- 1521 Ramdohr, H. F.
**Use of activation analysis for
 copper-ore sorting.**
- 1522 Merz, E.
**Activation analysis with fast
 neutrons using a mobile neutron
 generator.**
*Atomstrahlung in Medizin und
 Technik*, 211-216, Munich, Verlag
 Karl Thiemig KG (1964).
 (GERMAN). KERNFORSCHUNGSANLAGE
 JULICH, INSTITUT FUR RADIOCHEMIE,
 GERMANY.
- 1523 Fischer, E.
**Methods and equipment for
 irradiation techniques at the
 Geesthacht research reactor.**
*Atomstrahlung in Medizin und
 Technik*, 199-205, Munich, Verlag
 Karl Thiemig KG (1964).
 (GERMAN). INSTITUT FUR
 REAKTORPHYSIK DER GESELLSCHAFT
 FUR KERNENERGIEVERWERTUNG IN
 SCHIFFBAU UND SCHIFFFAHRT
 MBH, REAKTORSTATION GEESTHACT-TESP
 ERHUDE, GERMANY.
- 1524 Thiel, A.
**Use of small reactors in biology,
 medicine, and industry.**
*Atomstrahlung in Medizin und
 Technik*, 83-90, Munich, Verlag
 Karl Thiemig KG (1964).
 (GERMAN). GUTEHOFFNUNGSHUTTE
 STERKRADE, OBERSHAUSEN, GERMANY.
- 1525 Lux, F.
**Activation determination of silver
 in materials with high cadmium
 content. II. The development of
 irradiation experiments. Analysis
 of tests.**
Radiochim. Acta, **3**, 50-56 (1964).
 (GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FUR
 RADIOCHEMIE DER TECHNISCHEM
 HOCHSCHULE MUNCHEN, GERMANY.
- 1526 Kiesl, W., Hecht, F.
Activation determination of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

impurities in aluminum. IV.

Determination of vanadium and nickel.

Radiochim. Acta, **3**, 48–50 (1964).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). REAKTORZENTRUM SEIBERSDORF DER OSTERREICHISCHEN STUDIENGESSELLSCHAFT FUR ATOMENERGIE GES. M.B.H. (SGAE) UND ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.

rocks in radioactive disequilibrium by neutron activation analysis (1).

Mem. Coll. Sci. Univ. of Kyoto, Ser. B, **33**, 47–51 (November 1966).

(ENGLISH). GEOLOGICAL AND MINERALOGICAL INSTITUTE, UNIVERSITY OF KYOTO, JAPAN.

1527 Bobleter, O., Musyl, I.

Instrumental activation determination of uranium-238 over neptunium-239.

Radiochim. Acta, **3**, 57–61 (1964).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). ATOMINSTITUT DER OSTERREICHISCHEN HOCHSCHULEN, WIEN, UND ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.

1528 Aumann, D. C., Born, H. J.

Activation determination of lithium using the reaction chain ${}^6\text{Li}(n,\alpha){}^3\text{H}$ and ${}^{16}\text{O}(t,n){}^{18}\text{F}$.

Radiochim. Acta, **3**, 62–73 (1964).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MUNCHEN, GERMANY.

1532 Aumann, D. C., Born, H. J.

Determination of the ${}^{18}\text{O}$ concentration in water by irradiation with neutrons.

Naturwissenschaften, **51**, 159 (1964).

(GERMAN). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE, MUNCHEN.

1528 Aumann, D. C., Born, H. J.

Activation determination of lithium using the reaction chain ${}^6\text{Li}(n,\alpha){}^3\text{H}$ and ${}^{16}\text{O}(t,n){}^{18}\text{F}$.

Radiochim. Acta, **3**, 62–73 (1964).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MUNCHEN, GERMANY.

1533 Kamemoto, Y., Yamagishi, S.

Determination of sodium, antimony, arsenic and copper in lead metal by neutron activation analysis with radiochemical separation.

Nippon Kagaku Zasshi, **84**, 823–826 (1963).

(JAPANESE) (ENGLISH SUMMARY). DIVISION OF CHEMISTRY, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI, JAPAN.

1529 Baumgartner, F., Schon, A.

Separation of isomeric diiodobenzene and iodobenzene by paper chromatography and their detection by activation analyses.

J. Chromatog., **13**, 266–268 (1964).

(GERMAN). INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE, MUNCHEN, GERMANY.

1534 Holz, J.

Neutron activation of phosphatides.

Naturwissenschaften, **51**, 241 (1964).

(GERMAN). INSTITUT FUR PHARMAZEUTISCHE ARZNEIMITTELLEHRE DER UNIVERSITAT, MUNCHEN.

1530 Fujii, I.

The neutron-activation oxygen meter used in industries and its applications.

Erekutoronikusu, **9**, 437–444 (April 1964).

(JAPANESE). JAPAN.

1535 Daniel, R., Haerdi, W., Monnier, D.

Determination of silicon in mineral oil by fast neutron activation.

Chimia, **21**, No. 11, 544–546 (1967).

(FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE ANALYTIQUE ET DE CHIMIE MINERALE DE L'UNIVERSITE DE GENEVE, SWITZERLAND.

1531 Hatuda, Z., Nishimura, S.,

Asayama, T.

A trial method of determining uranium and thorium content of

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1536 Haerdi, W.
On the nomographic determination of interferences and limits of determination of elements by gamma spectrometry after neutron activation.
Chimia (Aarau), **18**, 138–139 (1964).
 (FRENCH). LABORATOIRES DE CHIMIE ANALYTIQUE ET DE CHIMIE MINERALE DE L'UNIVERSITE, ECOLE DE CHIMIE DE GENEVE.
- 1537 Choy, T. K., Lukens, H. R., Andersen, G. H.
Determination of zirconium by activation and chemical separation of ⁹⁷Nb.
Nuclear Applications, **1**, No. 2, 179–183 (April 1965).
 (ENGLISH). GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 1538 Ricq, J. C., Capitant, M., Trolly, G.
Determination of niobium and tantalum by neutron activation in rocks and minerals.
Compt. Rend., **258**, 6486–6488 (1964).
 (FRENCH). BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES ET SOCIETE ATOME INDUSTRIEL, FRANCE.
- 1539 Diebolt, J.
Analysis of gases by neutron radioactivation.
Bull. Soc. Chim. France, No. 6, 1389–1392 (1964).
 (FRENCH). DEPARTEMENT DES RADIOELEMENTS, C.E.N., GRENOBLE, FRANCE.
- 1540 Fleurence, A.
Application of activation analysis techniques and autoradiography to some ceramic samples. Results of the first tests.
Bull. Soc. Franc. Ceram., No. 61, 47–53 (1963).
 (FRENCH). INGENIEUR DE RECHERCHES, SOCIETE FRANCAISE DE CERAMIQUE. FRANCE.
- 1541 Girardi, F., Pauly, J., Sabbioni, E.
Determination of cobalt in steel by neutron activation and gamma spectrometry.
Bull. Soc. Chim. France, No. 7, 1439–1445 (1964).
 (FRENCH). CENTRE COMMUN DE RECHERCHE, EURATOM, ISPRA, VARESE, ITALY.
- 1542 Wodkiewicz, L.
Determination of impurities in metallic bismuth by neutron activation.
Nukleonika, **8**, 545–552 (1963).
 (FRENCH)(POLISH, RUSSIAN AND ENGLISH SUMMARY). INSTITUT DE RECHERCHES NUCLEAIRES, DEPARTEMENT DE CHIMIE ANALYTIQUE, WARSZAWA, POLAND.
- 1543 Bouville, A., Blanc, D., Couly, J., Fontan, J.
A new method of determination of certain gaseous fission products.
Nucl. Instr. Meth., **27**, 329–331 (1964).
 (FRENCH) (ENGLISH SUMMARY). CENTRE DE PHYSIQUE NUCLEAIRE, FACULTE DES SCIENCES, TOULOUSE, FRANCE.
- 1544 Nucleonics
Americium–241 sources for analytical applications.
Nucleonics, **20**, No. 11, 90 (Nov. 1962).
 (ENGLISH). USA.
- 1545 Simkova, M., Sluneko, J.
Application of an air-operated device for irradiation of samples in a reactor for activation analysis.
Chem. Zvesti, **22**, No. 2, 130–136 (1968).
 (RUSSIAN) (ENGLISH AND CZECH SUMMARIES). THE NUCLEAR RESEARCH INSTITUTE OF THE CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 1546 Lobanov, E. M., Zvyagin, V. I., Zverev, B. P., Blinkov, D. I.
On the sensitivity of a method for determining boron in a silicon by

ACTIVATION ANALYSIS—ACCESSION NUMBERS

neutron capture reactors.

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*, 64–73,
Tashkent, Publishing House of the
Sciences (1964).

(RUSSIAN). RUSSIA.

1547 Lobanov, E. M., Zvyagin, V. I.,
Zverev, B. P.

**The problem of determining a low
concentration of boron impurity
in silicon.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*, 74–76,
Tashkent, Publishing House of the
Sciences (1964).

(RUSSIAN). RUSSIA.

1548 Lobanov, E. M., Zvyagin, V. I.,
Kist, A. A., Sviridova, A. I.,
Evseenko, Y., Moskovtseva, G. A.

**Determination of impurities in
monocrystalline germanium by the
method of activation analysis.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*, 77–83,
Tashkent, Publishing House of the
Sciences (1964).

(RUSSIAN). RUSSIA.

1549 Babaev, A., Lobanov, E. M.

**Gamma spectrometric method for
determining lanthanum and
samarium in minerals.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*, 89–94,
Tashkent, Publishing House of the
Sciences (1964).

(RUSSIAN). RUSSIA.

1550 Lobanov, E. M., Miranskii, I. A.,
Pozychanyuk, V. F., Saifutdinova,
D. G., Khaidarov, A. A.

**On the problems of determining
gold in ores and rocks.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
95–100, Tashkent, Publishing
House of the Sciences (1964).

(RUSSIAN). RUSSIA.

1551 Lobanov, E. M., Miranskii, I. A.,
Romanov, M. M., Khaidarov, A. A.

**On the determination of gold
content in ores by neutron**

activation analysis.

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
101–107, Tashkent, Publishing
House of the Sciences (1964).

(RUSSIAN). RUSSIA.

1552 Dubois, J., Colard, J., Vis, H. L.

**The study of hydroelectrolytic
metabolism in man by muscular
biopsies analysis (with special
reference to neutron activation).**

J. Nucl. Biol. Med., **10**, 39–51
(April–June 1966).

(ENGLISH). SERVICE ET
LABORATOIRE DE PEDIATRIE,
UNIVERSITE LIBRE DE BRUXELLES,
AND CENTRE D'ETUDE DE L'ENERGIE
NUCLEAIRE, MOL, BELGIUM.

1553 Lobanov, E. M., Romanov, M. M.,
Khaidarov, A. A.

**Determination of mercury in ores
and concentrates by gamma
spectrometry of radiative neutron
capture in the horizontal channel
of VVR–S.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
111–115, Tashkent, Publishing
House of the Sciences (1964).

(RUSSIAN). RUSSIA.

1554 Lobanov, E. M., Norikov, A. P.,
Nikanorov, G. S., Romanov, O. M.,
Khaidarov, A. A.

**The efficiency of locating copper
sulfide ores in a well profile by
neutron activation logging.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
116–125, Tashkent, Publishing
House of the Sciences (1964).

(RUSSIAN). RUSSIA.

1555 Lobanov, E. M., Novikov, A. P.,
Nikanorov, G. S., Khaidarov, A.
A.

**Determination of copper content of
drilled holes by means of
activation logging.**

*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
126–137, Tashkent, Publishing

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- House of the Sciences (1964).
(RUSSIAN). RUSSIA.
- 1556 Lobanov, E. M., Novikov, A. P.,
Nikanorov, S. G., Khaidarov, A.
A.
**A new method of interpreting
two-component curves which
includes the decay of an induced
activity and which takes into
account the background of
long-lived isotopes.**
*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
138–144, Tashkent, Publishing
House of the Sciences (1964).
(RUSSIAN). RUSSIA.
- 1557 Lobanov, E. M., Novikov, A. P.,
Khaidarov, A. A., Chernyshev, A.
I.
**A device for automatic analysis of
two-component isotopic mixtures
with nearly identical half lives
investigated by directed activity
method.**
*Radiatsionnye Effekty v
Kondensirovannykh Sredakh*,
145–148, Tashkent, Publishing
House of the Sciences (1964).
(RUSSIAN). RUSSIA.
- 1558 Glasson, V. V., Drynkin, V. I.,
Leipunskaya, D. I., Putyatina, N.
D.
**Rapid activation analysis of
siliceous rocks.**
Nuclear Geophysics, III, 599–612
(1963).
(RUSSIAN) (ENGLISH AND POLISH
SUMMARIES). ALL-UNION SCIENTIFIC
AND RESEARCH INSTITUTE OF
NUCLEAR GEOPHYSICS AND
GEOCHEMISTRY, MOSCOW, RUSSIA.
- 1559 Kholin, A. I., Yakubson, K. I.,
Nedostup, G. A.
**Application of gamma-ray
spectrometry from the capture and
excited activity in the
investigation of chemical
composition of rocks.**
Nuclear Geophysics, IV, 781–811
(1963).
(RUSSIAN) (ENGLISH AND POLISH
SUMMARIES). I.M. GHUBKINS MOSCOW
INSTITUTE OF PETROCHEMICAL AND
GAS INDUSTRY, NUCLEAR GEOPHYSICS
LABORATORY, MOSCOW, RUSSIA.
- 1560 Lutz, G. J., De Soete, D.
**Determination of carbon in sodium
by photon activation analysis.**
Anal. Chem., 40, No. 4, 820–822
(1968).
(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 1561 Zvyagin, V. I., Lobanov, E. M.,
Zverev, B. P., Lenchenko, V. M.
**Application of $^{10}\text{B} (n, \alpha) ^7\text{Li}$
reaction to the determination of
boron in silicon.**
*Radiatsionnye Effekty v Tverdykh
Telakh*, 56–67, Tashkent,
Publishing House of Academy of
Sciences (1963).
(RUSSIAN). RUSSIA.
- 1562 Oosterkamp, W. J.
**Technical fruits of nuclear
research.**
Philips Tech. Rev., 24, 1–13 (14
Nov. 1962).
(ENGLISH). PHILIPS RESEARCH
LABORATORIES, EINDHOVEN,
NETHERLANDS.
- 1563 Yamagata, N.
**The concentration of common cesium
and rubidium in human body.**
J. Radiation Res. (Japan), 3, 9–30
(Mar. 1962).
(ENGLISH). DEPARTMENT OF
RADIOLOGICAL HEALTH, THE
INSTITUTE OF PUBLIC HEALTH,
TOKYO, JAPAN.
- 1564 Kiesl, W., Hecht, F., Sorantin, H.
**Determination of impurities in
aluminum by activation analysis.
V. Analytical scheme for the
determination of antimony, tin,
scandium, hafnium, chromium,
cobalt, iron, zinc, and indium.**
Mikrochim. Acta, 954–966 (1964).
(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). REAKTORZENTRUM
SEIBERSDORF DER OSTERREICHISCHEN
STUDIENGESELLSCHAFT FÜR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- ATOMENERGIE GES.M.B.H. UND DEM
ANALYTISCHEN INSTITUT DER
UNIVERSITÄT WIEN.
- 1565 Aoki, F., Okada, M.
**Study on rapid analysis by
radioactivation (IV):
Determination of vanadium in
petroleum.**
Tokyo Kogyo Shikensho Hokoku, **58**,
No. 2, 49–53 (1963).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN.
- 1566 Baedeker, P. A., Ehmann, W. D.
**The distribution of some noble
metals in meteorites and natural
materials.**
Geochim. Cosmochim. Acta, **29**,
329–342 (1965).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 1567 Wainerdi, R. E., Fite, L. E.,
Steele, E. L.
**The use of high-speed,
computer-coupled, automatic
systems for nondestructive
medical and biologic nuclear
activation analyses.**
NASA-CR-52997, 48p. (1963).
(ENGLISH). TEXAS A AND M
UNIVERSITY, ACTIVATION ANALYSIS
RESEARCH LABORATORY, COLLEGE
STATION, TEXAS.
- 1568 Crofford, W. N., Kovacina, T. A.
**The determination of mercury in
lithium hydroxide and lithium
carbonate by activation analysis.**
TID-7606, 248–252 (1960).
(ENGLISH). U.S. NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 1569 Duce, R. A., Winchester, J. W.,
Van Nahl, T. W.
**Iodine, bromine, and chlorine in
the Hawaiian marine atmosphere.**
J. Geophys. Res., **70**, 1775–1799
(1965).
(ENGLISH). DEPARTMENTS OF GEOLOGY
AND GEOPHYSICS AND OF CHEMISTRY,
MIT, CAMBRIDGE, MASS.
- 1570 Gibbons, D., Simpson, H.
**The determination of sulphur in
materials of high neutron
absorption cross-section by fast
neutron activation analysis.**
*Intern. J. Appl. Radiation
Isotopes*, **9**, 143 (1960).
(ENGLISH). UKAEA, AERE, HARWELL,
DIDCOT, ENGLAND.
- 1571 Tanner, J. T., Ehmann, W. D.
**The abundance of antimony in
meteorites, tektites and rocks by
neutron activation analysis.**
Geochim. Cosmochim. Acta, **31**, No.
10, 2007–2026 (1967).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 1572 Wood, H. L., Logerquist, B. A. A.
**Wear measurement of machine parts
by activation analysis.**
TID-7689, 137–142.
(ENGLISH). VIRGINIA POLYTECHNIC
INSTITUTE, BLACKSBURG.
- 1573 Girardi, F., Guzzi, G., Pauly, J.
**Application of lithium-drifted
germanium solid-state detectors
to the determination of hafnium
in zirconium oxide by activation
analysis.**
Radiochim. Acta, **4**, 109–110
(1965).
(ENGLISH). JOINT NUCLEAR RESEARCH
CENTER, ISPRA ESTABLISHMENT,
ITALY.
- 1574 Zitnansky, B., Sebestian, I.
**Gamma spectrometric determination
of hafnium in zirconium.**
Chem. Listy, **57**, 518–526 (1963).
(CZECHOSLOVAKIAN) (RUSSIAN AND
GERMAN SUMMARIES). VYZKUMNY
USTAV ZVARCSKY, BRATISLAVA.
- 1575 Ruzicka, J., Stary, J.
**Substoichiometric determination of
traces of metals via activation
analysis and isotopic dilution
methods.**
Chem. Listy, **57**, 1025–1047 (1963).
(CZECHOSLOVAKIAN). KATEDRA
JADERNIE CHEMIE, FAKULTA

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- TECHNICKE A JADERNE FYSIKY,
PRAHA.
- 1576 Sedlacek, W. A., Ryan, V. A.
Prompt activation analysis for lithium-6.
Anal. Chem., **40**, No. 4, 678-682 (1968).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WYOMING, LARAMIE, WYOMING.
- 1577 Beyermann, K.
X-ray fluorometric and activation analytical determination of bromine in biological material.
Z. Anal. Chem., **183**, 199-203 (1961).
(GERMAN). INSTITUT FUR ANORGANISCHE CHEMIE UND KERNCHEMIE DER UNIVERSITAT MAINZ.
- 1578 Grothe, K. H., Reinhardt, K.
Determination of small amounts of hafnium in zirconium oxide by neutron activation analysis.
Z. Anal. Chem., **204**, 176-181 (1964).
(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR ANORGANISCHE CHEMIE DER TECHNISCHEN HOCHSCHULE HANNOVER.
- 1579 Stary, J., Ruzicka, J.
Substoichiometric determination of traces of metals.
Talanta, **11**, 697-702 (1964).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF NUCLEAR CHEMISTRY, FACULTY OF TECHNICAL AND NUCLEAR PHYSICS, PRAHA, BREHOVA, CZECHOSLOVAKIA.
- 1580 Isenhour, T. L., Morrison, G. H.
A computer program to optimize times of irradiation and decay in activation analysis.
Anal. Chem., **36**, 1089-1092 (1964).
(ENGLISH). DEPARTMENT OF CHEMISTRY, CORNELL UNIVERSITY, ITHACA, N.Y.
- 1581 Herak, M. J., Morris, D. F. C.
Neutron activation analysis of traces of palladium, gold, and iridium in supernates from the refining of precious metals.
Croat. Chem. Acta, **36**, 67-71 (1964).
(ENGLISH). DEPARTMENT OF CHEMISTRY, BRUNEL COLLEGE, LONDON, W. 3. ENGLAND.
- 1582 Patrovsky, V.
Progress in the analytical chemistry of niobium and tantalum.
Chem. Listy, **58**, 657-664 (1964).
(CZECHOSLOVAKIAN). USTREDNI USTAV GEOLOGICKY, PRAHA.
- 1583 Armstrong, A. A., Rutherford, H. A.
Application of nuclear radiation and radioisotopes to textile materials and processes. Progress and quarterly report, Dec. 1, 1960-Feb. 28, 1961.
NCSC-2477-2, 62p. (March 31, 1961).
(ENGLISH). NORTH CAROLINA STATE COLLEGE, SCHOOL OF TEXTILES, RALEIGH, N.C.
- 1584 Gleit, C. E., Holland, W. D., Benson, P. A., Russell, I. J.
Neutron activation analysis of elements at concentrations of less than 1 part/10⁹.
Trans. Am. Nucl. Soc., **7**, 204 (1964).
(ENGLISH). TRACERLAB, RICHMOND, CALIF.
- 1585 Dvukhbabnaya, T. M., Lobanov, E. M., Miranskii, I. A., Pozychanyuk, V. F., Saifutdinova, D. G., Khaidarov, A. A.
Determination of small amounts of gold and rhenium in samples of rocks by neutron activation analysis.
Industrial Lab., **30**, 1028-1030 (1964).
(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES UZBEK SSR, RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1586 Mc Farling, J. L., Gluck, P.,
Kirchner, J. F., Sunderman, D. N.
**Calibration of an isotopic neutron
source for intrinsic-tracer
process control.**
Trans. Am. Nucl. Soc., **5**, 198-199
(1962).
(ENGLISH). BATELLE MEMORIAL
INSTITUTE, COLUMBUS, OHIO.
- 1587 Ruzicka, J., Sary, J., Zeman, A.
**A new principle of activation—anal-
ysis separations—VIII.**
**Substoichiometric determination
of traces of antimony.**
Talanta, **11**, 1151-1156 (1964).
(ENGLISH). (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF NUCLEAR
CHEMISTRY, FACULTY OF TECHNICAL
AND NUCLEAR PHYSICS, PRAHA,
BREHOVA, CZECHOSLOVAKIA.
- 1588 Zeman, A., Ruzicka, J., Sary, J.,
Kleckova, E.
**A new principle of activation—anal-
ysis separations—VII.**
**Substoichiometric determination
of traces of arsenic.**
Talanta, **11**, 1143-1149 (1964).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF NUCLEAR
CHEMISTRY, FACULTY OF TECHNICAL
AND NUCLEAR PHYSICS, PRAHA,
BREHOVA, CZECHOSLOVAKIA.
- 1589 Harris, W. F.
**An investigation of fast neutron
activation analysis for
determination of oxygen in
metals.**
Talanta, **11**, 1376-1380 (1964).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.
- 1590 Kinsey, R. J., Danforth, J. P.,
Green, F. L., Kerwick, W., Kohn,
R. E.
**The analysis of silicon in cast
iron by fast neutron activation.**
Trans. Am. Nucl. Soc., **5**, 200-201
(1962).
(ENGLISH). GMC, DANVILLE.
- 1591 Kohn, R. E., Green, F. L.
**The determination of silicon in
aluminum alloy by fast neutron
activation analysis.**
Trans. Am. Nucl. Soc., **5**, 201
(1962).
(ENGLISH). GENERAL MOTORS
RESEARCH LABORATORIES, WARREN,
MICHIGAN.
- 1592 Grosse-Ruyken, H., Doge, H. G.
**Estimation of molybdenum in
tungsten by activation analysis.**
Talanta, **12**, 73-80 (1965).
(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). INSTITUT FUR
ANORGANISCHE UND ANORGANISCH-TECH
NISCHE CHEMIE DER TECHNISCHE
UNIVERSITAT, DRESDEN.
- 1593 Ricci, E.
**Output spectra of 14 MeV neutron
generators: Rapid estimation and
influence in activation analysis.**
Trans. Am. Nucl. Soc., **7**, 203-204
(1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1595 Orvini, E.
**Determination by instrumental
activation analysis of traces of
chlorine in organic substances
with nuclear application.**
Energ. Nucl. (Milan), **14**, 249-251
(April 1967).
(FRENCH). LABORATORIO DI
RADIOCHIMICA, ISTITUTO DI CHIMICA
GENERALE, UNIVERSITA DI PAVIA,
ITALY.
- 1596 Desai, H. B., Krishnamoorthy Iyer,
R., Sankar Das, M.
**Determination of scandium,
yttrium, samarium and lanthanum
in standard silicate rocks. G-1
and W-1, by neutron-activation
analysis.**
Talanta, **11**, 1249-1255 (1964).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). ANALYTICAL DIVISION.
ATOMIC ENERGY ESTABLISHMENT.
TROMBAY, BOMBAY, INDIA.
- 1597 Wechter, M. A.
Activation analysis of some

ACTIVATION ANALYSIS – BIBLIOGRAPHY

tungsten bronzes.

IS-T-156, 79p. (May 1967).

(ENGLISH). AMES LABORATORY, IOWA
STATE UNIVERSITY, AMES, IOWA.

1598 Girardi, F., Pauly, J., Sabbioni,
E.

The determination of oxygen in organic compounds and metals by activation with 14 MeV neutrons.

EUR 2290.f, 36p. (1965).

(FRENCH) (ENGLISH SUMMARY). JOINT
NUCLEAR RESEARCH CENTER, ISPRA
ESTABLISHMENT, ITALY.

1599 Mahony, J. D., Parsa, B.,
Markowitz, S. S.

Activation analysis for carbon and nitrogen by ^3He induced nuclear reactions.

UCRL-11213, 87-90 (February 1964).

(ENGLISH). LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.

1600 Robin, G., Vidal, J. P.

The industrial development of analysis by activation.

Energie Nucl., **6**, 365-370 (1964).

(FRENCH). SOCIETE L'ATOME
INDUSTRIEL, FRANCE.

1601 Nagy, L. G., Szokolyi, L.

Investigations of some motor oil additives by neutron activation.

Periodica Polytech., **8**, 41-62
(1964).

(ENGLISH). DEPARTMENT OF PHYSICAL
CHEMISTRY, POLYTECHNICAL
UNIVERSITY, BUDAPEST, HUNGARY.

1602 Pasztor, E., Klopfer, E.

Portable neutron generator for activation analysis.

*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 143-149
(1964).

(HUNGARIAN). HUNGARY.

1603 Rohnsch, W.

Determination of impurities in selenium by activation analysis.

Kernenergie, **7**, 543-545 (1964).

(GERMAN). INSTITUT FÜR

ANGEWANDTE RADIOAKTIVITÄT,
LEIPZIG.

1604 Holm, D. M., Sanders, W. M.,
Briscoe, W. L., Parker, J. L.

Measurement of the surface distribution of carbon and oxygen by ^3He activation and autoradiography.

LA-DC-8784, 15p. (1966).

(ENGLISH). UNIVERSITY OF
CALIFORNIA, LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW
MEXICO.

1605 Gordon, C. L.

Nucleonics.

Anal. Chem., **21**, 96-101 (1949).

(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

1606 Gordon, C. M., Larson, R. E.

Activation analysis of aerosols.

NP-14096, 17-22 (January 1, 1964).

(ENGLISH). NUCLEONICS DIVISION.
NAVAL RESEARCH LABORATORY,
WASHINGTON, D.C.

1607 Ondrejcin, R. S.

Determination of uranium isotopes in irradiated thorium.

DP-883, 16p. (June 1964).

(ENGLISH). E.I. DUPONT DE NEMOURS
AND CO., AIKEN, SOUTH CAROLINA.

1608 Ordogh, M., Szabo, E.

Activation analysis.

Magy. Kem. Lapja, **20**, No. 3,
153-163 (1965).

(HUNGARIAN) (ENGLISH SUMMARY).
KOZPONTI FIZIKAI KUTATO INTEZET.

1609 Eichelberger, J. F., Grove, G. R.,
Jones, L. V.

Beryllium analysis by gamma activation.

MLM-1160, 30 (June 28, 1963).

(ENGLISH). MOUND LABORATORY,
MIAMISBURG, OHIO.

1610 Vobecky, M., Knotek, O.

The determination of gold in quartz via activation analysis.

Chem. Listy, **58**, 15-17 (1964).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(CZECHOSLOVAKIAN) (RUSSIAN AND
GERMAN SUMMARIES). USTAV
JADERNEHO VYZKUMU CSAV, REZ.

graded purity silicon.
*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 365–376
(1964).

(HUNGARIAN). HUNGARY.

- 1611 Greenwood, R. C., Reed, J. H.,
Stone, C. A.
**Iron ore analysis utilizing
neutron capture gamma-rays.**
Trans. Am. Nucl. Soc., **4**, 127
(1961).

(ENGLISH). ARMOUR RESEARCH
FOUNDATION, CHICAGO, ILLINOIS.

- 1617 Kelen, E., Ordogh, M.
**Non-destructive analysis of
diphenyl and diphenyl methane by
neutron activation.**
*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 377–384
(1964).

(HUNGARIAN). HUNGARY.

- 1612 Hecker, R., Herr, W.
**The quantitative detection of
radionuclides, gamma-quanta in
radiated cascade with the help of
a simple gamma-gamma coincidence
circuit (the non-destructive
activation analysis of trace
hafnium in zirconium).**

Nukleonik, **4**, 19–23 (1962).

(GERMAN). KERNFORSCHUNGSANLAGE
JULICH, ARBEITSGRUPPE, INSTITUT
FUR RADIOCHEMIE.

- 1618 Clark, L., Rasmussen, N. C.
**Prompt activation analysis for
boron and lithium.**
AFCRL-63-575, 92p. (October 1963).

(ENGLISH). MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.

- 1613 Csajka, M., Ordogh, M.
Analysis of graded purity nickel.
*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 335–344
(1964).

(HUNGARIAN). HUNGARY.

- 1619 Societe Anonyme de Machines
Electrostatiques
**Activation analysis assembly.
Provisional technical
specifications**
RT/2557, 6p. (1964).

(FRENCH). FRANCE.

- 1614 Ordogh, M., Hegedues, D., Szabo,
E.
**Neutron activation analysis of
reactor-grade uranium compounds.**
*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 345–353
(1964).

(HUNGARIAN). HUNGARY.

- 1620 Yule, H. P., Lukens, H. R., Guinn,
V. P.
**Utilization of reactor fast
neutrons for activation analysis.
Annual report for the period
ending November 30, 1963.**
GA-5073, 95p. (March 25, 1964).

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.

- 1615 Szabo, E., Elek, A., Ordogh, M.,
Upor, E.
**Determination of trace elements in
rocks by neutron activation
analysis.**
*Magy. Tud. Akad. Kozp. Fiz. Kut.
Int. Kozlemen.*, **12**, 355–364
(1964).

(HUNGARIAN). HUNGARY.

- 1621 Jamin-Changeart, F.,
Talbot-Besnard, S.
**Solubility of sulfur in highly
purified iron.**
Compt. Rend., **258**, 907–909 (1964).

(FRENCH). CENTRE NATIONAL DE LA
RECHERCHE SCIENTIFIQUE, PARIS,
FRANCE.

- 1616 Upor-Juvancz, V., Ordogh, M.
Neutron activation analysis of

- 1622 Societe Anonyme de Machines
Electrostatiques
Analysis by activation. Example of

ACTIVATION ANALYSIS—BIBLIOGRAPHY

spectra stripping.

RT/2568, 9p. (1964).

(FRENCH). FRANCE.

1623 Gorski, L.

The feasibility of the fast neutron activation analysis to the copper content determination in copper ores.

Nukleonika, 8, 421-424 (1963).

(ENGLISH). INSTITUTE OF RADIOISOTOPES TECHNIQUES, ACADEMY OF MINING AND METALLURGY, KRAKOW.

1624 Okada, M.

Revised curve for self-shielding effect in neutron activation.

Intern. J. Appl. Radiation Isotopes, 14, 635 (1963).

(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO HON-MACHI, SHIBUYA, TOKYO, JAPAN.

1625 Wainerdi, R. E.

Activation analysis finds its place in the life sciences.

Nucleonics, 22, No. 2, 57-60 (1964).

(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

1626 Canadian Chemical Processing

Easier analysis with neutron activation.

Can. Chem. Process., 46, 74-75 (1962).

(ENGLISH). CANADA.

1627 Johnson, R. A.

Geometry-related errors in instrumental neutron-activation analysis.

Talanta, 11, 149-158 (1964).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). SHELL DEVELOPMENT CO., EMERYVILLE, CALIF.

1628 Rohnsch, W.

Problems of the determination of arsenic and selenium by activation analysis.

Mikrochim. Ichnoanal. Acta,

1164-1174 (1964).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR ANGEWANDTE RADIOAKTIVITAT IN LEIPZIG DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, GERMANY.

1629 Sayre, E. V.

Methods and applications of activation analysis.

Ann. Rev. Nucl. Sci., 13, 145-162 (1963).

(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.

1630 Kauranen, P., Meinke, W. W.

A survey of photoneutron sources.

Radiochim. Acta, 2, 96-99 (1963).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

1631 Kamemoto, Y., Yamagishi, S.

Re-activation analysis of vanadium.

Talanta, 11, 27-32 (1964).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DIVISION OF CHEMISTRY, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI, IBARAKI, JAPAN.

1632 Grossmann, O., Doge, H. G.

Iron determination in pure aluminum by activation analysis.

Kernenergie, 7, 113-116 (1964).

(GERMAN). INSTITUT FUR ANGEWANDTE PHYSIK DER REINSTSTOFFE DER DADW ZU BERLIN, DRESDEN, GERMANY.

1633 Koch, H., Grossmann, K. D.

Bromine determination in zinc sulphate by activation analysis.

Kernenergie, 6, 651-653 (1963).

(GERMAN). INSTITUT FUR ANGEWANDTE RADIOAKTIVITAT, LEIPZIG.

1634 Schmitt, R. A., Smith, R. H.,

Olehy, D. A.

Cadmium abundances in meteoritic

ACTIVATION ANALYSIS—ACCESSION NUMBERS

and terrestrial matter.

Geochim. Cosmochim. Acta, **27**,
1077–1088 (1963).

(ENGLISH). GENERAL ATOMIC
DIVISION OF GENERAL DYNAMICS
CORP., JOHN JAY HOPKINS
LABORATORY FOR PURE AND APPLIED
SCIENCE, SAN DIEGO, CALIF.

1640 Vernin, E., Perdijon, J.

**Optimum operating conditions for
the neutron generator. Annual
report, April 1965–April 1966.**
EUR-3210.F., Vol. 2, 88p. (June
1967).

(FRENCH). SOCIETE ANONYME DE
MACHINES ELECTROSTATIQUES,
GRENOBLE, FRANCE.

1635 Bate, L. C., Emery, J. F.,

Leddicotte, G. W., Lyon, W. S.,
Pro, M. J.

**Application of activation analysis
to forensic science—I. Physical
evidence.**

*Intern. J. Appl. Radiation
Isotopes*, **14**, 549–556 (1963).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE,
TENN.

1641 Hogdahl, O. T.

**Neutron absorption in pile neutron
activation analysis.
Determination of copper and gold
in silver.**

Radiochemical Methods of Analysis,
Vol. I, 23–40, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). CENTRAL
INSTITUTE FOR INDUSTRIAL
RESEARCH, OSLO, BLINDERN, NORWAY.

1636 Otwinowski, W., Allina, Z.

**Determination of microtrace
amounts of manganese in nitric
and hydrochloric acids by neutron
activation analysis.**

Nukleonika, **8**, 411–419 (1963).

(POLISH) (RUSSIAN AND ENGLISH
SUMMARIES). INSTYTUT CHEMII
OLOGNCJ, WARSZAWA, POLAND.

1642 Strain, J. E., Lyon, W. S.

**The use of isotopic neutron
sources for chemical analysis.**

Radiochemical Methods of Analysis,
Vol. I, 245–261, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). ANALYTICAL
CHEMISTRY DIVISION. OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE,
TENNESSEE.

1637 Eichelberger, J. F., Grove, G. R.,

Jones, L. V., Rembold, E. A.

**Beryllium analysis by gamma
activation.**

MLM-1155, 41–43 (1963).

(ENGLISH). MOUND LABORATORY,
MIAMISBURG, OHIO.

1643 Lyon, W. S., Eldridge, J. S.,

Crowther, P.

**Experimental study of artifacts
and errors encountered in
gamma-ray spectrometry for
radiochemistry and activation
analysis.**

Radiochemical Methods of Analysis,
Vol. II, 33–46, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). ANALYTICAL
CHEMISTRY DIVISION, OAK RIDGE
NATIONAL LABORATORY, OAK RIDGE,
TENNESSEE.

1638 Strain, J. E., Leddicotte, G. W.

Neutron activation analysis.

ORNL-3335, 40–41 (September 1962).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

1639 Reddy, G. R., Sankar Das, M.

**The use of reactor fast neutrons
in the analysis of fluorine.**

BARC-280, 10p. (1967).

(ENGLISH). BHABHA ATOMIC
RESEARCH CENTRE, BOMBAY, INDIA.

1644 Maxia, V., Meloni, S., Rollier, M.
A., Valentini, M. T.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Cobalt activation detection in the centigammas range, in the presence of milligram amounts of iron, for biological assay.**
Radiochemical Methods of Analysis, Vol. II, 25–32, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). LABORATORIO DI RADIOCHIMICA DELL ISTITUTO DI CHIMICA GENERALE, UNIVERSITY OF PAVIA, ITALY.
- 1645 Moav, B., Gitter, S., Welwart, Y., Amiel, S.
Tracing and trace element composition of snake venom by activation analysis.
Radiochemical Methods of Analysis, Vol. I, 205–216, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). NUCLEAR CHEMISTRY DEPARTMENT, SOREQ RESEARCH ESTABLISHMENT, ATOMIC ENERGY COMMISSION, YAVNE, ISRAEL.
- 1646 Berzin, A. K., Vitozhents, G. C., Sulin, V. V., Shornikov, S. I.
Gamma-activation analysis of rock samples.
Radiochemical Methods of Analysis, Vol. I, 361–389, Vienna, International Atomic Energy Agency (1965).
(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.
- 1647 Maslov, I. A.
Planning of activation analysis in high neutron flux.
Radiochemical Methods of Analysis, Vol. I, 41–50, Vienna, International Atomic Energy Agency (1965).
(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.
- 1648 Yakovlev, Y. V., Dogadkin, N. N.
Use of radioactivation to determine impurities in substances of a high degree of purity.
Radiochemical Methods of Analysis, Vol. I, 187–195, Vienna, International Atomic Energy Agency (1965).
(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.
- 1649 Yule, H. P., Guinn, V. P.
Enhancement of neutron activation analysis sensitivities by use of reactor pulses: Experimental results for 13 elements.
Radiochemical Methods of Analysis, Vol. II, 111–122, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORPORATION, JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE, SAN DIEGO, CALIF.
- 1650 Lima, F. W., Shibata, H., Atalla, L. T.
Activation analysis applied to forensic investigation: Some observations on the problem of human hair individualization.
Radiochemical Methods of Analysis, Vol. I, 119–136, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). INSTITUTO DE ENERGIA ATOMICA, S. PAULO, BRAZIL.
- 1651 Christell, R., Ljunggren, K.
Analysis of ore samples using gamma-rays emitted under irradiation with a low-level neutron source.
Radiochemical Methods of Analysis, Vol. I, 263–275, Vienna, International Atomic Energy Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). ISOTOPE TECHNIQUES LABORATORY, STOCKHOLM, SWEDEN.
- 1652 Abrao, A.
Analysis by activation. Part III.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Simultaneous determination of copper and uranium in minerals by radioactivation.

IEA/RQ-8, 15p. (April 1959).

(SPANISH). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.

1653 Buzzelli, G.

Determination of long-lived iodine-129 in irradiated graphite fuel systems.

Anal. Chem., **36**, 1973-1975 (1964).

(ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.

1654 Nakai, T., Yajima, S., Okada, M., Shiba, K.

Activation analysis of selenium by Se-77m.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 100-101 (1959).

(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE AND GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, JAPAN.

1655 Gleit, C. E., Benson, P. A.,

Holland, W. D., Russell, I. J.

Determination of silver, cadmium, indium, tantalum, rhenium, gold, and rare earths at low concentration by neutron activation and radiochemical analysis.

Anal. Chem., **36**, 2067-2072 (1964).

(ENGLISH). TRACERLAB, A DIVISION OF LABORATORY FOR ELECTRONICS, RICHMOND, CALIF.

1656 Kusaka, Y., Tsuji, H., Fujii, I., Muto, H., Miyoshi, K.

Gamma-ray spectrometry in radioactivation analysis with 14 MeV neutrons.

Bull. Chem. Soc. Japan, **38**, 617-624 (1965).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, HIGASHINADA-KU, KOBE, JAPAN.

1657 Meinke, W. W.

Book review - "Activation Analysis Handbook". R. C. Koch, Academic Press, Inc., New York, 219p., 1960.

Anal. Chem., **33**, 78a (1961).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.

1658 Merrett, D. J.

Experimental techniques for in-pile irradiation experiments

AERE-L 153, 26p. (September 1964).

(ENGLISH). RESEARCH REACTORS DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.

1659 Raisic, N.

Reactor physics experimental techniques used in exploitation of a research reactor.

IAEA Study Group Meeting on Research Reactor Utilization, Bucharest, 26-31 October 1964, PL-137/20, 44p. (1964).

(ENGLISH). BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES, BELGRADE, YUGOSLAVIA.

1660 Rakovic, M., Talpova, H., Langerova, I.

Potassium estimations in biological material by the method of neutron activation analysis.

Casopis Lekarku Ceskych, **104**, 297-303 (1965).

(CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH, FRENCH AND SPANISH SUMMARIES). KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KU V PRAZE.

1661 Merrett, D. J.

Safety aspects of irradiation experiments.

AERE-L 154, 15p. (1964).

(ENGLISH). RESEARCH REACTORS DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.

1662 Rakovic, M., Talpova, H.

The possibility of correcting the disturbing influences of accompanying elements on the

ACTIVATION ANALYSIS—BIBLIOGRAPHY

determination of a particular element in activation analysis.

Atompraxis, **11**, 151–153 (1965).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FÜR BIOPHYSIK DER KARLS-UNIVERSITÄT PRAG.

1663 Bochirol, L.

Neutron irradiations at low temperature at the Grenoble Nuclear Study Center.

IAEA Study Group Meeting on Research Reactor Utilization, Bucharest, 26–31 October 1964, CEA PL-137/21, 27p. (1964).

(FRENCH). COMMISSARIAT À L'ÉNERGIE ATOMIQUE, CENTRE D'ÉTUDES NUCLEAIRES DE GRENOBLE, FRANCE.

1664 Rakovic, M., Talpova, H.

Sodium estimation in filtration paper by means of the neutron activation analysis method.

Chem. Prumysl, **14**, No. 3, 152 (1964).

(CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). CHARLES UNIVERSITY, PRAGUE.

1665 Guinn, V. P.

The determination of traces of Se, V, Sr, and As in biological samples by neutron-activation analysis (with special reference to the instrumental detection of 17-second ^{77m}Se).

L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 69–82, Presses Universitaires de France, Paris, France (1964).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.

1666 Schulze, W.

Fast neutrons in activation analysis.

L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 85–118, Presses Universitaires de France, Paris,

France (1964).

(ENGLISH). BERLIN, GERMANY.

1667 Laverlochere, J.

Radioactivation analysis by means of 14 MeV neutrons.

L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 123–130, Presses Universitaires de France, Paris, France (1964).

(FRENCH). C.E.N. GRENOBLE, FRANCE.

1668 Marmier, P.

Analysis by nuclear reaction.

L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 131–143, Presses Universitaires de France, Paris, France (1964).

(FRENCH). EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE, ZÜRICH.

1669 Lenihan, J. M. A.

Trace elements in human disease.

L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 251–265, Presses Universitaires de France, Paris, France (1964).

(ENGLISH). GLASGOW, SCOTLAND.

1670 Hull, D. E., Gilmore, J. T.

Computer routines for neutron activation analysis of lubricating oils.

Anal. Chem., **36**, 2072–2077 (1964).

(ENGLISH). CALIFORNIA RESEARCH CORP., RICHMOND, CALIF.

1671 Aoki, F., Okubo, T.

Activation analysis of indium in sphalerite.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8–10, 1959, 101–103 (1959).

(ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, JAPAN.

1672 Nakai, T., Yajima, S., Kurosawa, R.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

The activation analysis of the impurities in bismuth metal.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 104-106, (1959).

(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE AND WASEDA SCIENCE AND ENGINEERING RESEARCH, JAPAN.

LABORATORY, D.S.I.R., STEVENAGE, HERTS, ENGLAND.

1673 Yule, H. P.

Experimental reactor thermal-neutron activation analysis sensitivities.

Anal. Chem., **37**, 129-132 (1965).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.

1678 Filby, R. H.

Determination of the zinc-68-zinc-64 ratio in rocks and minerals by neutron activation analysis.

Anal. Chem., **36**, 1597-1600 (1964).

(ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.

1674 Leddicotte, G. W.

Nucleonics.

Anal. Chem., **36**, 419R-453R (1964).

(ENGLISH). NUCLEAR DIVISION, UNION CARBIDE CO., TUXEDO, N.Y.

1679 Nakai, T., Yajima, S., Okada, M., Imai, T.

Activation analysis of impurities in germanium and other metals of high purity.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 107-108 (1959).

(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.

1675 Leonhardt, W., Bailey, R. F.

Determination of oxygen in gallium arsenide by neutron activation analysis. An exchange of comments.

Anal. Chem., **36**, 1879 (1964).

(ENGLISH). DEUTSCHE AKADEMIE DER WISSENSCHAFTEN ZU BERLIN ZENTRALINSTITUT FUR KERNFORSCHUNG, ROSSENDORF, AND RADIO CORPORATION OF AMERICA, PRINCETON, N.J.

1680 Tittman, J., Nelligan, W. B., Antkiw, S., Johnson, F. F.

Nuclear determination of nitrogen content.

U.S. Patent 3,124,679. March 10, 1964.

(ENGLISH). SCHLUMBERGER WELL SURVEYING CORP., HOUSTON, TEXAS.

1676 Girardi, F., Guzzi, G., Pauly, J.

Activation analysis by absolute gamma ray counting and direct calculation of weights from nuclear constants.

Anal. Chem., **36**, 1588-1594 (1964).

(ENGLISH). CENTRO COMUNE DI RICERCH E EURATOM, ISPRA (VARESE), ITALY.

1681 Fujii, I., Natusme, H.

Activation analysis of individual rare earth element in thorium as nuclear fuel.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 109-110 (1959).

(ENGLISH). TOKYO SHIBAURA ELECTRIC CO., TOKYO, JAPAN.

1677 Bakes, J. M., Jeffery, P. G.

Determination of zinc in ores and mill products by neutron activation analysis.

Anal. Chem., **36**, 1594-1597 (1964).

(ENGLISH). WARREN SPRING

1682 Nakai, T., Yajima, S., Kamemoto, Y., Shiba, K.

Determination of rare earth elements in thorium metal and oxide by neutron activation.

Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 110-112 (1959).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, JAPAN.
- 1683 Hall, H. E.
Productivity well logging by activation analysis and fluid withdrawal.
 U.S. Patent 3,127,511. March 31, 1964.
 (ENGLISH). TEXACO INC., HOUSTON, TEXAS.
- 1684 Fryer, G. E.
Method and apparatus for calibration of well logging apparatus.
 U.S. Patent 3,122,636. February 25, 1964.
 (ENGLISH). GREAT LAKES CARBON CORP., HOUSTON, TEXAS.
- 1685 Swift, G.
Geophysical prospecting method by means of nuclear radiation.
 U.S. Patent 3,121,164. February 11, 1964.
 (ENGLISH). WELL SURVEYS, INC., TULSA, OKLA.
- 1686 Youmans, A. H.
Oxygen-silicon logging method utilizing equal intensity but different energy neutrons.
 U.S. Patent 3,120,612. February 4, 1964.
 (ENGLISH). WELL SURVEYS INC., TULSA, OKLA.
- 1687 Hsu, K.
Neutron activation analysis.
Advan. Biol. Med. Phys., **8**, 41-80 (1962).
 (ENGLISH). DONNER LABORATORY OF BIOPHYSICS AND MEDICAL PHYSICS, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 1688 Turekian, K. K.
Annual progress report, December 1, 1963–November 30, 1964. Geochemistry technical report 10.
 TID-21137, 30p. (August 31, 1964).
 (ENGLISH). DEPARTMENT OF GEOLOGY, YALE UNIVERSITY, NEW HAVEN, CONN.
- 1689 Baumgartner, F.
Neutron activation analysis measurement techniques.
Telefunken Ztg., **35**, 3-6 (1962).
 (GERMAN). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE, MÜNCHEN.
- 1690 Tertoolen, J. F. W.
Application of activation methods in chemical analysis.
Chem. Weekblad, **59**, 245-247 (1963).
 (DUTCH). ANALYTISCH INSTITUUT T.N.O., RIJSWIJK (ZH).
- 1691 Anders, O. U.
Gamma ray spectra of neutron activated elements.
 The Dow Chemical Co. Report, Third Printing, 70p. (April 1964).
 (ENGLISH). RADIOCHEMISTRY LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 1692 Kaiser, D. G., Meinke, W. W.
Rapid activation analysis of trace copper in tissue using 5.1-minute copper-66.
Anal. Biochem., **6**, 77-81 (1963).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 1693 Hamaguchi, H., Kamemoto, Y., Ideno, E., Endo, T., Yasunaga, T.
Determination of trace elements in silicate rocks and stony meteorites by neutron activation.
Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 113-114 (1959).
 (ENGLISH). TOKYO UNIVERSITY OF EDUCATION, TOKYO, JAPAN.
- 1694 Umezawa, H., Nomura, S., Hara, R.
The solubility determination of tributyl phosphates in water by activation analysis.
Symposium on Radiochemistry, Shizuoka University, Shizuoka, Japan, October 8-10, 1959, 115-116 (1959).
 (ENGLISH). CHEMISTRY DIVISION,

ACTIVATION ANALYSIS – ACCESSION NUMBERS

JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, JAPAN.

- 1695 Istvan, P., Lajos, V.
**Irradiation facilities in the
WWR-C2 type reactor at Budapest.**
*IAEA Study Group Meeting on
Research Reactor Utilization,
Bucharest, 26-31 October 1964,*
PL-137/5, 31p. (1964).
(FRENCH). BUDAPEST, HUNGARY.
- 1696 Raisic, N., Draganic, I., Radak,
B.
**A review of in-pile dosimetry
techniques used in Ra and Rb
research reactor at Vinca.**
*IAEA Study Group Meeting on
Research Reactor Utilization,
Bucharest, 26-31 October 1964,*
PL-137/25, 14p. (1964).
(ENGLISH). BORIS KIDRIC INSTITUTE
OF NUCLEAR SCIENCES, VINCA,
YUGOSLAVIA.
- 1697 Matsumura, Y., Fujino, R.
**Studies on strontium metabolism of
rat bones by radioactivation
analysis.**
*Proceedings Japan Conference
Radioisotopes, 4th, 794-797*
(1961).
(JAPANESE). TOKYO WOMENS MEDICAL
COLLEGE, TOKYO, JAPAN.
- 1698 Nass, H. W., Maddock, R. S.,
Meinke, W. W.
Neutrons for small laboratories.
J. Chem. Educ., 41, 156-159
(1964).
(ENGLISH). UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICH.
- 1699 Fournet, L.
**Systematic analysis of zirconium
after neutron irradiation.**
Ann. Chim., 7, 763-784 (1962).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE,
VITRY-SUR-SEINE, FRANCE.
- 1700 Kobayashi, M., Mihara, T.
**Study on the metallic impurities
in pure aluminum by means of
activation method.**
*Proceedings Japan Conference
Radioisotopes, 4th, 554-557*
(1961).
(JAPANESE). TOKYO METROPOLITAN
ISOTOPE CENTER, TOKYO, JAPAN.
- 1701 Wood, J. D. L. H., Lomer, P. D.,
Bounden, J. E.
**High output neutron tube for
activation analysis.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques, 119-122, Presses
Universitaires de France, Paris,
France (1964).*
(ENGLISH). BALDOCK, ENGLAND.
- 1702 Wainerdi, R. E., Fite, L. E.,
Steele, E. L.
**The use of high-speed
computer-coupled automatic
systems for non-destructive
medical and biologic nuclear
activation analysis.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques, 171-198, Presses
Universitaires de France, Paris,
France (1964).*
(ENGLISH). TEXAS AGRICULTURAL AND
MECHANICAL COLLEGE, COLLEGE
STATION, TEXAS.
- 1703 Altmann, H., Stehlik, G., Kaindl,
K.
**The use of neutron activation
analysis on the determination of
trace elements in tobacco mosaic
virus and nucleic acids of
tobacco plants.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques, 243-250, Presses
Universitaires de France, Paris,
France (1964).*
(ENGLISH). SEIBERSDORF.
- 1704 Fleckenstein, A., Janke, J.
**Biological application of
activation analysis of oxygen-18.**
*L'Analyse par Radioactivation et
ses Applications aux Sciences
Biologiques, 267-285, Presses
Universitaires de France, Paris,*

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- France (1964).
(FRENCH). FRIBOURG, FRANCE.
- 1705 Cotzias, G. C., Papavasiliou, P. S., Miller, S. T.
Neutron activation analysis: Clinical and biological studies of manganese.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 287-306, Presses Universitaires de France, Paris, France (1964).
(ENGLISH). UPTON, N.Y.
- 1706 Junod, E., Laverlochere, J.
Isotopic analysis of calcium 48 by neutron activation.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 337-360, Presses Universitaires de France, Paris, France (1964).
(FRENCH). C.E.N. GRENOBLE, FRANCE.
- 1707 Pijck, J., Hoste, J.
The determination of Cu, Cr, Zn, Co, Na and K in blood serum.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 361-378, Presses Universitaires de France, Paris, France (1964).
(FRENCH). UNIVERSITY OF GHENT.
- 1708 Bethard, W. F., Olehy, D. A., Schmitt, R. A.
The use of neutron activation analysis for the quantitation of selected cations in human blood.
L'Analyse par Radioactivation et ses Applications aux Sciences Biologiques, 379-393, Presses Universitaires de France, Paris, France (1964).
(ENGLISH). SAN DIEGO, CALIF.
- 1709 Emery, J. F., Mullins, W. T., Bate, L. C., Leddicotte, G. W.
Trace element determination in niobium and zirconium metal by radioactivation analysis.
TID-7629, 239-242 (October 1961).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 1710 Ross, W. J.
Comprehensive scheme for neutron-activation analysis.
ORNL-3397, 95, 97-99 (1963).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1711 Ross, W. J.
Determination of sulfur by neutron-activation analysis.
ORNL-3397, 100 (1963).
(ENGLISH) OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1712 Fite, L. E., Steele, E. L., Wainerdi, R. E., Ibert, E., Wilkins, W. W.
An investigation of computer coupled automatic activation analysis and remote lunar analysis. Chapter II. Chemistry applications.
TID-18257, 17-32 (February 1, 1963).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS ENGINEERING EXPERIMENT STATION, TEXAS A AND M, COLLEGE STATION, TEXAS.
- 1713 Bate, L. C.
Determination of oxygen in molten-fluoride salts by neutron-activation analysis.
ORNL-3397, 101-102 (1963).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1715 Emery, J. F.
Identification and comparison of documents for law-enforcement purposes.
ORNL-3397, 107 (1963).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1716 Dyer, F. F.
Flux measurements. Measurement of thermal and resonance neutron flux by use of two bare monitors.
ORNL-3397, 108-109 (1963).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

1717 Dyer, F. F.

**Flux measurements. Quantitative
analysis of radionuclides in
neutron-irradiated stainless
steel.**

ORNL-3397, 109-110 (1963).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

1718 Ehmann, W. D.

**Radiochemistry as applied to
geochemical problems; neutron
activation analysis.**

TID-4005 (Pt. 2a), G-12 (1963).

(ENGLISH). UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

1719 Fisher, D. E.

**Neutron activation analysis
studies of iron meteorites.**

TID-4005 (Pt. 2a), G-9 (1963).

(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y.

1720 Sue, P., Albert, P.

**Microdetermination of sulphur by
the nuclear reaction $^{32}\text{S}(\text{d},\alpha)$
 ^{30}P .**

Compt. Rend., **242**, 2461-2462
(1956).

(FRENCH). FRANCE.

1721 Fite, L. E., Steele, E. L.,

Wainerdi, R. E., Ibert, E.,
Wilkins, W. W.

**An investigation of computer
coupled automatic activation
analysis and remote lunar
analysis. Chapter III. A
feasibility study of remote lunar
analysis.**

TID-18257, 33-60 (February 1,
1963).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS
ENGINEERING EXPERIMENT STATION,
TEXAS A AND M, COLLEGE STATION,
TEXAS.

1722 Smith, G. W., Mongan, D. M.

The determination of thorium in

**cerium matrices by neutron
irradiation: Use of the Argonne
pneumatic facility.**

*Intern. J. Appl. Radiation
Isotopes*, **16**, 81-89 (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). ARGONNE
NATIONAL LABORATORY, ARGONNE,
ILLINOIS.

1723 Ishihara, M., Mukai, K.

**Investigation of small amounts of
impurities and non-metallic
inclusions in aluminium during
its production.**

94th Annual Meeting of the
American Institute of Mining,
Metallurgical and Petroleum
Engineers, Chicago, Illinois,
Preprint, 14p. (1965).

(ENGLISH). NIPPON LIGHT METAL
RESEARCH LABORATORY, LTD., JAPAN.

1724 Dow Chemical Company

Activation analysis.

*Modern Methods of Research and
Analysis*, 47-49, The Dow Chemical
Co. (1961).

(ENGLISH). THE DOW CHEMICAL CO.,
MIDLAND, MICHIGAN.

1725 Mullins, W. T., Bate, L. C.,

Emery, J. F., Dyer, F. F.,
Leddicotte, G. W., Grimanis, A.
P.

**Determination of stable trace
elements in radioactive
materials.**

ORNL-3397, 102-104 (1963).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.

1726 Corless, J. T., Winchester, J. W.

**Determination of the relative
isotopic abundance of ^{48}Ca in
natural materials by neutron
activation analysis.**

NYO-2668, 63-64 (1961).

(ENGLISH). MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.

1727 Mullins, W. T., Emery, J. F.,

Bate, L. C., Leddicotte, G. W.

Applications of neutron-activation

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- analysis in oceanography.**
 ORNL-3397, 105-106 (1963).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENN.
- 1728 Grimanis, A. P., Leddicotte, G. W.
**Determination of arsenic by
 neutron-activation analysis.**
 ORNL-3397, 104 (1963).
 (ENGLISH). NUCLEAR RESEARCH
 CENTER, GREEK ATOMIC ENERGY
 COMMISSION, ATHENS, GREECE.
- 1729 Girardi, F., Guzzi, G., Pauly, J.
**Reactor neutron activation
 analysis by the single comparator
 method.**
Anal. Chem., **37**, 1085-1092 (1965).
 (ENGLISH). SERVIZIO CHIMICA
 NUCLEARE, CENTRO COMUNE DI
 RICERCHE EURATOM, ISPRA, VARESE,
 ITALY.
- 1730 Born, H. J., Wilkniss, P. E.
**On the activation analysis of
 oxygen with the help of the
 reaction $^{16}\text{O} (t,n) ^{18}\text{F}$.**
*Intern. J. Appl. Radiation
 Isotopes*, **10**, 133-136 (1961).
 (GERMAN). INSTITUT FÜR
 RADIOCHEMIE, MUNCHEN, GERMANY.
- 1731 Gebauhr, W.
**Interferences in the case of
 activation analysis by means of
 neutron bombardment.**
Z. Anal. Chem., **185**, 339-356
 (1962).
 (GERMAN). FORSCHUNGLABORATORIUM
 DER SIEMENS-SCHÜCKERTWERKE AG,
 ERLANGEN, GERMANY.
- 1732 Baumgartner, F., Stark, H.,
 Schontag, A.
**Activation analytical
 determination of antimony in the
 nanogram range for determination
 of charge distance.**
Z. Anal. Chem., **197**, 424-430
 (1963).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FÜR RADIOCHEMIE DER
 TECHNISCHEN HOCHSCHULE MUNCHEN,
 GERMANY.
- 1733 Maddock, R. S., Meinke, W. W.
**Activation analysis, nuclear
 chemical research, radiochemical
 separations. Progress report No.
 11, November 1961-October 1962.**
 TID-17272, 129p. (November 1,
 1962).
 (ENGLISH). UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICH.
- 1734 Gomez, H., Baro, G. B.
**Neutron activation analysis of
 arsenic in human hairs and finger
 nails.**
 CONF-313-6, *Society for Applied
 Spectroscopy, 2nd National
 Meeting, San Diego, California,
 October 14-18, 1963*, 6p. (1963).
 (ENGLISH). ATOMIC ENERGY
 COMMISSION. ARGENTINA.
- 1735 Adams, F., De Soete, D., Hoste, J.
**Peirson and sum-coincidence
 spectrometry applied to
 activation analysis.**
 CONF-313-7, *Society for Applied
 Spectroscopy, 2nd National
 Meeting, San Diego, California,
 October 14-18, 1963*, 17p. (1963).
 (ENGLISH). LABORATORY FOR
 ANALYTICAL CHEMISTRY, GHENT
 UNIVERSITY, BELGIUM.
- 1736 Jervis, R. E.
**Instrumental activation analysis
 for identification of forensic
 specimens.**
 CONF-313-8, *Society for Applied
 Spectroscopy, 2nd National
 Meeting, San Diego, California,
 October 14-18, 1963*, 24p. (1963).
 (ENGLISH). DEPARTMENT OF CHEMICAL
 ENGINEERING AND APPLIED
 CHEMISTRY, UNIVERSITY OF TORONTO,
 TORONTO, CANADA.
- 1737 Perkons, A. K., Hummel, R. L.,
 Jervis, R. E.
**Computer analysis of complex
 gamma-ray spectra.**
 CONF-313-9, *Society for Applied
 Spectroscopy, 2nd National
 Meeting, San Diego, California,
 October 14-18, 1963*, 15p. (1963).
 (ENGLISH). UNIVERSITY OF
 TORONTO, TORONTO, CANADA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1738 Hull, D. E., Gilmore, J. T.
Practical computer routines for neutron activation analysis.
 CONF-313-10, *Society for Applied Spectroscopy, 2nd National Meeting, San Diego, California, October 14-18, 1963*, 35p. (1963).
 (ENGLISH). CALIFORNIA RESEARCH CORPORATION, RICHMOND, CALIF.
- 1739 Burns, F. C.
Fast neutron activation vs. vacuum fusion analysis for oxygen in metals.
 CONF-313-11, *Society for Applied Spectroscopy, 2nd National Meeting, San Diego, California, October 14-18, 1963*, 9p. (1963).
 (ENGLISH). USA.
- 1740 Burley, H. A.
Nuclear techniques for product improvement.
 CONF-464-1, *New York Society of Automotive Engineers, Detroit, 828A, March 30-April 3, 1964*, 8p. (1964).
 (ENGLISH). RESEARCH LABORATORIES, GENERAL MOTORS CORP.
- 1741 Dugain, F.
Determination of very small amounts of scandium and cobalt in S. R. grade beryllium by neutron activation and gamma spectroscopy.
 CONF-524-8, *American Institute of Mining, Metallurgical and Petroleum Engineers Annual Meeting, New York, February 16-20, 1964*, 16p. (1964).
 (ENGLISH). COMPAGNIE PECHINEY, GRENOBLE, FRANCE
- 1742 Saito, K., Nozaki, T., Tanaka, S., Furukawa, M., Cheng, H.
Radioactivation analysis of oxygen in high-purity silicon by irradiation with alpha-particles.
Intern. J. Appl. Radiation Isotopes, **14**, 357-363 (1963).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR STUDY, THE UNIVERSITY OF TOKYO, TANASHI, TOKYO, JAPAN.
- 1743 Pijck, J.
Radioactivation determination of metals in homeopathic preparations. Gold.
J. Pharm. Belg., **17**, 323-330 (1962).
 (FRENCH) (ENGLISH SUMMARY). UNIVERSITY OF GHENT.
- 1744 Pijck, J.
Radioactivation determination of metals in homeopathic preparations. Manganese.
J. Pharm. Belg., **17**, 210-217 (1962).
 (FRENCH) (ENGLISH SUMMARY). UNIVERSITY OF GHENT.
- 1745 Pijck, J.
Radioactivation determination of metals in homeopathic preparations. Zinc.
J. Pharm. Belg., **17**, 203-209 (1962).
 (FRENCH) (ENGLISH SUMMARY). UNIVERSITY OF GHENT.
- 1746 Tuckerman, M. M., Bate, L. C., Leddicotte, G. W.
Determination of trace elements in drugs by neutron activation analysis.
J. Pharm. Sci., **53**, 983-984 (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1747 Blomstrand, R., Nakayama, F.
Neutron activation paper chromatographic analysis of human cerebrospinal fluid.
J. Neurochem., **8**, 230-233 (1961).
 (ENGLISH) SWEDISH MEDICAL RESEARCH COUNCIL, UNIT FOR BIOCHEMICAL RESEARCH ON ATHEROSCLEROSIS, UNIVERSITY OF LUND, SWEDEN.
- 1748 Pijck, J., Ruttink, J., Claeys, A.
The determination of trace quantities of copper in biological material by radioactivation analysis.
J. Pharm. Belg., **16**, 207-216 (May-June 1961).
 (ENGLISH). UNIVERSITY OF GHENT.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1749 Pijck, J., Kim, J. I.
Radioactivation determination of trace elements in the Shinseng radix.
J. Pharm. Belg., **19**, 3–18 (1964).
 (FRENCH) (ENGLISH SUMMARY).
 UNIVERSITY OF GHENT.
- 1750 Smith, E. M., Mozley, J. M., Wagner, H. N.
Determination of protein-bound iodine (PBI) in human plasma by thermal neutron activation analysis.
J. Nucl. Med., **5**, 828–839 (1964).
 (ENGLISH). JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND.
- 1751 Rakovic, M., Talpova, H.
Determination of sodium in biological fluids by neutron activation analysis.
Chem. Zvesti, **18**, 750–755 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY, FAKULTA VSEOBECNEHO LEKARSTVI, KARLOVA UNIVERSITA, PRAHA.
- 1752 Rakovic, M., Talpova, H.
Nondestructive determination of phosphorus in different sorts of animal tissues by means of neutron activation analysis.
Chem. Zvesti, **18**, 669–675 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY, FAKULTA VSEOBECNEHO LEKARSTVI KARLOVY UNIVERSITY, PRAHA.
- 1753 Vernin, E., Perdijon, J.
Optimum operating conditions for the neutron generator. Final report.
 EUR-3210.f., Vol. 3, 34p. (June 1967).
 (FRENCH). SOCIÉTÉ ANONYME DE MACHINES ELECTROSTATIQUES, GRENOBLE, FRANCE.
- 1754 Tolgyessy, J., Popov, C. P., Stefanov, G., Tomov, T.
Non-destructive determination of
In in metallic alloys by neutron activation analysis using Po and Be neutron sources.
Chem. Zvesti, **18**, 48–55 (1964).
 (CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE SLOVENSKEJ VYSOKEJ SKOLY TECHNICEJ, BRATISLAVA.
- 1755 Girardi, F., Guzzi, G., Pauly, J.
Data handbook for sensitivity calculations in neutron activation analysis.
 EUR 1898.e., 19p., w/tables (1965).
 (ENGLISH). JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.
- 1756 Nuclear Applications Conference
A partial bibliography of literature on neutron activation analysis.
Nuclear Applications to the Wood, Paper and Pulp Industries Conference, 141–145 (1964).
 (ENGLISH). USA.
- 1757 Cassatt, W. A.
The applications of nuclear activation analysis.
Nuclear Applications to the Wood, Paper and Pulp Industries Conference, 7–19 (1964).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, PULLMAN, WASH.
- 1758 Hinoshita and Suji
Activation of indium with a radium-beryllium neutron source.
 CEA-TrX-506, 17p., 1963.
 (FRENCH TRANSLATION). JAPAN.
- 1759 Dugain, F., Laverlochere, J.
Determination of very small amounts of tantalum in niobium by using neutron activation and gamma spectroscopy.
 CONF-151-5, *19th International Union of Pure and Applied Chemistry Congress, London, June 1963*, 14p. (1963).
 (ENGLISH). COMPAGNIE PECHINEY, GRENOBLE, FRANCE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1760 Schmied, H., Bergamin, U.
Experience in the field of activation analysis.
Neue Tech., **5**, 732-744 (1963).
 (GERMAN) (FRENCH AND ENGLISH SUMMARIES). LABORATORIUM DER AG BROWN BOVERI AND CO., BADEN, GERMANY. (1963).
 (JAPANESE). JAPAN.
- 1761 Sterlinski, S., Malinowski, J.
Gamma-ray spectrometric determination of trace amount of cesium in sodium and potassium salts (on basis of the activity of ^{134}Cs , half life of 2.07 year).
Nukleonika, **7**, 693-702 (1962).
 (POLISH) (RUSSIAN AND ENGLISH SUMMARIES). INSTITUTE OF NUCLEAR RESEARCH, POLISH ACADEMY OF SCIENCES, WARSAW, POLAND.
- 1762 Tselishchev, S., Mogilevkin, V. B.
Application of neutron-activation analyses to determination of phosphorus microquantity in biochemical objects.
Izv. Timiryazev. sel Skokhoz. Akad., No. 4, 79-95 (1962).
 (RUSSIAN) (ENGLISH SUMMARY). RUSSIA.
- 1763 Alimarin, I. P., Perezhogin, G. A.
Determination of traces of gold by a radioactivation method using substoichiometric separation.
Zh. Anal. Khim., **20**, No. 1, 48-54 (1965).
 (RUSSIAN) (ENGLISH SUMMARY). V.I. VERNADSKY INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, USSR ACADEMY OF SCIENCES, MOSCOW, RUSSIA.
- 1764 Chepel, L. V., Shemarov, F. V.
The determination of fluorine and chlorine in polymers by a gamma activated method.
Dokl. Akad. Nauk SSSR, **158**, 682-684 (1964).
 (RUSSIAN). RUSSIA.
- 1765 Oka, Y., Kato, T., Sasaki, M.
Activation analysis of zirconium in zirconium-hafnium mixture.
Nippon Kagaku Zasshi, **84**, 588-592 (1963).
- 1766 Brune, D., Samsahl, K., Wester, P. O.
Determination of elements in milli-, micro- and submicrogram quantities in human whole blood by neutron activation analysis.
Atompraxis, **9**, 368-373 (1963).
 (ENGLISH). CHEMISTRY DEPARTMENT, AB ATOMENERGI. STOCKHOLM, SWEDEN.
- 1767 Frischauf, H., Altmann, H., Stehlik, G.
Investigations on the trace element content of leucocytes by means of neutron activation analysis.
Proceedings of the 9th Congress of the European Society of Haematology, Lisbon, Portugal, August 26-31, 1961, Volume I, 234-239, Basel, Verlag S. Karger, AG (1963).
 (ENGLISH). I. MEDIZ. UNIV. KLINIK, VIENNA, AUSTRIA.
- 1768 Steinnes, E.
Activation analysis. Methods and possibilities.
Tidsskr. Kjemi, Bergvesen Met., **25**, No. 11, 245-250 (1965).
 (NORWEGIAN) (ENGLISH SUMMARY). INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 1769 Kist, A. A., Zvyagina, L. S., Lobanov, E. M., Sviridova, A. I., Moskovtseva, G. A., Zvyagin, V. I.
Activation analysis of copper and manganese in biological objects.
Izv. Akad. Nauk Uz. SSR, Ser. Fiz. Mat. Nauk, **8**, 77-80 (1964).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES, UZBEK SSR, RUSSIA.
- 1770 Vodopivec, F.
The use of irradiation for quantitative tests of iron surface enrichment by arsenic.
Tehnika (Belgrade), **18**, 25-31 (1963).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(SERBO CROATIAN). METALLURGICAL
INSTITUTE, LJUBLJANA, YUGOSLAVIA.

1771 Stevancevic, D. B.

Radioactivation analysis.

Tehnika, **18**, 2197–2204 (1963).

(SERBO CROATIAN) (ENGLISH
SUMMARY). INSTITUTA ZA NUKLEARNE
NAUKE. BORIS KIDRIC, BEOGRAD,
VINCA.

1772 Texaco Development Corporation
**Improvements in or relating to
radioactive well logging.**

British Patent 948,310. January
29, 1964.

(ENGLISH). TEXACO DEVELOPMENT
CORPORATION, NEW YORK, N.Y.

1773 Taylor, D.

Nucleonics and industry.

Ind. Electron., **1**, No. 1, 18–21
(1962).

(ENGLISH). PLESSEY NUCLEONICS
LTD., NORTHAMPTON, ENGLAND.

1774 Nascutiu, T.

**Analysis of inorganic compounds by
radioactivation on chromatographic
paper. II. Thorium and rare
earths.**

Studii Cercetari Chim., **12**,
283–288 (1964).

(HUNGARIAN). INSTITUTE FOR
ATOMIC PHYSICS, BUCHAREST.

1775 Morrison, G. H.

**Extension of sensitivity in trace
element analysis.**

Analytical Chemistry, 320–327,
West, McDonald and West (1962).

(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y.

1776 Marmier, P.

**Methods of nuclear physics in
physiology.**

Arch. Ges. Physiol., **273**, 111–119
(1961).

(GERMAN). LABORATORIUM FÜR
KERNPHYSIK DER EIDGENÖSSISCHE
TECHNISCHEN HOCHSCHULE ZÜRICH.

1777 Friedlander, G., Kennedy, J. W.,
Miller, J. M.

**Tracers in chemical applications.
Analytical applications.**

Nuclear and Radiochemistry, Second
Edition, 208–209, John Wiley and
Sons, Inc., New York (1964).

(ENGLISH). BROOKHAVEN NATIONAL
LABORATORY, UPTON, N.Y.

1778 Engelmann, C.

**Use of particles other than
neutrons in activation analysis.**

CEA-R 2559, 89p. (1964).

(FRENCH) (ENGLISH SUMMARY).
CENTRE D'ETUDES NUCLEAIRES DE
SACLAY, FRANCE.

1779 Girardi, F., Guzzi, G., Ley, J.

**Use of radioisotopes having
complex formation and decay
schemes in activation analysis.**

EUR-467.f., 32p. (1963).

(FRENCH) (ENGLISH SUMMARY).
EUROPEAN ATOMIC ENERGY COMMUNITY,
NUCLEAR RESEARCH CENTER, ISPRA,
ITALY.

1780 Sato, R., Norris, W. P.

**Determination of Na and P in bone
by neutron activation analysis.**

ANL-4531, 153–155 (1950).

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

1781 Merlini, M.

**The use of radioactivation
analysis in biology.**

EUR.128.I, 27p. (1962).

(ITALIAN) (ENGLISH SUMMARY).
EUROPEAN ATOMIC ENERGY COMMUNITY,
NUCLEAR RESEARCH CENTER, ISPRA,
ITALY.

1782 Amiel, S., Juliano, J. O.

**Rapid and non-destructive analysis
of sulfur and calcium by
radioactivation and photoneutron
counting.**

IA-933, 24p. (May 1964).

(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, SOREQ RESEARCH
ESTABLISHMENT, REHOVOTH, ISRAEL.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1783 Greenwood, R. C., Reed, J. H.
The potential application of neutron-capture-gamma-ray analytical techniques to reactor materials.
Trans. Am. Nucl. Soc., **6**, 176 (1963).
 (ENGLISH). ARMOUR RESEARCH FOUNDATION, CHICAGO, ILLINOIS.
- 1785 Greenwood, R. C., Reed, J. H., Kolar, R. D., Terrell, C. W.
Use of neutron-capture gamma rays for a lunar-surface compositional analysis.
Trans. Am. Nucl. Soc., **6**, 179-180 (1963).
 (ENGLISH). ARMOUR RESEARCH FOUNDATION, CHICAGO, ILLINOIS.
- 1786 Benson, P. A., Gleit, C. E.
Extension of neutron activation analysis to 10^{-9} gram samples.
Trans. Am. Nucl. Soc., **6**, 181 (1963).
 (ENGLISH). TRACERLAB INC., RICHMOND, CALIF.
- 1787 Clark, L., Rasmussen, N. C.
Prompt activation analysis for boron and lithium.
Trans. Am. Nucl. Soc., **6**, 182 (1963).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 1788 Molinski, V. J., Wahl, W. H., Strain, W. H.
Analysis of vanadium in milk powder by neutron-activation analysis using a rapid radiochemical separation of 3.77-minute vanadium-52.
Trans. Am. Nucl. Soc., **6**, 398 (1963).
 (ENGLISH). OAK RIDGE GASEOUS DIFFUSION PLANT, OAK RIDGE, TENN.
- 1789 Miller, W. P., Newcomb, J. C.
Investigation of gasoline-engine wear by the neutron-activation technique.
Trend Eng. Univ. Wash., **16**, 5-7 (1964).
 (ENGLISH). NUCLEAR REACTOR LABORATORIES, UNIVERSITY OF WASHINGTON, SEATTLE, WASH.
- 1790 Nostrand, J. W., Kramer, H. H.
Computer integrated activation.
 Instrument Society of America Preprint 2.4-2.64 (CONF-701-8), October 12-15, 1964, 8p. (1964).
 (ENGLISH). UNION CARBIDE CORPORATION, NUCLEAR DIVISION, TUXEDO, N.Y.
- 1791 Nass, H. W.
Activation analysis with the Michigan reactor. Application to Michigan problems.
 CONF-138-1, *11th Detroit Anachem Conference, Detroit, Michigan, October 21-23, 1963*, 8p. (1963).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 1792 Van Den Broek, S. E.
Activation analysis as a tool for industry and research.
Nucl. Energy, 36-38 (February 1964).
 (ENGLISH). GRAVINER (GOSPORT), LTD.
- 1793 Fisher, D. E.
Non-destructive activation analysis of meteorites.
Meteoritics, **2**, 137-139 (1964).
 (ENGLISH). CORNELL UNIVERSITY, ITHACA, N.Y.
- 1794 Netzel, D. A., Stanley, C. W., Rathburn, D. W.
A neutron activation method for soil removal measurement.
 CONF-371-1, *American Oil Chemists Society 37th Annual Fall Meeting, Minneapolis, Minnesota, September 30-October 2, 1963*, 18p. (1963).
 (ENGLISH). MIDWEST RESEARCH INSTITUTE, KANSAS CITY, MISSOURI.
- 1795 Prussin, S. G., Harris, J. A., Hollander, J. M.
Application of lithium-drifted germanium gamma-ray detectors to neutron activation analysis. Non-destructive analysis of

ACTIVATION ANALYSIS—BIBLIOGRAPHY

aluminum.

- Anal. Chem.*, **37**, 1127–1132 (1965).
(ENGLISH). LAWRENCE RADIATION LABORATORY, BERKELEY, CALIF.
- 1796 Strain, J. E., Leddicotte, G. W., Dyer, F. F., Emery, J. F., Bate, L. C., Ross, W. J., Mullins, W. T.
The use of neutrons in analysis.
1961 USBM Symposium, Reno, Nevada, September 19–22, 1961, 29p. (1961).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN
- 1797 Samsahl, K., Brune, D., Wester, P. O.
Simultaneous determination of 30 trace elements in cancerous and non-cancerous human tissue samples by gamma-ray spectrometry.
AE-124, 25p. (October 1963).
(ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM.
- 1798 Martin, T. C., Mathur, S. C.
Interim technical report (on nuclear techniques in coal analysis) for period ending January 31, 1963.
TID-18883, 30p. (27 February 1963).
(ENGLISH). TEXAS NUCLEAR CORP., AUSTIN, TEXAS.
- 1799 Lowman, J. T., Krivit, W.
New in vivo tracer method with the use of nonradioactive isotopes and activation analysis.
J. Lab. Clin. Med., **61**, 1042–1048 (1963).
(ENGLISH). UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA.
- 1800 Soremark, R., Bergman, B.
Gamma-ray spectrometric analysis of some micro elements in human mandibular compact bone.
Acta Isotopica, **2**, 5–19 (1962).
(ENGLISH). BIOPHYSICS LABORATORY, THE DEPARTMENT OF PROSTHETICS,
- THE ROYAL SCHOOL OF DENTISTRY,
STOCKHOLM, SWEDEN.
- 1801 Smith, G. W., Santelli, D. J., Fiess, H.
The neutron activation determination of lithium in the presence of alkali metals and magnesium.
Anal. Chim. Acta, **33**, 1–12 (1965).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). CHEMICAL ENGINEERING DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 1802 Voigt, A. F., Clark, R. G., Stensland, W. A.
Activation analysis with 14 MeV neutrons.
IS-900, Section C, 59–60 (1964).
(ENGLISH). AMES LABORATORY, AMES, IOWA.
- 1803 Voigt, A. F., Hunt, L. P., Jacobson, E. C., Jewett, G. L., Mason, R. S., Palino, G. F., Wechter, M. A.
Activation analysis with thermal neutrons.
IS-900, Section C, 60–62 (1964).
(ENGLISH). AMES LABORATORY, AMES, IOWA.
- 1804 Bramlitt, E. T.
Heavy water organic cooled reactor. Determination of total oxygen in Al–Al₂O₃ alloys by fast neutron activation analysis.
AI-CE-74, 27p. (August 15, 1967).
(ENGLISH). ATOMICS INTERNATIONAL, CANOGA PARK, CALIF.
- 1805 Soubeyrand, R.
Application to radioactivation analysis to determination of manganese in wheat.
NP-16798, 35p. (July 12, 1965).
(FRENCH). FACULTE DES SCIENCES, UNIVERSITE DE GRENOBLE, FRANCE.
- 1806 University of Washington
Annual report on nuclear physics, June 1967.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- RLO-1388-23, 114p. (June 1967).
(ENGLISH). UNIVERSITY OF
WASHINGTON, NUCLEAR PHYSICS
LABORATORY, SEATTLE, WASHINGTON.
- 1807 Bowen, H. J. M., Gibbons, D.
Radioactivation analysis.
Radioactivation Analysis, 300p.,
New York, Oxford University Press
(1963).
(ENGLISH). WANTAGE RESEARCH
LABORATORY, AERE, WANTAGE, BERKS,
ENGLAND.
- 1808 Burrill, E. A., Gale, A. J.
**Activation analysis with Van de
Graaff neutron sources.**
NP-13762, 12p. (November 1961).
(ENGLISH). HIGH VOLTAGE
ENGINEERING CORP., BURLINGTON,
MASS.
- 1809 Wainerdi, R. E., Fite, L. E.,
Gibbons, D., Wilkins, W. W.,
Jimenez, P., Drew, D. D.
**The design and use of an advanced,
integrated automatic system and
computer program for nuclear
activation analysis.**
Radiochemical Methods of Analysis,
Vol. II, 149-159, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). ACTIVATION
ANALYSIS RESEARCH LABORATORY AND
DATA PROCESSING CENTER, TEXAS A
AND M UNIVERSITY, COLLEGE
STATION, TEXAS.
- 1810 Meinke, W. W.
**The place of radiochemical methods
of analysis: Today and tomorrow.**
Radiochemical Methods of Analysis,
Vol. I, 13-20, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). ANALYTICAL
CHEMISTRY DIVISION. NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.
- 1811 Amiel, S., Nir, A.
**Analysis of oxygen-18 based on the
reaction $^{18}\text{O}(\alpha, n)^{21}\text{Ne}$.**
Radiochemical Methods of Analysis,
Vol. I, 287-294, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). ISOTOPE
DEPARTMENT, THE WEIZMANN
INSTITUTE OF SCIENCE, REHOVOTH,
ISRAEL.
- 1812 Butler, J. R., Thompson, A. J.
**Different values for caesium in
G-1.**
Geochim. Cosmochim. Acta, 26,
1349-1350 (Dec. 1962).
(ENGLISH). PURE GEOCHEMISTRY
SECTION, DEPARTMENT OF GEOLOGY,
IMPERIAL COLLEGE, SOUTH
KENSINGTON, LONDON, ENGLAND.
- 1813 Fisher, D. E., Currie, R. L.
**Instrumental activation analysis
of meteorites involving both
thermal and fast neutrons.**
Radiochemical Methods of Analysis,
Vol. I, 217-228, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). NUCLEAR
REACTOR LABORATORY, CORNELL
UNIVERSITY, ITHACA, N.Y.
- 1814 Aumann, D. C., Born, H. J.
**Determination of oxygen-18
abundance in hydrogen containing
substances by neutron
irradiation.**
Radiochemical Methods of Analysis,
Vol. I, 229-242, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). INSTITUT FUR
RADIOCHEMIE, TECHNISCHE
HOCHSCHULE MUNCHEN, MUNICH
FEDERAL REPUBLIC OF GERMANY.
- 1815 Gibbons, D., Mc Cabe, W. J.,
Olive, G.
**The application of 14 MeV neutron
activation analysis to the
measurement of additives in
lubricating oil.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Radiochemical Methods of Analysis,
Vol. I, 297–322, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). WANTAGE
RESEARCH LABORATORY. AERE,
WANTAGE, BERKS., ENGLAND.

1816 Engelmann, C.

**Determination of oxygen, carbon,
nitrogen and certain other
impurities in beryllium, calcium,
sodium, and boron by gamma-ray
activation.**

Radiochemical Methods of Analysis,
Vol. I, 341–359, Vienna,
International Atomic Energy
Agency (1965).

(FRENCH) (ENGLISH, RUSSIAN AND
SPANISH SUMMARIES). CENTRE
D'ETUDES NUCLEAIRES, SACLAY,
FRANCE.

1817 Coulomb, R., Schiltz, J. C.

**Use of paper chromatography and
computers in neutron activation.
Application to routine
quantitative analysis of trace
elements in geologic materials.**

Radiochemical Methods of Analysis,
Vol. II, 177–191, Vienna,
International Atomic Energy
Agency (1965).

(FRENCH) (ENGLISH, RUSSIAN AND
SPANISH SUMMARIES). CENTRE
D'ETUDES NUCLEAIRES,
FONTENAY-AUX-ROSES, FRANCE.

1818 May, S., Piccot, D.

**Quantitative determination of
calcium, silicium, sulphur and
phosphorous in nuclear graphites
by activation analysis.**

Radiochemical Methods of Analysis,
Vol. I, 137–152, Vienna,
International Atomic Energy
Agency (1965).

(FRENCH) (ENGLISH RUSSIAN AND
SPANISH SUMMARIES). CENTRE
D'ETUDES NUCLEAIRES DE SACLAY,
FRANCE.

1819 Aubouin, G., Junod, E.,
Laverlochere, J.

**The use of an electronic computer
in determining sodium, chlorine,
manganese and copper in
terphenyls by activation.**

Radiochemical Methods of Analysis,
Vol. II, 161–176, Vienna,
International Atomic Energy
Agency (1965).

(FRENCH) (ENGLISH, RUSSIAN AND
SPANISH SUMMARIES). CENTRE
D'ETUDES NUCLEAIRES. GRENOBLE,
FRANCE.

1820 Ruzicka, J., Zeman, A., Stary, J.

**Substoichiometry in activation
analysis and isotope dilution and
its use for determination of
trace of iron.**

Radiochemical Methods of Analysis,
Vol. II, 311–320, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). DEPARTMENT OF
NUCLEAR CHEMISTRY, FACULTY OF
TECHNICAL AND NUCLEAR PHYSICS,
PRAGUE, CZECHOSLOVAKIA.

1821 Spence, H., Cless-Bernert, T.,
Karlik, B.

**Determination of boron in steel by
neutron activation depression.**

Radiochemical Methods of Analysis,
Vol. I, 197–203, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES).
OSTERREICHISCHE STUDIENGESSELLSCH
AFT FUR ATOMENERGIE, INSTITUT FUR
RADIUMFORSCHUNG UND KERNPHYSIK.
VIENNA, AUSTRIA.

1822 Comanescu, V., Oncescu, M.,
Sandru, P., Topa, A.

**Development and testing of an
electrode for neutron-neutron and
neutron-gamma radioactive
logging.**

*Rev. Phys., Acad. Rep. Populaire
Roumaine*, 7, 455–465 (1962).

(ENGLISH). INSTITUTE FOR ATOMIC
PHYSICS, BUCHAREST.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1823 Engelmann, C.
Activation analysis of some light elements in various materials using charged particles (α and p).
Radiochemical Methods of Analysis, Vol. I, 405–418, Vienna, International Atomic Energy Agency (1965).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). CENTRE D'ETUDES NUCLEAIRES, SACLAY, FRANCE.
- 1824 Comar, D., Lepoec, C.
The use of ion-exchange resins for rapid chemical separation in activation analysis determination of iodine in biological fluids.
Radiochemical Methods of Analysis, Vol. II, 15–24, Vienna, International Atomic Energy Agency (1965).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). SERVICE HOSPITALIER FREDERIC JOLIOT, ORSAY, FRANCE.
- 1825 Houtman, J. P. W., Turkstra, J.
Neutron activation analysis and its possible application for age determination of paintings.
Radiochemical Methods of Analysis, Vol. I, 85–103, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). REACTOR INSTITUT, DELFT, NETHERLANDS.
- 1826 Munzel, H.
Two calculation programs for application in activation analysis.
Radiochemical Methods of Analysis, Vol. II, 141–148, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). KERNFORSCHUNGSZENTRUM, KARLSRUHE, FEDERAL REPUBLIC OF GERMANY.
- 1827 De Soete, D., Hoste, J.
A non-destructive activation analysis for the determination of
- Co in Ni using a Compton compensated gammaspectrometer.**
Radiochemical Methods of Analysis, Vol. II, 91–100, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). LABORATORY FOR ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, BELGIUM.
- 1828 Speecke, A., Maes, K.
Determination of Cu, Zn and Mn in cobalt metal by activation analysis.
Radiochemical Methods of Analysis, Vol. I, 51–60, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). STUDIECENTRUM VOOR KERNENERGIE, MOL, BELGIUM.
- 1829 Preisler, E., Stark, H.
The determination of tantalum and tungsten in niobium by means of activation analysis.
Radiochemical Methods of Analysis, Vol. I, 61–75, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). MAX-PLANCK-INSTITUT FUR METALLFORSCHUNG, ABTEILUNG FUR SONDERMETALLE, STUTTGART, GERMANY.
- 1830 Recke, W., Sorantin, H.
Rapid determination of silver in lead by non-destructive neutron activation analysis.
Radiochemical Methods of Analysis, Vol. I, 77–84, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE GES.M.B.H., REAKTORENZENTRUM, SEIBERSDORF, AUSTRIA.
- 1831 Markowitz, S. S., Mahony, J. D.
 ^3He activation analysis for carbon

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- by $^{12}\text{C}(^3\text{He}, \alpha)^{11}\text{C}$ reaction.
Radiochemical Methods of Analysis,
 Vol. I, 419–432, Vienna,
 International Atomic Energy
 Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND
 SPANISH SUMMARIES). DEPARTMENT OF
 CHEMISTRY AND LAWRENCE RADIATION
 LABORATORY, UNIVERSITY OF
 CALIFORNIA, BERKELEY, CALIF.
- 1832 Ordogh, M., Szabo, E., Hegedues,
 D.
**Determination of impurities in
 reactor grade uranium oxide.**
Radiochemical Methods of Analysis,
 Vol. I, 175–186, Vienna,
 International Atomic Energy
 Agency (1965).
 (ENGLISH) (FRENCH, RUSSIAN AND
 SPANISH SUMMARIES). CENTRAL
 RESEARCH INSTITUTE FOR PHYSICS,
 BUDAPEST, HUNGARY.
- 1833 Travesi, A., Galiano, J. A.
**Determination of traces of
 impurities in uranium by means of
 activation.**
Radiochemical Methods of Analysis,
 Vol. I, 153–173, Vienna,
 International Atomic Energy
 Agency (1965).
 (SPANISH) (ENGLISH, FRENCH AND
 RUSSIAN SUMMARIES). JUNTA DE
 ENERGIA NUCLEAR, MADRID, SPAIN.
- 1834 Lechtman, H. N., Sayre, E. V.
**Nuclear activation autoradiography
 of oil paints. A preliminary
 study.**
 BNL-8034, 11p.
 (ENGLISH). BROOKHAVEN NATIONAL
 LABORATORY, UPTON, N.Y.
- 1835 Towell, D. G., Volfovsky, R.,
 Winchester, J. W.
**Rare earth abundances in the
 standard granite G-1 and standard
 diabase W-1.**
Geochim. Cosmochim. Acta, **29**,
 569–572 (1965).
 (ENGLISH). DEPARTMENT OF GEOLOGY
 AND GEOPHYSICS, MIT, CAMBRIDGE,
 MASS.
- 1836 Fleischer, A. A.
**A 30-inch cyclotron for use in
 activation analysis.**
 Cyclotron Corp. Report No. 1001,
 31p. (March 1965).
 (ENGLISH). THE CYCLOTRON CORP.,
 BERKELEY, CALIF.
- 1837 High Voltage Engineering Corp.
**Carbon determinations via charged
 particle activation.**
 High Voltage Engineering Corp.
 Technical Note 3, 1p.
 (ENGLISH). HIGH VOLTAGE
 ENGINEERING CORP., BURLINGTON,
 MASS.
- 1838 High Voltage Engineering Corp.
**Activation analysis with Van de
 Graaff neutron sources.**
 High Voltage Engineering Corp.
 Bulletin AAA, 12p. (November
 1961).
 (ENGLISH). HIGH VOLTAGE
 ENGINEERING CORP., BURLINGTON,
 MASS.
- 1839 Gebauhr, W., Martin, J.
**Determination of rare earths in
 graphite by means of activation
 analysis.**
Nukleonik, **4**, 9–18 (1962).
 (GERMAN). FORSCHUNGLABORATORIUM
 DER SIEMENS-SCHUCKERTWERKE AG,
 ERLANGEN, GERMANY.
- 1840 Grosel, J., Sorantin, H.
**Nondestructive determination of
 impurities in pure niobium by
 neutron activation and gamma
 spectrometry.**
Mikrochim. Ichnoanal. Acta, **2**,
 297–308 (1965).
 (GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FÜR CHEMIE,
 OSTERREICHISCHE STUDIENGESELLSCHA
 FT FÜR ATOMENERGIE GES.M.B.H.,
 GERMANY.
- 1841 Adams, F., Hoste, J.
**Neutron-activation analysis of
 copper in lead.**
Talanta, **12**, 221–225 (1965).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). LABORATORY FOR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.

203p., Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).

- 1842 Schmied, H., Deak, M.
**Rate of evaporation of thorium
from carburized thoriated
tungsten cathodes measured by
activation analysis.**
Brit. J. Appl. Phys., **16**, 269–270
(1965).
(ENGLISH). BROWN BOVERI AND CO.
LTD., BADEN, SWITZERLAND.
- 1843 Caldwell, R. L., Baldwin, W. F.,
Bargainer, J. D., Berry, J. E.,
Salaita, G. N., Sloan, R. W.
**Gamma-ray spectroscopy in well
logging.**
Geophysics, **28**, No. 4, 617–632
(August 1963).
(ENGLISH). SOCONY MOBIL OIL CO.
INC., DALLAS, TEXAS.
- 1844 Benson, P. A., Gleit, C. E.
**Neutron activation and
radiochemical determination of
the molybdenum, chromium, and
iron content of individual
stainless steel microspheres.**
Anal. Chem., **35**, 1029–1032 (1963).
(ENGLISH). TRACERLAB. DIVISION OF
LABORATORY FOR ELECTRONICS,
RICHMOND, CALIF.
- 1845 Porritt, R., Thackray, M.
**Safe, simple method of opening
irradiated silica ampoules.**
Anal. Chem., **35**, 1111 (1963).
(ENGLISH). AUSTRALIAN ATOMIC
ENERGY COMMISSION, RESEARCH
ESTABLISHMENT, LUCAS HEIGHTS, NEW
SOUTH WALES, AUSTRALIA.
- 1846 Reynolds, S. A.
Radiochemical and nuclear methods.
*Analysis of Essential Nuclear
Reactor Materials*, 1111–1128,
Rodden and Clement (1964).
(ENGLISH). OAK RIDGE ANTIONAL
LABORATORY, OAK RIDGE, TENN.
- 1847 Lyon, W. S.
Guide to activation analysis.
Guide to Activation Analysis,
203p., Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1848 Koch, H., Koch, B.
**Selenium purity examinations by
activation analysis.**
Kerntechnik, **5**, 248–251 (1963).
(GERMAN). INSTITUT FUR
ANGEWANDTE RADIOAKTIVITAT,
LEIPZIG, GERMANY.
- 1849 Voigt, A. F.
Activation analysis.
ISC-1116, 51 (1959).
(ENGLISH), AMES LABORATORY, IOWA
STATE COLLEGE, AMES, IOWA.
- 1850 Wiberley, J. S.
**Elementary analysis using
radiation sources.**
Microchem. J., **II**, 219–227 (1958).
(ENGLISH). SOCONY MOBIL OIL
COMPANY, INC., RESEARCH
DEPARTMENT, BROOKLYN, N.Y.
- 1851 Shumway, R. H.
**Radionuclide analysis of gamma-ray
spectra by stepwise multiple
regression.**
Public Health Service Publ. No.
999-R-5, 19p. (1963).
(ENGLISH). PUBLIC HEALTH SERVICE,
WASHINGTON, D.C.
- 1852 Steele, E. L.
Nuclear activation analysis.
*Proceedings of the Symposium on
Physics and Nondestructive
Testing, San Antonio, Texas*,
315–355 (1963).
(ENGLISH). TEXAS AGRICULTURAL
AND MECHANICAL COLLEGE, COLLEGE
STATION, TEXAS.
- 1853 Taylor, N. K., Linacre, J. K.
**The use of cobalt as an accurate
thermal neutron flux monitor.**
AERE-R-4111, 37p. (July 1964).
(ENGLISH). CHEMISTRY DIVISION,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

AERE, HARWELL, BERKSHIRE,
ENGLAND.

- 1854 High Voltage Engineering Corp.
Fast activation analysis with Van de Graaff neutron sources.
High Voltage Engineering Corp.
Bulletin FA, 21p. (June 1962).
(ENGLISH). HIGH VOLTAGE
ENGINEERING CORP., BURLINGTON,
MASS.
- 1855 Chiba, M.
Study on the application of radiochemical methods to the analysis of metals (I).
Activation analysis of impurities in the metallic silicon of high purity.
Trans. Natl. Res. Inst. Metals (Tokyo), 4, 143–150 (1962).
(ENGLISH). JAPAN
- 1856 El-Shamy, H. K., Abdel-Rassoul, A. A., Bishay, T. Z.
Determination of certain trace impurities in pure lead and aluminum by neutron activation analysis.
Third United Nations International Conference on the Peaceful Uses of Atomic Energy, A/CONF.28/P/829, 14p. (1964).
(ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, ATOMIC ENERGY ESTABLISHMENT, INSHASS, U.A.R.
- 1857 Amiel, S.
Neutron counting in activation analysis.
Third United Nations International Conference on the Peaceful Uses of Atomic Energy, A/CONF.28/P/825, 20p. (1964).
(ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, REHOVOTH, ISRAEL.
- 1858 Abdel-Rassoul, A. A., Abdel-Wahab, M. F., Schulert, A. R., Browne, H. G., Mansour, M. M.
Biological disposition of anti-bilharzial antimony drugs. Part I. Estimation of antimony in body fluids and parasites by activation analysis.
Third United Nations International Conference on the Peaceful Uses of Atomic Energy, A/CONF.28/P/841, 11p. (1964).
(ENGLISH). ATOMIC ENERGY ESTABLISHMENT, INSHAS, U.A.R.
- 1859 Gorski, L., Kusch, W., Wojtkowska, J.
A statement of the applicability of fast neutron activation analysis to determine the copper content in copper deposits.
PAN-487/IA, 12p. (December 1963).
(ENGLISH). POLISH ACADEMY OF SCIENCES, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 1860 Wilson, R., Kinsley, M., Finston, H. L.
Analysis of diamond dust.
BNL-731, 55–56 (1962).
(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 1861 Rook, H. L.
Analysis of total beryllium in beryllium metal by gamma activation.
Anal. Chem., 36, 2211–2212 (1964).
(ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.
- 1862 Foldzinska, A., Malinowski, J.
Application of the Gutzzeit method to radiochemical determination of arsenic. II. Determination of arsenic in semiconductor-grade germanium, sulphur and mineral acids.
Nukleonika, 8, No. 4, 233–236 (1963).
(ENGLISH). (POLISH AND RUSSIAN SUMMARIES). INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 1863 Wahlgren, M. A., Orlandini, K. A.
Determination of germanium in mineral specimens by neutron activation analysis.
TID-17665, 53–60 (1962).
(ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1864 Lundgren, F. A., Nargolwalla, S. S.
Use of a dual sample biaxial rotating assembly with a pneumatic tube transfer system for high precision 14 MeV neutron activation analysis.
Anal. Chem., **40**, No. 4, 672-677 (1968).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. **flux.**
Kerntechnik, **5**, 334-338 (1963).
 (GERMAN). JULICH, GERMANY.
- 1865 Bussell, H., Zyskowski, C. L., Nelson, L. C.
Neutron activation analysis of uranium-235 with improved precision and accuracy.
 TID-7655, 61-89 (1962).
 (ENGLISH). NEW BRUNSWICK LABORATORY, USAEC, NEW BRUNSWICK, N.J. 1870 Steim, J. M., Benson, A. A.
Neutron activation chromatographic analysis in biochemistry.
Trans. Am. Nucl. Soc., **6**, 399-400 (1963).
 (ENGLISH). PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA.
- 1866 Fite, L. E., Wilkins, W. W., Wainerdi, R. E.
The Texas A. and M. Mark I-IA, automatic reactor and computer-coupled system for activation analysis.
 TID-7655, 40-52 (1962).
 (ENGLISH). AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, COLLEGE STATION, TEXAS. 1871 Postma, F. W., Mc Murray, C. S.
Determination of beryllium metal by activation analysis.
 TID-7655, 90-106 (1962).
 (ENGLISH). UNION CARBIDE NUCLEAR CO. Y-12 PLANT, OAK RIDGE, TENN.
- 1867 Meinke, W. W.
Activation analysis and the research reactor.
Chemistry Research and Chemical Techniques Based on Research Reactors, 95-114, IAEA Technical Report Series No. 17 (May 1963).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH. 1872 Corless, J. T., Winchester, J. W.
Determination of the relative isotopic abundance of ⁴⁸Ca in natural materials by neutron activation analysis.
 NYO-2302, 105-106 (1962).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 1868 Guinn, V. P.
Activation analysis with a research reactor—new developments.
 TID-7655, 1-11 (1962).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF. 1873 Stang, L. G.
Activation analyses for medical research: The use of stable silver as a tracer.
 BNL-7772, 48p. (June 1955).
 (ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 1869 Schneider, W.
Activation by reactor neutron 1874 Winchester, J. W., Duce, R. A.
Halogen geochemistry.
Tech. Eng. News, 27-31 (May 1955).
 (ENGLISH). DEPARTMENT OF GEOPHYSICS, MIT, CAMBRIDGE, MASS.
- 1875 Wood, D. E., Roper, N. J.
Fast neutron activation analysis for silicon in iron.
 KN-65-140 (R), 21p. (15 April 1965).
 (ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 1876 General Dynamics Corporation
Activation analysis service. Short courses.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- General Dynamics Bulletin, 2p.
(ENGLISH). GENERAL DYNAMICS,
GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.
- 1877 Babala, D., Vorzhishek, M.
**Calculation and measurement of
certain corrections in the case
of activation by thermal
neutrons.**
*Rev. Phys. Acad. Rep. Populaire
Roumaine*, 6, Suppl., 189–205
(1961).
(RUSSIAN) RUSSIA.
- 1878 Girardi, F., Guzzi, G., Pauly, J.
**Identification chart for gamma
emitting radionuclides formed
by (n, γ) reactions.**
EUR 2408.E., 14p. (August 1965).
(ENGLISH). JOINT NUCLEAR RESEARCH
CENTER, ISPRA ESTABLISHMENT,
ITALY.
- 1879 Kusaka, Y., Tsuji, H.
**Radioactivation analysis of indium
using radium plus beryllium
neutron source. II. Studies on
neutron irradiation method for
sample of aqueous solution.**
Nippon Kagaku Zasshi, 81,
1087–1090 (1960).
(JAPANESE) (ENGLISH SUMMARY).
KONAN UNIVERSITY, KOBE, JAPAN.
- 1880 Aoki, F., Okada, M.
**Basic studies on activation
analysis. I. Optimum sample
position in activation analysis
using Ra–Be neutron source in
paraffin moderator.**
Tokyo Kogyo Shikensho Hokoku, 54,
121–125 (1959).
(JAPANESE). GOVERNMENT CHEMICAL
AND INDUSTRIAL RESEARCH
INSTITUTE, TOKYO, JAPAN.
- 1881 Okada, M.
**Basic study on activation analysis
(IV). Observation of the extent
of the formation of short-lived,
gamma active nuclides by neutron
irradiation.**
Tokyo Kogyo Shikensho Hokoku, 58,
486–488 (1963).
- (JAPANESE) (ENGLISH SUMMARY).
GOVERNMENT CHEMICAL INDUSTRIAL
RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1882 Okada, M.
**Study on rapid analysis by
radioactivation (VI).
Determination of ytterbium in
aqueous solutions and in thulium
oxide.**
Tokyo Kogyo Shikensho Hokoku, 58,
489–491 (1963).
(JAPANESE) (ENGLISH SUMMARY).
GOVERNMENT CHEMICAL INDUSTRIAL
RESEARCH INSTITUTE, TOKYO, JAPAN.
- 1883 Travesi Jimenez, A.
**Preparation of flux monitors for
activation analysis in a nuclear
reactor.**
Anales Real Soc. Espan. Fis. Quim.
(Madrid), Ser. B, 60, 363–380
(1964).
(SPANISH) (ENGLISH SUMMARY).
JUNTA DE ENERGIA NUCLEAR
DIRECCION DE QUIMICA E ISOTOPOS,
SECCION DE RADIOQUIMICA.
- 1884 Sterlinski, S.
**Optimal irradiation and
measurement condition in
activation analysis.
Gamma-spectrometric determination
of trace contamination in
presence of active matrix.**
Nukleonika, 8, No. 1, 57–67
(1963).
(POLISH) (ENGLISH SUMMARY).
INSTYTUT BADAN JADROWYCH,
WARSZAWA, POLAND.
- 1885 Saizev, E. I., Malyshev, V. I.,
Salmin, P., Shiryayeva, M.
B., Yakubovich, A. L.
**Several possibilities for the
application of nuclear physical
methods of analysis in
geochemical exploratory studies
on ore deposits.**
Z. Angew. Geol., 11, 180–183
(April 1965).
(GERMAN TRANSLATION). USSR.
- 1886 Ramdohr, H. F.
Activation analysis for copper ore

ACTIVATION ANALYSIS—ACCESSION NUMBERS

sorting.

Kerntechnik, 5, 204–206 (1963).

(GERMAN). INSTITUT KARLSRUHE DER ISOTOPEN-STUDIENGESELLSCHAFT E.V.

COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, FRANCE.

1887 Volborth, A., Vincent, H. A.

Accurate determination of total oxygen in six new U. S. Geological survey rock standards by fast neutron activation.

Trans. Amer. Nucl. Soc., 10, 27–28 (June 1967).

(ENGLISH). UNIVERSITY OF NEVADA, RENO, NEVADA.

1892 Samsahl, K.

An anion-exchange method for the separation of ^{32}P activity in neutron-irradiated biological material.

AE-149, 10p. (June 1964).

(ENGLISH). AKTIEBOLAGET ATOMENERGT, STOCKHOLM, SWEDEN.

1888 Netzel, D. A., Stanley, C. W., Rathburn, D. W.

A neutron activation method for soil removal measurements: A comparison of the reflectance method and the neutron activation method.

J. Am. Oil Chemists Soc., 41, 678–683 (Oct. 1964).

(ENGLISH). MIDWEST RESEARCH INSTITUTE. KANSAS CITY, MISSOURI.

1893 Brune, D., Sjoberg, H. E.

Determination of magnesium in needle biopsy samples of muscle tissue by means of neutron activation analysis.

AE-151, 8p. (July 1964).

(ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.

1889 Texas Nuclear Corporation

The application of nuclear techniques in coal analysis. Interim technical report No. 2.

CONF-313-2, 2nd National Meeting of the Society for Applied Spectroscopy, San Diego, California, October 14–18, 1963, 102p. (1963).

(ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.

1894 Samsahl, K.

A simple apparatus for fast ion exchange separations.

AE-159, 15p. (September 1964).

(ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.

1890 Grummitt, W. E., Lahaie, G.

Strontium, barium and calcium in some components of human diet.

AECL-1680, 20p. (January 1963).

(ENGLISH). ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, CANADA.

1895 Altmann, H.

IAEA-panel on the use of isotopes and radiation in plant pathology Vienna, Sept. 2–6, 1963. Part II. Activation analysis in virus research.

SGAE-BL-4/1964, 5p. (1963).

(ENGLISH). OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE, GES.M.B.H. REAKTORZENTRUM SEIBERSDORF, AUSTRIA.

1891 Diebolt, J.

Contribution to the activation analysis of the rare gases.

Contribution to the analysis of carbon monoxide and water vapour in gases.

CEA-R 2357, 48p. (1963).

(FRENCH) (ENGLISH SUMMARY).

1896 Gibbons, D., Olive, G.

Applications of a neutron generator in radioactivation analysis.

AERE-R-4576, 23p. (November 1963).

(ENGLISH). UKAEA, ISOTOPE RESEARCH DIVISION, AERE, WANTAGE RESEARCH LABORATORY, WANTAGE, BERKS, ENGLAND.

1897 Sayre, E. V.

The study of ancient objects by

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- ESTABLISHMENT TROMBAY, BOMBAY,
INDIA.
- neutrons.**
BNL-4868, 20p. (1962).
(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.
- 1898 Rasmussen, N. C., Hukai, Y.
**The prompt activation analysis of
coal using neutron capture gamma
rays.**
Trans. Amer. Nucl. Soc., **10**, 29-30
(June 1967).
(ENGLISH). MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.
- 1899 To-on, M.
**The determination of phosphorous
by fast neutron activation
analysis.**
TID-20472, 126p. (1963).
(ENGLISH). TEXAS AGRICULTURAL AND
MECHANICAL COLLEGE, COLLEGE
STATION, TEXAS.
- 1900 Steele, E. L., Lukens, H. R.
**Development of neutron activation
analysis procedures for the
determination of oxygen in
potassium. First and second
quarterly report (period ending
December 26, 1963).**
GA-4855, 30p. (January 10, 1964).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.
- 1901 Alian, A., Parthasarathy, R.,
Sankar Das, M.
**Neutron activation analysis of
traces of uranium: Solvent
extraction and gamma-ray
spectrometric determination of
²³⁹Np.**
AEET/Anal./35, 20 p. (1965).
(ENGLISH). ANALYTICAL DIVISION
ATOMIC ENERGY ESTABLISHMENT
TROMBAY, BOMBAY, INDIA.
- 1902 Sankar Das, M., Sharma, H. D.
**Activation analysis as applied to
the problems in the Atomic Energy
Establishment Trombay.**
AEET/Radiochem/56, 6p. (1964).
(ENGLISH). ATOMIC ENERGY
- 1903 Gangadharan, S., Krishnamoorthy
Iyer, R., Sankar Das, M.
**A compilation of data for
activation analysis by (n,γ)
reaction.**
AEET/Anal./28, 44p. (1963).
(ENGLISH). ANALYTICAL DIVISION,
ATOMIC ENERGY ESTABLISHMENT
TROMBAY, BOMBAY, INDIA.
- 1904 Batelle Memorial Institute
**Development of analytical
techniques for the determination
of minute quantities of selected
elements in beryllium.**
AD-410234, 42p. (July 22, 1963).
(ENGLISH). BATELLE MEMORIAL
INSTITUTE, COLUMBUS, OHIO.
- 1905 Twitty, B. L.
**The neutron activation facility at
the National Lead Company of
Ohio.**
NLCO-927, 18p. (September 23,
1964).
(ENGLISH). NATIONAL LEAD COMPANY
OF OHIO, CINCINNATI, OHIO.
- 1906 Amiel, S.
**New methods of radio-activation
analysis based on delayed neutron
emission and secondary reactions.**
Utilization of Research Reactors,
Vol. **3**, 307-314, Vienna,
International Atomic Energy
Agency, London, Academic Press
(1962).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION LABORATORIES,
REHOVOTH, ISRAEL.
- 1907 Green, D. E.
**Activation analysis with a low
power research reactor.**
Utilization of Research Reactors,
Vol. **3**, 315-320, Vienna,
International Atomic Energy
Agency, London, Academic Press
(1962).
(ENGLISH). ASSOCIATED ELECTRICAL
INDUSTRIES LIMITED, RESEARCH

ACTIVATION ANALYSIS—ACCESSION NUMBERS

LABORATORY, ALDERMASTON COURT,
BERKSHIRE, ENGLAND.

1908 Hara, R.

**Some comments on chemistry
research and chemical techniques
based on research reactors.**

Utilization of Research Reactors,
Vol. 3, 361-371, Vienna,
International Atomic Energy
Agency, London, Academic Press
(1962).

(ENGLISH). INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA.

1909 Yeh, S. J.

**The research program in
radiochemistry and radiation
chemistry using the nuclear
reactor at the National Tsing Hua
University.**

Utilization of Research Reactors,
Vol. 3, 395-402, Vienna,
International Atomic Energy
Agency, London, Academic Press
(1962).

(ENGLISH). NATIONAL TSING HUA
UNIVERSITY, TAIWAN, CHINA.

1910 Brune, D., Jirlow, K.

**Optimization in activation
analysis by means of epithermal
neutrons. Determination of
molybdenum in steel.**

AE-128, 13p. (1963).

(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.

1911 Sankar Das, M.

**Evaluation of certain threshold
reactions induced by reactor-fast
neutrons for their application in
activation analysis.**

A.E.E.T. Preprint, 17p.

(ENGLISH). ATOMIC ENERGY
ESTABLISHMENT TROMBAY, BOMBAY,
INDIA.

1912 Fite, L. E., Steele, E. L.,
Wainerdi, R. E., Ibert, E.,
Jimenez, P., Samson, C., To-on,
M.

**An investigation of remote lunar
analysis by nuclear activation
analysis.**

TID-19999, 101p. (April 30, 1963).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS
ENGINEERING EXPERIMENT STATION, A
AND M COLLEGE OF TEXAS, COLLEGE
STATION, TEXAS.

1913 Mercer, W. A.

**Application of radiochemistry
techniques in food processing
research. Radioisotopic tracer
techniques in evaluation and
improvement of industry practices
for removal of pesticide residues
from foods.**

SAN-1022, 93p. (February 1963).

(ENGLISH). NATIONAL CANNERS
ASSOCIATION WESTERN RESEARCH
LABORATORY, BERKELEY, CALIF.

1914 Nuclear Science and Engineering
Corporation

**Survey of iodine-129
concentrations in thyroid
tissues.**

NSEC-88, 19p. (March 4, 1963).

(ENGLISH). NUCLEAR SCIENCE AND
ENGINEERING CORP., PITTSBURGH,
PA.

1915 Amsel, G.

**Microanalysis by the observations
of nuclear reactions application
to solid-state physics.**

LAL-1053, 39p. (May 1963).

(FRENCH). PARIS. UNIVERSITE,
ORSAY, ECOLE NORMALE SUPERIEURE,
LABORATOIRE DE L'ACCELERATEUR
LINEAIRE, FRANCE.

1916 Ponitz, W.

**Determination of absolute thermal
neutron flux by gold foils.**

KFK-180, 28p. (April 1963).

(ENGLISH). INSTITUT FUR
ANGEWANDTE KERNPHYSIK,
KERNFORSCHUNGSZENTRUM KARLSRUHE,
GERMANY.

1917 Howard, P. K., Covault, D. O.

**Determination of the uniformity of
mixing of portland cement and
bituminous concrete for various
mixing times by the use of
radioisotopes.**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- SRO-79, 63p. (20 January 1963).
(ENGLISH). ENGINEERING EXPERIMENT
STATION, GEORGIA INSTITUTE OF
TECHNOLOGY, ATLANTA, GEORGIA.
- 1918 European Atomic Energy Community
**Activation analysis techniques at
the Joint Research Laboratories
at Ispra.**
EUR-1601.e, 78p. (1964).
(ENGLISH). EUROPEAN ATOMIC ENERGY
COMMUNITY, JOINT NUCLEAR RESEARCH
CENTER, ISPRA. ITALY.
- 1919 Borella, A., Guzzi, G.
**Computer program system for a
quantitative analysis by neutron
activation and gamma-ray
spectrometry.**
EUR-531, e, 55p. (1964).
(ENGLISH). EUROPEAN ATOMIC ENERGY
COMMUNITY, JOINT NUCLEAR RESEARCH
CENTER, ISPRA, ITALY.
- 1920 Wester, P. O.
**Concentration of 24 trace elements
in human heart tissue determined
by neutron activation analysis.**
AE-146, 33p. (June 1964).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.
- 1921 Milner, G. W. C., Wood, A. J.
**The determination of plutonium-241
in residue solutions by neutron
activation.**
AERE-R-4510, 9p. (January 1964).
(ENGLISH). UKAEA RESEARCH GROUP,
AERE, HARWELL, BERKS, ENGLAND.
- 1922 Olive, G., Cameron, J. F.,
Clayton, C. G.
**A review of high intensity neutron
sources and their application in
industry.**
AERE-R 3920, 43p. (June 1962).
(ENGLISH). ISOTOPE RESEARCH
DIVISION, AERE, WANTAGE RESEARCH
LABORATORY, BERKSHIRE, ENGLAND.
- 1923 United Kingdom Atomic Energy
Authority
**Analytical method for the
determination of the beta
activity due to phosphorous-32 in
a sulphur disc neutron dosimeter.**
PG Report 387(W), 9p. (1962).
(ENGLISH). UKAEA PRODUCTION
GROUP, HEADQUARTERS, RISLEY,
WARRINGTON, LANCASHIRE, ENGLAND.
- 1924 Cowper, G., Banville, B., Coveart,
A. S.
**Measurement of small
concentrations of argon-41 in
air.**
CRRD-1171, 7p. (October 1963).
(ENGLISH). ATOMIC ENERGY OF
CANADA LTD., CHALK RIVER,
ONTARIO, CANADA.
- 1925 Spronk, N.
**Sodium separation from biological
material.**
*American Nuclear Society Meeting,
New York, November 18-21, 1963,*
CONF-187-112, 8p. (1963).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1926 Sayre, E. V.
**Authentication of ancient
artifacts by nuclear means.**
Trans. Am. Nucl. Soc., 5, 283
(Nov. 1962).
(ENGLISH). BROOKHAVEN NATIONAL
LABORATORY, UPTON, N.Y.
- 1927 European Atomic Energy Community
**Comparative bibliography of
activation analysis (final
report).**
EUR 1886.f, 288p. (September
1964).
(FRENCH) (ENGLISH SUMMARY).
SOCIETE ATOME INDUSTRIEL, PARIS,
FRANCE.
- 1928 Smith, H.
**The interpretation of the arsenic
content of human hair.**
J. Forensic Science Society, 4,
No. 4, 192-199 (1964).
(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, THE UNIVERSITY
OF GLASGOW, SCOTLAND.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 1929 Hirayama, T., Nitto, M., Hiraoka, T., Hamada, K.
Process analysis by post-activation method.
Radioisotopes (Tokyo), **11**, 265–274 (Aug. 1962).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN.
- 1930 Beardsley, D. A., Briscoe, G. B., Ruzicka, J., Williams, M.
Substoichiometric determination of traces of gold by neutron-activation analysis.
Talanta, **12**, 829–839 (1965).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, COLLEGE OF ADVANCED TECHNOLOGY, BIRMINGHAM, ENGLAND.
- 1931 Reinhardt, K.
The analytical determination of separation factors with neutron activation and radioactive labeling for the Zr–Hf separation by distribution of their thiocyanates.
 Gmelin, AED Diss. 64–205, 112p. (1964).
 (GERMAN). GERMANY.
- 1932 Ross, H. H.
Basic nuclear properties and activation analysis.
Guide to Activation Analysis, 1–13, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1933 Ross, H. H.
Radiochemical separations.
Guide to Activation Analysis, 55–61, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 1934 Eldridge, J. S.
Application of the multichannel analyzer to activation analysis problems.
Guide to Activation Analysis, 100–103, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1935 Lyon, W. S.
Present byways and future trends in activation analysis.
Guide to Activation Analysis, 108–115, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1936 Ricci, E.
Practical examples of activation analysis.
Guide to Activation Analysis, 116–121, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1937 Ricci, E.
Determination of phosphorus in skin tissue (interfering nuclear reactions).
Guide to Activation Analysis, 121–127, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1938 Ricci, E.
Analysis of vanadium in an iron matrix (nondestructive gamma-ray spectrometry).
Guide to Activation Analysis, 127–133, Lyon, W.S., Jr. (Ed.), D. Van Nostrand Co. Inc., Princeton, N.J. (1964).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 1939 Ricci, E.
Determination of oxygen, phosphorous, and nitrogen in a typical phosphine oxide derivative (a neutron generator method).
Guide to Activation Analysis, 133–142, Lyon, W.S., Jr. (Ed.),

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- D. Van Nostrand Co. Inc.,
Princeton, N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1940 Strain, J. E.
Accelerator neutron sources.
Guide to Activation Analysis,
33-44, Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1941 Strain, J. E.
Isotopic neutron sources.
Guide to Activation Analysis,
44-54, Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1942 Eldridge, J. S.
Scintillator and analyzer types.
Guide to Activation Analysis,
80-88, Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1943 Eldridge, J. S.
Gamma-ray spectra interpretation.
Guide to Activation Analysis,
88-96, Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1944 Eldridge, J. S.
Choice of multichannel analyzer.
Guide to Activation Analysis,
96-100, Lyon, W.S., Jr. (Ed.), D.
Van Nostrand Co. Inc., Princeton,
N.J. (1964).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 1945 Hogdahl, O. T.
**Distribution of the rare earth
elements in sea-water.**
NATO Research Grant No. 203,
Semiannual Progress Report No. 2,
October 1, 1965 to March 31,
1966, 43p., 7 figures (April 30,
1966).
(ENGLISH). CENTRAL INSTITUTE FOR
INDUSTRIAL RESEARCH, OSLO,
BLINDERN, NORWAY.
- 1946 Kenna, B. T., Van Domelen, B. H.
**Neutron activation: Relationship
of sample mass to self-shielding
factor.**
*Intern. J. Appl. Rad. and
Isotopes*, **17**, 47-50 (1966).
(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). ANALYTICAL
METHODS DIVISIONS, SANDIA
LABORATORY, ALBUQUERQUE, N.M.
- 1947 Lukens, H. R.
**Elemental survey analysis by
neutron activation. Simplified
estimation of upper limits.**
Anal. Chim. Acta, **34**, 9-16 (1966).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIF.
- 1948 Rakovic, M., Dienstbier, Z.,
Kratochvilova-Talпова, H.
**Determination of phosphorus in
biological fluids by the
technique of neutron activation
analysis.**
Ceskoslovenska Radiologie, **20**, No.
2, 71-75 (1966).
(CZECHOSLOVAKIAN) (RUSSIAN AND
ENGLISH SUMMARIES). KATEDRA
LEKARSKE FYZIKY A NUKLEARNI
MEDICINY FAKULTY VSEOB LEKARSTVI
KU V PRAZE, CZECHOSLOVAKIA.
- 1949 Minczewski, J.
**Analytical chemistry applied to
the determination of trace
impurities.**
Chimie Anal., **47**, No. 8, 401-406
(August 1965).
(FRENCH). CHAIRE DE CHIMIE
ANALYTIQUE, A L'ECOLE
POLYTECHNIQUE DE VARSOVIE ET A
L'INSTITUT DE RECHERCHES
NUCLEAIRES, FRANCE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1950 Pasztor, L. C., Wood, D. E.
A comparison of neutron-activation analysis and hot extraction analysis of the oxygen content of steel.
Talanta, **13**, 389-401 (1966).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). GRAHAM RESEARCH LABORATORY, JONES AND LAUGHLIN STEEL CORPORATION, PITTSBURGH, PA.
activation analysis.
 ORO-2670-10, 154p. (April 1, 1966).
 (ENGLISH). UNIVERSITY OF KENTUCKY, DEPARTMENT OF CHEMISTRY, LEXINGTON, KENTUCKY.
- 1951 Pierce, T. B., Peck, P. F., Henry, W. M., Hooton, B. W.
The use of a lithium-drifted germanium diode to determine carbon in steels by measurement of prompt gamma-radiation.
Anal. Chim. Acta, **33**, 586-592 (1965).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY BRANCH AND NUCLEAR PHYSICS DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKS, ENGLAND.
- 1952 Pietra, R., Sabbioni, E., Pauly, J.
Determination by neutron activation analysis of impurities in some materials strongly activated upon irradiation.
 EUR 2753.f, 30p., (March 1966).
 (FRENCH) (ENGLISH SUMMARY). EURATOM, JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.
- 1953 Schroeder, G. L., Evans, R. D., Ragaini, R. C.
Determination of silver in minerals and ores by neutron activation analysis and high resolution gamma spectrometry.
Anal. Chem., **38**, No. 3, 432-434 (March 1966).
 (ENGLISH). DEPARTMENTS OF PHYSICS AND CHEMISTRY, MIT, CAMBRIDGE, MASS.
- 1954 Vogt, J. R.
The non-destructive determination of silicon and oxygen in meteorites by fast neutron
- 1955 Washington Post Newspaper
Atomic age assists in precious metal search.
 Washington Post Article, 2p., Saturday (August 21, 1965).
 (ENGLISH). BELTSVILLE, MARYLAND.
- 1956 Wood, D. E., Jessen, P. L., Jones, R. E.
New developments in neutron activation systems for analysis of oxygen in steel.
 Paper presented to the 1966 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, February 21-25, 1966, 16p., 20 figures (1966).
 (ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 1957 Sautin, A.
Activation analysis of a mixture of rare earths.
 LYCEN-6538, 83p. (December 1965).
 (FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON, FRANCE.
- 1958 Koehler, W.
Flux measurements and absolute calibrations at FRM.
Res. Reactor J., **3**, No. 1, 14-19 (Oct. 1962).
 (ENGLISH TRANSLATION). LABORATORIUM FUER TECHNISCHE PHYSIK DER TECHNISCHEN HOCHSCHULE MUENCHEN, GERMANY.
- 1959 Haskin, L. A., Gehl, M. A.
Rare-earth elements in tektites.
Science, **139**, 1056-1058 (15 March 1963).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 1960 Alian, A., Parthasarathy, R.
Neutron activation analysis by standard addition and solvent extraction.
Anal. Chim. Acta, **35**, No. 1, 69–73 (1966).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, INDIA.
- 1961 Bakes, J. M., Jeffery, P. G.
The determination of fluorine by neutron activation.
Analyst, **91**, 216–217 (March 1966).
 (ENGLISH). WARREN SPRING LABORATORY, GUNNEL'S WOOD ROAD, STEVENAGE, HERTS., ENGLAND.
- 1962 Choy, T. K.
The determination of gold in cosmic dust collection by nuclear activation analysis.
Anal. Chim. Acta, **34**, 372–374 (1966).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIF.
- 1963 Rakovic, M., Prochazkova, Z.
New separation procedure for determination of potassium in biologic material by the method of neutron activation analysis.
Ceskoslovenska Radiologie, **20**, No. 2, 107–112 (1966).
 (CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KU V PRAZE, CZECHOSLOVAKIA.
- 1964 Belkas, E. P., Souliotis, A. G.
Simultaneous determination of iodine and bromine in urine by neutron-activation analysis.
Analyst, **91**, 199–204 (March 1966).
 (ENGLISH). CHEMISTRY DEPARTMENT, NUCLEAR RESEARCH CENTRE, DEMOCRITUS, ATHENS, GREECE.
- 1965 Malvano, R., Grosso, P.
Determination of trace elements in iron by neutron-activation techniques.
Anal. Chim. Acta, **34**, 253–268 (1966).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). SORIN, CENTRO RICERCHE NUCLEARI, SALUGGIA, ITALY.
- 1966 Cocks, F. H., Rose, R. M., Wulff, J.
Segregation of tantalum at very low concentrations in niobium by controlled solidification a neutron-activation study.
J. Less Common Metals, **10**, No. 3, 157–168 (March 1966).
 (ENGLISH). DEPARTMENT OF METALLURGY, MIT, CAMBRIDGE, MASS.
- 1967 Conner, J. P., Wagner, R. T.
Annihilation radiation counting for neutron activation determination.
 LAMS-2428, 19p. (May 18, 1960).
 (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, N.M.
- 1968 Cypres, R., Bettens, B.
Non-destructive analysis, by weak radioactivation, of sodium in solids in the presence of potassium, aluminum and sodium.
Bull. Soc. Franc. Ceram., No. 69, 79–88 (1965).
 (FRENCH). UNIVERSITE LIBRE DE BRUXELLES.
- 1969 Kim, J. I., Hoste, J.
Activation analysis of mercury in high purity bismuth.
Anal. Chim. Acta, **35**, No. 1, 61–68 (1966).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCE, GHENT UNIVERSITY, GHENT, BELGIUM.
- 1970 Miro, M., De Padovani, I. O., Ramos, E., De Vega, V. R., Lowman, F. G.
The determination of stable scandium in plants, animals, sediments, sands, soils, rocks and minerals by neutron activation analysis.
Anal. Chim. Acta, **35**, No. 1, 54–60 (1966).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). PUERTO RICO NUCLEAR CENTER, MAYAGUEZ, PUERTO RICO.

1971 Souliotis, A. G., Grimanis, A. P., Tsanos, N. A.

Non-destructive neutron activation analysis for determining the chlorine content of paper pulp.

Talanta, **13**, No. 1, 158-161 (1966).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). NUCLEAR RESEARCH CENTRE, DEMOCRITUS, ATHENS, GREECE.

1972 Rakovic, M., Prochazkova, Z.

Accuracy and correctness of the neutron activation analysis of biological material.

Cas. Lek. Ces., **105**, No. 13, 332-335 (1966).

(CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH AND FRENCH SUMMARIES).

KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KU, PRAHA, CZECHOSLOVAKIA.

1973 Wyttenbach, A.

Determination of certain trace elements in water by activation analysis.

Chimia (Aarau), **20**, No. 4, 119-121 (1966).

(GERMAN) (ENGLISH SUMMARY).

EIDGENOSSISCHES INSTITUT FÜR REAKTORFORSCHUNG, WÜRENLINGEN, SWITZERLAND.

1974 Zeman, A., Ruzicka, J., Kuvik, V.

A new principle of activation analysis separations—X. Substoichiometric determination of traces of gallium.

Talanta, **13**, No. 2, 271-275 (1966).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF NUCLEAR CHEMISTRY, FACULTY OF TECHNICAL AND NUCLEAR PHYSICS, PRAGUE, BREHOVA, CZECHOSLOVAKIA.

1975 Haven, M. C., Haven, G. T., Dunn, A. L.

Simultaneous determination of calcium, copper, manganese, and magnesium in serum by neutron activation analysis.

Anal. Chem., **38**, No. 1, 141-143 (Jan. 1966).

(ENGLISH). VETERANS

ADMINISTRATION HOSPITAL, OMAHA, NEB.

1976 Rauscher, H. E.

Determination of sodium, arsenic, copper, and gallium in tin oxide by neutron activation.

Anal. Chem., **38**, No. 3, 519-520 (March 1966).

(ENGLISH). RESEARCH AND DEVELOPMENT LABORATORIES, CORNING GLASS WORKS, CORNING, N.Y.

1977 Howie, R. A., Molokhia, M. M., Smith, H.

Estimation of antimony in biological materials by neutron activation analysis.

Anal. Chem., **37**, No. 8, 1059-1061 (July 1965).

(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY OF GLASGOW, GLASGOW, W.2, U.K.

1978 Menon, M. P., Cuypers, M.

14-MeV. neutron activation analysis of rare earth elements in ores and minerals.

Anal. Chem., **37**, No. 8, 1057-1059 (July 1965).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

1979 Hunt, L. H., Miller, W. W.

Activation analysis for oxygen-18 isotope abundance utilizing recoil protons.

Anal. Chem., **37**, No. 10, 1269-1272 (Sept. 1965).

(ENGLISH). DEPARTMENT OF CHEMISTRY, THE PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA.

1980 Livingston, H. D., Smith, H.

Estimation of vanadium in biological material by neutron

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- activation analysis.**
Anal. Chem., **37**, No. 10, 1285–1287
 (Sept. 1965).
 (ENGLISH). DEPARTMENT OF FORENSIC
 MEDICINE, GLASGOW UNIVERSITY,
 GLASGOW, W.2.
- 1981 Mott, W. E., Orange, J. M.
**Precision activation analysis with
 14-million electron volt
 neutrons.**
Anal. Chem., **37**, No. 11, 1338–1342
 (Oct. 1965).
 (ENGLISH). GULF RESEARCH AND
 DEVELOPMENT COMPANY, PITTSBURGH,
 PA.
- 1982 Magno, P. J., Knowles, F. E.
**Determination of strontium in
 environmental media using neutron
 activation.**
Anal. Chem., **37**, No. 9, 1112–1115
 (August 1965).
 (ENGLISH). U.S. DEPARTMENT OF
 HEALTH, EDUCATION, AND WELFARE,
 NORTHEASTERN RADIOLOGICAL HEALTH
 LABORATORY, WINCHESTER, MASS.
- 1983 Dugain, F., Laverlochere, J.
**Determination of micro amounts of
 tantalum in niobium by using
 neutron activation and gamma
 spectrometry.**
Anal. Chem., **37**, No. 8, 998–1000
 (July 1965).
 (ENGLISH). PECHINEY CIE., L.R.M.,
 GRENOBLE, FRANCE.
- 1984 Isenhour, T. L., Morrison, G. H.
**Modulation technique for neutron
 capture gamma ray measurements in
 activation analysis.**
Anal. Chem., **38**, No. 2, 162–167
 (February 1966).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, CORNELL UNIVERSITY,
 ITHACA, N.Y.
- 1985 Isenhour, T. L., Morrison, G. H.
**Determination of boron by thermal
 neutron activation analysis using
 a modulation technique.**
Anal. Chem., **38**, No. 2, 167–169
 (February 1966).
 (ENGLISH). DEPARTMENT OF
- CHEMISTRY, CORNELL UNIVERSITY,
 ITHACA, N.Y.
- 2006 Qureshi, I. H.
**Radiochemical separations by
 amalgam exchange.**
 TID-18898, 71p. (May 1963).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 2036 Van Erkelens, P. C.
**Radiochemical separation of
 cobalt.**
Anal. Chim. Acta, **24**, 526–528
 (June 1961).
 (ENGLISH) (FRENCH AND GERMAN
 SUMMARIES). RESEARCH INSTITUTE
 FOR ANIMAL HUSBANDRY, SCHOONOORD,
 UTRECHT, THE NETHERLANDS.
- 2052 Tanaka, K.
**The Szilard–Chalmers reaction of
 several neutron-irradiated
 inorganic phosphorus compounds.**
Bull. Chem. Soc. Japan, **37**, No. 9,
 1346–1352 (September 1964).
 (ENGLISH). RADIOISOTOPE REDUCTION
 LABORATORY, JAPAN ATOMIC ENERGY
 RESEARCH INSTITUTE, TOKAI-MURA,
 IBARAKI-KEN, JAPAN.
- 2104 Mandler, J. W., Terrell, C. W.
**Utilization of high-yield
 americium-beryllium-curium
 neutron sources for in situ
 elemental analysis.**
Trans. Amer. Nucl. Soc., **10**, 30
 (June 1967).
 (ENGLISH). IIT RESEARCH
 INSTITUTE.
- 2107 Charyulu, V., Horn, M. K.
**Simulated neutron-activation
 spectra for geochemical analysis.**
Trans. Amer. Nucl. Soc., **10**, 31
 (June 1967).
 (ENGLISH). UNIVERSITY OF TULSA
 AND CITIES SERVICE OIL COMPANY.
- 2116 Yule, H. P.
**Activation analysis with smoother
 gamma-ray spectra.**
Trans. Amer. Nucl. Soc., **10**, 38

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(June 1967).

(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.

in human bile.

Trans. Amer. Nucl. Soc., **10**, 61
(June 1967).
(ENGLISH). VA HOSPITAL, HINES, ILL.

- 2121 Andersen, G. H., Gareis, F. J.
The possible detection of cystic fibrosis by means of the neutron activation analysis of fingernails.
Trans. Amer. Nucl. Soc., **10**, 57
(June 1967).
(ENGLISH). GENERAL ATOMICS, SAN DIEGO CALIF., AND U.S. NAVAL HOSPITAL, CAMP PENDLETON, CALIF.
- 2122 Twitty, B. L., Boback, M. W.
The determination of thorium in urine by thermal-neutron activation analysis.
Trans. Amer. Nucl. Soc., **10**, 57-58
(June 1967).
(ENGLISH). NATIONAL LEAD COMPANY OF OHIO, CINCINNATI, OHIO.
- 2123 Babb, A. L., Woodruff, G. L., Miller, W. P., Wilson, W. E., Polinsky, P. D., Decker, J. L.
A direct NAA method for determination of gold in serum and urine specimens of patients with rheumatoid arthritis.
Trans. Amer. Nucl. Soc., **10**, 58
(June 1967).
(ENGLISH). UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON AND NATIONAL INSTITUTES OF HEALTH, BETHESDA, MARYLAND.
- 2124 Strain, W. H., Rob, C. G., Pories, W. J., Hennessen, J. A., Montoya, J., Barker, W., Haskins, J.
Nuclear methods for the study of zinc metabolism.
Trans. Amer. Nucl. Soc., **10**, 60-61
(June 1967).
(ENGLISH). UNIVERSITY OF ROCHESTER, ROCHESTER, N.Y., AND USAF HOSPITAL WRIGHT-PATTERSON AFB, OHIO.
- 2125 Miller, E. B., Kanabrocki, E. L., Case, L. F., Graham, L., Fields, T., Oester, Y. T., Kaplan, E.
Nondialyzable manganese and copper
- 2126 Andersen, G. H.
The instrumental determination of fluorine in biological matrices by photonuclear activation analysis.
Trans. Amer. Nucl. Soc., **10**, 63
(June 1967).
(ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIF.
- 2129 Crambes, M. R., Nargolwalla, S. S., May, L.
Elemental analysis of proteins by 14-MeV neutron activation.
Trans. Amer. Nucl. Soc., **10**, 63-64
(June 1967).
(ENGLISH). NATIONAL BUREAU OF STANDARDS AND CATHOLIC UNIVERSITY, WASHINGTON, D.C.
- 2141 Smathers, J. B., Duffey, D., Lakshmanan, S.
Survey of chromatographic papers for interfering nuclides in activation analysis.
Trans. Amer. Nucl. Soc., **10**, 64-65
(June 1967).
(ENGLISH). WALTER REED INSTITUTE, WASHINGTON, D.C., AND UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.
- 2143 Jervis, R. E.
Present status of hair characterization studies by activation analysis.
Trans. Amer. Nucl. Soc., **10**, 66
(June 1967).
(ENGLISH). UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 2144 Lukens, H. R., Guinn, V. P.
Neutron activation analysis of bullet lead.
Trans. Amer. Nucl. Soc., **10**, 66-67
(June 1967).
(ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIF.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 2145 Thomas, C. C., Pillay, K. K. S.,
Sondel, J. A., Thomas, R. C.
**Activation analysis of gunpowder
residues containing rare-earth
tracers.**
Trans. Amer. Nucl. Soc., **10**, 67
(June 1967).
(ENGLISH). WNY-WRC, AND VA
HOSPITAL, BUFFALO, N.Y.
- 2146 Greenwood, R. C.
**Elemental analysis using the
neutron-capture gamma-ray
technique with a Ge(Li) detector.**
Trans. Amer. Nucl. Soc., **10**, 28-29
(June 1967).
(ENGLISH). IDAHO NUCLEAR
CORPORATION.
- 2147 Downs, W. E.
**A large-volume 6×10^8
thermal-neutron flux for
continuous precision analysis and
tracer production.**
Trans. Amer. Nucl. Soc., **10**, 83-84
(June 1967).
(ENGLISH). AECL-CP.
- 2148 Milenkovic, S., Dizdar, Z.,
Servian, J. L.
**Separation of ^{35}S , ^{32}P and ^{36}Cl on
alumina.**
*Bull. Inst. Nucl. Sci. Boris
Kidrich*, **12**, No. 257, 81-88
(October 1961).
(ENGLISH) (FRENCH AND RUSSIAN
SUMMARIES). HOT LABORATORY
DEPARTMENT, BELGRADE, YUGOSLAVIA.
- 2149 Milenkovic, S., Teofilovski, C.,
Dizdar, Z., Bircanin, L.
**A new procedure for the production
of carrier free ^{35}S .**
*Bull. Inst. Nucl. Sci. Boris
Kidrich*, **12**, No. 258, 89-95
(October 1961).
(ENGLISH) (FRENCH AND RUSSIAN
SUMMARIES). HOT LABORATORY
DEPARTMENT, BELGRADE, YUGOSLAVIA.
- 2153 Ruzicka, J., Stary, J.
**A new principle of activation
analysis separations. I. Theory
of substoichiometric
determinations.**
Talanta, **10**, 287-293 (March 1963).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF NUCLEAR
CHEMISTRY, FACULTY OF NUCLEAR
PHYSICS, PRAHA, BREHOVA,
CZECHOSLOVAKIA.
- 2154 Ruzicka, J., Stary, J., Zeman, A.
**A new principle of activation-anal-
ysis separations. IV.
Substoichiometric determination
of traces of silver.**
Talanta, **10**, 905-909 (August
1963).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
NUCLEAR CHEMISTRY, FACULTY OF
TECHNICAL AND NUCLEAR PHYSICS,
CHARLES UNIVERSITY, PRAGUE
BREHOVA, CZECHOSLOVAKIA.
- 2157 Bate, L. C., Wellwart, Y.,
Stokely, J. R.
**A rapid chemical separation for
radiomanganese.**
ORNL-TM-438, 11p. (December 6,
1962).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENN.
- 2251 Lukens, H. R., Mac Kenzie, J. K.
**Utilization of reactor pulses and
sub-second half lives in
neutron-activation analysis.**
Trans. Amer. Nucl. Soc., **10**, 85-86
(June 1967).
(ENGLISH). GENERAL ATOMICS, SAN
DIEGO, CALIF.
- 2252 Johnson, R. A.
**A versatile gamma-ray analyzer
system for activation analysis.**
Trans. Amer. Nucl. Soc., **10**, 86
(June 1967).
(ENGLISH). SHELL OIL COMPANY.
- 2254 England, L. D., Ashe, J. B.,
Williams, G. H., Morgan, I. L.,
Blake, K. R.
**Deuteron-induced prompt gamma-ray
analysis.**
Trans. Amer. Nucl. Soc., **10**, 86-87
(June 1967).
(ENGLISH). TEXAS NUCLEAR.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2259 Ricci, E., Hahn, R. L.
Simple method to calculate sensitivities and interferences vs bombardment energy in ^3He activation analysis.
Trans. Amer. Nucl. Soc., **10**, 87–88 (June 1967).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 2272 Lukens, H. R., Graber, F. M., Perry, K. I.
Elemental analysis by photonuclear excitation with 6- and 8-MeV bremsstrahlung.
Trans. Amer. Nucl. Soc., **10**, 90 (June 1967).
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIF.
- 2277 Peterson, S. F., Tera, F., Morrison, G. H.
Rapid matrix removal in activation analysis by isotopic ion exchange.
Trans. Amer. Nucl. Soc., **10**, 91 (June 1967).
 (ENGLISH). CORNELL UNIVERSITY, ITHACA, N.Y.
- 2280 Nargolwalla, S. S., Crambes, M. R., De Voe, J. R.
A technique for the evaluation of systematic errors in the activation analysis for oxygen with 14 MeV neutrons.
Anal. Chem., **40**, No. 4, 666–671 (1968).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 2283 Hamaguchi, H., Watanabe, T., Onuma, N., Tomura, K., Kuroda, R.
Neutron activation analysis of scandium.
Anal. Chim. Acta, **33**, 13–20 (1965).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY, TOKYO KYOIKU UNIVERSITY, KOISHIKAWA, TOKYO, JAPAN.
- 2296 Kiesl, W., Seitner, H., Kluger, F., Hecht, F.
Determination of trace elements by chemical analysis and neutron activation in meteorites of the collection of the Viennese Museum of Natural History.
Monatsh. Chem., **98**, No. 3, 972–992 (1967).
 (ENGLISH). ANALYTICAL INSTITUTE OF THE UNIVERSITY OF VIENNA AND THE REACTOR CENTER SEIBERSDORF OF THE OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE GES.M.B.H., AUSTRIA.
- 2297 Fukao, Y., Miyoshi, K., Mizuguchi, H.
Recent development of analytical instruments using radiation.
Toshiba Rebiyu, **22**, No. 5, 582–591 (May 1967).
 (JAPANESE) (ENGLISH SUMMARY). SCIENTIFIC INSTRUMENTS ENGINEERING DEPARTMENT, TOKYO SHIBAURA ELECTRIC CO., LTD., TOKYO, JAPAN.
- 2298 Engelmann, C.
Use of gamma-photons and charged particles for determining very low traces of B,C,N, and O.
Bull. Soc. Chim. France, No. 7, 2316–2320 (July 1967).
 (FRENCH). DEPARTEMENT DE METALLURGIE, SERVICE DE RECHERCHES DE METALLURGIE PHYSIQUE ET CHIMIQUE, CEN, SACLAY, FRANCE.
- 2303 Khristianov, V. K.
Photoneutron method of isotopic analysis of hydrogen in natural waters.
Isotopenpraxis, **3**, 235–237 (June 1967).
 (RUSSIAN). INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, MOSCOW, RUSSIA.
- 2306 Glazunov, M. P., Kodochigov, P. N., Orlov, Y. L.
Determination of the impurities and investigation on their distribution in diamond crystals of various deposits using neutron activation analysis.
Isotopenpraxis, **3**, 231–235 (June 1967).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (RUSSIAN). INSTITUTE OF PHYSICAL CHEMISTRY, MOSCOW, RUSSIA.
- 2308 Wester, P. O.
Trace elements in human myocardial infarction determined by neutron activation analysis.
 AE-188, 35p. (May 1965).
 (ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.
- 2317 Meinke, W. W.
Handling and separation of short-lived radioisotopes from research reactors.
Production and Use of Short-Lived Radioisotopes from Reactors, Vol. I, 93-104, Vienna, International Atomic Energy Agency (1963).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICH.
- 2318 Rai, L., Dayal, N., Bhatnagar, A. S.
Assay of beryl by photoneutron method.
Indian J. Pure Appl. Phys., **5**, 183-184 (May 1967).
 (ENGLISH). ATOMIC MINERALS DIVISION, DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA, NEW DELHI, INDIA.
- 2323 Prickartz, R.
Calcium activation in the determination of the distribution of cement in concrete.
Bauingenieur, **41**, 338-339 (1966).
 (GERMAN). AACHEN, GERMANY.
- 2327 Falcoff, R., May, S., Piccot, D.
Determination of all the rare earths by neutron activation analysis. Applications to some nuclear materials.
Bull. Soc. Chim. Fr., No. 9, 3257-3266 (1967).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE SACLAY, DEPARTEMENT DE PHYSICO-CHIMIE, SERVICE DE PHYSICO CHIMIE APPLIQUEE, FRANCE.
- 2333 Feuerstein, H.
Determination of copper, silver, gold, zinc, and arsenic in human skin by neutron activation analysis.
Z. Anal. Chem., **232**, No. 3, 196-197 (1967).
 (GERMAN). GESELLSCHAFT FUR KERNFORSCHUNG M.B.H., KARLSRUHE, GERMANY.
- 2335 Albert, D., Schumann, P.
Determination of a reference spectrum in the internal reflector of the Rossendorf annular core reactor RRR by activation foils.
Kernenergie, **10**, No. 10, 306-308 (1967).
 (GERMAN). ZENTRALINSTITUT FUR KERNFORSCHUNG, BEREICH REAKTORTECHNIK, ROSSENDORF BEI DRESDEN, GERMANY.
- 2337 Pelekis, Z. E., Pelekis, L. L., Smirnov, V. I., Taure, I. Y.
Neutron activation method for measuring the wear of electric train gear wheels.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., **2**, 121-126 (1967).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUTE OF PHYSICS, RIGA, RUSSIA.
- 2338 Smales, A. A.
The determination of trace elements in meteorites.
Lab. Pract., **16**, 701-704, 713 (June 1967).
 (ENGLISH). ANALYTICAL SCIENCES DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND.
- 2340 Hamaguchi, H., Tomura, K., Onuma, N., Higuchi, H., Suda, K.
Determination of indium in rocks by neutron activation analysis.
Bunseki Kagaku, **16**, No. 11, 1233-1238 (1967).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, UNIVERSITY OF TOKYO, BUNKYO-KU, TOKYO, JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2347 Gunther, F. A., Spenger, R. E.
Apparent organobromine compounds in higher plants by neutron-activation analysis.
Bull. Environ. Contam. Toxicol., **1**, 121-126 (July-August 1966).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, RIVERSIDE, AND CHEMISTRY DEPARTMENT, CALIFORNIA STATE COLLEGE, FULLERTON, CALIF. and planetary surfaces with pulsed 14-MeV neutron-produced thermal-neutron capture gamma rays.
Trans. Amer. Nucl. Soc., **10**, 27 (June 1967).
 (ENGLISH). ILLINOIS INSTITUTE OF TECHNOLOGY RESEARCH INSTITUTE, CHICAGO, ILL.
- 2348 Guinn, V. P., Andersen, G. H.
Photonuclear activation analysis of geologic samples using the LINAC.
Trans. Amer. Nucl. Soc., **10**, 23-24 (June 1967).
 (ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIF.
- 2350 Graber, F. M., Lukens, H. R., Mac Kenzie, J. K.
The application of lithium-drifted germanium detectors to neutron-activation analysis—non-destructive determination of Re and Eu in ores.
Trans. Amer. Nucl. Soc., **10**, 26 (June 1967).
 (ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIF.
- 2354 Vincent, H. A., Volborth, A.
High-precision determination of silicon in geological samples by fast-neutron-activation analysis.
Trans. Amer. Nucl. Soc., **10**, 26 (June 1967).
 (ENGLISH). UNIVERSITY OF NEVADA.
- 2358 Krivanek, M., Kukula, F., Sluneco, J.
Substoichiometric determination of copper in high-purity metals by activation analysis.
Talanta, **12**, No. 8, 721-726 (August 1965).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE FOR NUCLEAR RESEARCH, CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, CZECHOSLOVAKIA.
- 2364 Reed, J. H., Mandler, J. W., Terrell, C. W.
Compositional analysis of lunar
- 2365 Menon, M. P.
Sodium separation.
 TEES-2671-4, VI-1-VI-12 (January 1, 1965).
 (ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2369 Negin, V. R., Zamyatina, V. N., Presnyakova, M. A., Chikisheva, L. A.
The determination of the sum of rare-earth elements, manganese, nickel, copper, antimony, arsenic, molybdenum, cadmium and gold in lithium compounds by the radioactivation method.
Radiochemistry, USSR, **3**, Nos. 3-4, 255-259 (1961).
 (ENGLISH TRANSLATION). RUSSIA.
- 2376 Osborne, J. F., Larrabee, G. B., Harrap, V.
Determination of sodium in ultrapure silicon and silicon dioxide films by activation analysis.
Anal. Chem., **39**, 1144-1148 (August 1967).
 (ENGLISH). TEXAS INSTRUMENTS INC., DALLAS, TEXAS.
- 2379 Wilkniss, P. E.
Radioisotopes in propellant and explosives technology.
Atompraxis, **13**, 176-180 (April-May 1967).
 (ENGLISH). RESEARCH AND DEVELOPMENT DEPARTMENT, U.S. NAVAL PROPELLANT PLANT, INDIAN HEAD, MARYLAND.
- 2381 Revel, G., Albert, P.
Study of the possibilities of determining oxygen in zirconium, molybdenum, hafnium, and tungsten

ACTIVATION ANALYSIS—BIBLIOGRAPHY

by irradiation with ^3He and ^4He particles.

J. Nucl. Mater., **25**, 87–92 (1968).

(FRENCH) (ENGLISH AND GERMAN SUMMARIES). CNRS, VITRY-SUR-SEINE, FRANCE.

2382 Wahl, W. H., Kramer, H. H.

Neutron-activation analysis.

Sci. Amer., **216**, No. 4, 68–72, 78–80, 82 (April 1967).

(ENGLISH). USA.

2383 Guinn, V. P.

Neutron-activation analysis of metals and semiconductors with a nuclear reactor.

Materials Science and Technology for Advanced Applications, Vol.

II, 143–165, Golden Gate Metals Conference, February 13–15, 1964, American Society of Metals, Berkeley, California (1964).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

2384 Tsuji, H.

Radioactivation analysis of nitrogen and phosphorus with 14 MeV neutrons.

Bunseki Kagaku, **15**, No. 3, 263–268 (March 1966).

(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, KOBE-SHI, JAPAN.

2385 Dutov, A. G., Lobanov, E. M.,

Leushkina, G. V., Matveeva, N. P.

Determining lithium by means of the reactions $^6\text{Li}(n,\alpha)^3\text{H}$ and $^{16}\text{O}(t,n)^{18}\text{F}$.

Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.-Mat. Nauk, No. 6, 76–78 (1966).

(RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT, RUSSIA.

2386 Simkova, M., Pinkas, V.

Determination of impurities in silicon by activation analysis.

Isotopenpraxis, **3**, 88–91 (March 1967).

(GERMAN). INSTITUT FÜR

KERNFORSCHUNG, REZ, PRAGUE CZECHOSLOVAKIA.

2387 Rakovic, M., Prouza, Z.

Application of the group method in the analysis of experimental decay curves.

Atompraxis, **13**, 361–362 (August 1967).

(ENGLISH). DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR MEDICINE OF THE MEDICAL FACULTY, CHARLES UNIVERSITY, PRAGUE, AND THE VETERINARY RESEARCH CENTER, PRAGUE, CZECHOSLOVAKIA.

2391 Oak Ridge National Laboratory

Chemical separation of isotopes. ORNL-3320, 22–29.

(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

2403 Samsahl, K.

Radiochemical method for determination of arsenic, bromine, mercury, antimony, and selenium in neutron-irradiated biological material.

Anal. Chem., **39**, 1480–1483 (October 1967).

(ENGLISH). AB ATOMENERGI, STOCKHOLM, SWEDEN.

2409 Auchapt, J. M.

Determination of radioelements by autoradiographie densitometry. CEA-R-3269, 37p. (June 1967).

(FRENCH) (ENGLISH SUMMARY). COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE DE PRODUCTION DE PLUTONIUM DE MARCOULE, FRANCE.

2410 Parker, C. V., Martin, T. C., Blake, K. R., Morgan, I. L.

Continuous nuclear analysis of bulk material.

Mater. Eval., **25**, 214–220 (September 1967).

(ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.

2418 Ishii, D., Mori, H., Hirose, Y.

Determination of oxygen in ferrosilicon by 14 MeV neutron

ACTIVATION ANALYSIS—ACCESSION NUMBERS

activation analysis. Application of the gold as internal standard method.

Bunseki Kagaku, **16**, No. 12, 1370-1373 (1967).

(JAPANESE) (ENGLISH SUMMARY). FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, CHIKUSA-KU, NAGOYA-SHI, JAPAN.

Determination of rhenium in molybdenites by neutron activation analysis.

Anal. Chim. Acta, **40**, No. 3, 373-378 (1968).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.

2422 Bergner, P. E. E., Lushbaugh, C. C., Anderson, E. B.
Compartments, pools, and spaces in medical physiology.
CONF-661010, 521p. (August 1967).
(ENGLISH). USAEC DIVISION OF TECHNICAL INFORMATION EXTENSION, OAK RIDGE, TENNESSEE.

2433 England, E. A. M., Hornsby, J. B., Jones, W. T., Terrey, D. R.
Precise, non-destructive determination of fluorine by 14 MeV activation analysis.
Anal. Chim. Acta, **40**, No. 3, 365-371 (1968).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKSHIRE, ENGLAND.

2426 Wey, M. T.
Determination of contents of manganese and copper during the life cycle of chlorella cells by neutron activation analysis.
Hua Hsueh, No. 4, 165-169 (1964).
(CHINESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, TAIWAN PROVINCIAL NORMAL UNIVERSITY, TAIPEI, TAIWAN, CHINA.

2434 Hahn, K. J., Tuma, D. J., Quaife, M. A.
Solvent extraction and determination of magnesium in biological materials. Comparative analysis by neutron activation, atomic absorption spectrophotometric, and fluorometric techniques.
Trans. Amer. Nucl. Soc., **10**, 62 (June 1967).
(ENGLISH). VA HOSPITAL, OMAHA, NEBRASKA.

2429 Pierce, T. B., Peck, P. F., Cuff, D. R. A.
Application of inelastic proton scattering to the rapid determination of silicon in steels.
Anal. Chim. Acta, **39**, 433-436 (December 1967).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL SCIENCES DIVISION, AERE, HARWELL, DIDCOT, BERKS., ENGLAND.

2437 Wakita, H., Nagasawa, H., Uyeda, S., Kuno, H.
Uranium and thorium contents in ultra-basic rocks.
Earth Planet. Sci. Lett., **2**, 377-381 (July 1967).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, HONKOMAGOME, BUNKYO-KU, GAKUSHUIN UNIVERSITY, MEJIRO, AND UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.

2430 De Neve, R., De Soete, D., Hoste, J.
Non-destructive activation analysis of trace impurities in germanium.
Anal. Chim. Acta, **40**, No. 3, 379-386 (1968).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.

2440 Hamada, S., Torizuka, K., Hamamoto, K., Nakagawa, J., Mori, T., Morita, R., Nakagawa, T., Konishi, J., Miyake, T., Fukase, M.
Determination of protein-bound iodine (PBI) in sera from patients with various thyroid

2431 Boyadjov, I., De Neve, R., Hoste, J.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- diseases by neutron activation analysis.
Radioisotopes (Tokyo), **16**, 14–18 (January 1967).
(ENGLISH) (JAPANESE SUMMARY). SECOND DIVISION OF INTERNAL MEDICINE AND CENTRAL CLINICAL RADIOISOTOPE DIVISION, KYOTO UNIVERSITY MEDICAL SCHOOL, KYOTO, JAPAN.
- 2441 Mc Gonnagle, W. J.
Nondestructive reactor fuel assay.
WASH-1076, 96–114.
(ENGLISH). ASSOCIATED MIDWEST UNIVERSITIES, ARGONNE, ILLINOIS.
- 2444 Jaskolska, H., Minczewski, J.
Determination of gallium and indium by the neutron activation method.
PAN-205/VIII, 17p. (December 1960).
(ENGLISH) (POLISH AND RUSSIAN SUMMARIES). POLISH ACADEMY OF SCIENCES, INSTITUTE OF NUCLEAR RESEARCH, POLAND.
- 2445 Hahn, K. J., Tuma, D. J., Quaife, M. A.
Solvent extraction and determination of magnesium in biological materials.
Anal. Chem., **39**, 1169–1171 (August 1967).
(ENGLISH). SPECIAL LABORATORY OF NUCLEAR MEDICINE AND BIOLOGY, VETERANS ADMINISTRATION HOSPITAL, OMAHA, NEBRASKA.
- 2447 Alian, A., Shabana, R.
Neutron activation analysis by standard addition and solvent extraction. Determination of some trace elements in granite and diabase rocks.
Microchem. J., **12**, No. 3, 427–433 (1967).
(ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT, CAIRO, U.A.R.
- 2450 Schonfeld, E.
Pulse-height analysis of gamma-ray spectra of samples containing very low levels of radioactivity.
Nucl. Appl., **3**, 635–636 (October 1967).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 2452 Yule, H. P.
Instrumental reactor neutron activation analysis studies on 72 elements in a refined hydrocarbon.
Nucl. Appl., **3**, 637–640 (October 1967).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 2453 Volborth, A., Vincent, H. A.
Determination of oxygen in USGS rock standards by fast-neutron activation.
Nucl. Appl., **3**, 701–707 (November 1967).
(ENGLISH). UNIVERSITY OF NEVADA, RENO, NEVADA.
- 2455 Betteridge, D.
The determination of selenium in hair by neutron-activation analysis.
AERE-R-4881, 15p. (March 1965).
(ENGLISH). CHEMISTRY DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.
- 2464 Kubota, M., Tokunaga, O., Nakamura, Y.
Detection of Sb and Ba in gunpowder residues by neutron activation analysis.
Kagaku Keisatsu Kenkyusho Hokoku, **19**, 261–268 (December 1966).
(JAPANESE) (ENGLISH SUMMARY). NATIONAL RESEARCH INSTITUTE OF POLICE SCIENCES, JAPAN.
- 2473 Iya, V. K., Mani, R. S., Chowdhary, S. Y.
Preparation of ^{51}Cr of high specific activity for medical use.
Proceedings of the Nuclear and Radiation Chemistry Symposium, 1966, 244–249, Bombay Department

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- of Atomic Energy (1966).
(ENGLISH). ISOTOPE DIVISION,
ATOMIC ENERGY ESTABLISHMENT
TROMBAY, BOMBAY, INDIA.
- 2474 Lavrukhina, A. K., Kolesov, G. M.,
Kalicheva, I. S., Akolzina, L. D.
**Activation determination of
cerium, europium, scandium,
barium, uranium and phosphorus in
dark and light varieties of the
chondrites Kunashak and
Pervomaiski Poselok.**
Geokhimiya, No. 3, 281-290 (1966).
(RUSSIAN) (ENGLISH SUMMARY).
V.I. VERNADSKY INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES,
USSR, MOSCOW, RUSSIA.
- 2480 Voigt, A. F., Jewett, G. L.,
Jacobson, E. C., Malaby, K. L.,
Woods, J. D.
**The determination of trace amounts
of tantalum and tungsten in
metals.**
IS-1117, 17p. (March 1, 1965).
(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.
- 2481 Monnier, D., Haerdi, W., Loepfe,
E.
**Determination of manganese in
nylon by thermal neutron
activation.**
Mitt. Gebiete Lebensm. Hyg., 56,
No. 4, 292-299 (1965).
(FRENCH). FRANCE.
- 2493 Armstrong, A. A., Bogdan, J. F.,
Chudgar, A. J.
**Measurement of fiber blend
variability by activation
analysis.**
*Modern Trends in Activation
Analysis*, 9-12, Proceedings 1965
International Conference, April
19-22, 1965, College Station,
Texas (1965).
(ENGLISH). NORTH CAROLINA STATE
COLLEGE, RALEIGH, N.C.
- 2494 Wolberg, J. R.
**An analysis of the technique of
least squares as related to
gamma-ray scintillation
spectroscopy.**
*Modern Trends in Activation
Analysis*, 13-21, Proceedings 1965
International Conference, April
19-22, 1965, College Station,
Texas (1965).
(ENGLISH). ISRAEL INSTITUTE OF
TECHNOLOGY, DEPARTMENT OF NUCLEAR
SCIENCE, HAIFA, ISRAEL.
- 2495 Voigt, A. F., Abu-Samra, A.
**Analysis of a Damascus steel by
neutron and gamma activation.**
*Modern Trends in Activation
Analysis*, 22-25, Proceedings 1965
International Conference, April
19-22, 1965, College Station,
Texas (1965).
(ENGLISH). DEPARTMENTS OF
CHEMISTRY AND NUCLEAR
ENGINEERING, IOWA STATE
UNIVERSITY, AMES, IOWA.
- 2496 Voigt, A. F., Jewett, G. L.,
Jacobson, E. C., Malaby, K. L.,
Woods, J. D.
**The determination of trace amounts
of tantalum and tungsten in
metals.**
*Modern Trends in Activation
Analysis*, 26-30, Proceedings 1965
International Conference, April
19-22, 1965, College Station,
Texas (1965).
(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.
- 2497 De Soete, D., De Neve, R., Hoste,
J.
**The determination of traces of
arsenic in germanium by neutron
activation analysis.**
*Modern Trends in Activation
Analysis*, 31-38, Proceedings 1965
International Conference, April
19-22, 1965, College Station,
Texas (1965).
(ENGLISH). LABORATORY FOR
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, GHENT, BELGIUM.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 2498 Broadhead, K. G., Shanks, D. E.,
Heady, H. H.
**Fast-neutron activation analysis
in molten salt electrometallurgic-
al research.**
*Modern Trends in Activation
Analysis*, 39–43, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). RENO METALLURGY
RESEARCH CENTER, BUREAU OF MINES,
U.S. DEPARTMENT OF THE INTERIOR,
RENO, NEVADA.
- 2499 Wahl, W. H., Molinski, V. J.,
Arino, H.
**Rapid radiochemical separation
procedures for activation
analysis indicators.**
*Modern Trends in Activation
Analysis*, 44–47, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). UNION CARBIDE
CORPORATION, MINING AND METALS
DIVISION, TUXEDO, N.Y.
- 2500 Perkins, R. W., Robertson, D. E.
**Selective and sensitive analysis
of activation products by
multidimensional gamma-ray
spectrometry.**
*Modern Trends in Activation
Analysis*, 48–57, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). CHEMISTRY DEPARTMENT,
BATTELLE-NORTHWEST LABORATORIES,
RICHLAND, WASHINGTON.
- 2501 Bowen, H. J. M.
**The production of homogeneous
biological material for
interlaboratory comparison of
elementary analyses.**
*Modern Trends in Activation
Analysis*, 58–60, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). UNIVERSITY OF
READING, READING, ENGLAND.
- 2502 Kawashima, T.
**Determination of impurities in
high-purity niobium and tantalum
by radioactivation analysis.**
*Modern Trends in Activation
Analysis*, 61–65, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). RADIATION
LABORATORIES, ELECTRICAL
COMMUNICATION LABORATORY, TOKAI,
IBARAKI, JAPAN.
- 2503 Tomlinson, R. H., Dickson, R. C.
**Determination of selenium in human
tissues by means of activation
analysis.**
*Modern Trends in Activation
Analysis*, 66–70, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). MCMASTER UNIVERSITY,
HAMILTON, ONTARIO, CANADA.
- 2504 Martin, T. C., Morgan, I. L.,
Hall, J. D.
Nuclear analysis system for coal.
*Modern Trends in Activation
Analysis*, 71–75, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.
- 2505 Blake, K. R., Martin, T. C.,
Morgan, I. L., Houston, C. D.
**The measurement of surface
contamination of high-purity
beryllium samples.**
*Modern Trends in Activation
Analysis*, 76–81, Proceedings 1965
International Conference, April
19–22, 1965, College Station,
Texas (1965).
(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.
- 2506 Vogt, J. R., Ehmann, W. D.
**The nondestructive determination
of silicon and oxygen in
meteorites by fast-neutron
activation analysis.**
Modern Trends in Activation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Analysis, 82–85, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

2507 Gray, A. L., Metcalf, A.

Industrial applications of neutron activation.

Modern Trends in Activation

Analysis, 86–90, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). PLESSEY-UK LIMITED, HANTS., ENGLAND.

2508 Plantin, L. O.

Studies of the gamma spectrum of neutron irradiated blood.

Modern Trends in Activation

Analysis, 91–96, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). KING GUSTAF V RESEARCH INSTITUTE, STOCKHOLM, SWEDEN.

2509 Filby, R. H., Ball, T. K.

Zinc and bromine in some meteorites by neutron activation analysis.

Modern Trends in Activation

Analysis, 97–101, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.

2510 Steele, E. L.

Variable-energy neutron activation analysis.

Modern Trends in Activation

Analysis, 102–106, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

2511 Mark, H. B., Berlandi, F. J., Vassos, B. H., Neal, T. E.

A new approach to neutron activation analysis through micro and submicro electroseparation techniques.

Modern Trends in Activation

Analysis, 107–114, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

2512 Mott, W. E., Orange, J. M.

Precision analysis with 14 MeV neutrons.

Modern Trends in Activation

Analysis, 115–119, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). GULF RESEARCH AND DEVELOPMENT COMPANY, PITTSBURGH, PA.

2513 Bock-Werthmann, W., Schulze, W.

A paper-chromatographic separation method for activation analysis.

Modern Trends in Activation

Analysis, 120–122, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). HAHN-MEITNER INSTITUT FÜR KERNFORSCHUNG, SEKTOR KERNCHEMIE, BERLIN-WANNSEE, GERMANY.

2514 Isenhour, T. L., Evans, C. A., Morrison, G. H.

Computer programs to optimize times of irradiation and decay in multielement activation analysis.

Modern Trends in Activation

Analysis, 123–128, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). DEPARTMENT OF CHEMISTRY, CORNELL UNIVERSITY, ITHACA, N.Y.

2515 Gijbels, R., Hoste, J.

Neutron activation analysis of

ACTIVATION ANALYSIS—BIBLIOGRAPHY

iridium in osmium and experimental study of the second-order reaction.

Modern Trends in Activation Analysis, 129–133, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, GHENT, BELGIUM.

2516 Wahlgren, M. A., Wing, J., Hines, J.

A fast-sum coincidence spectrometer and sensitivity compilation for activation analysis.

Modern Trends in Activation Analysis, 134–139, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.

2517 Bryan, D. E., Guinn, V. P., Settle, D. M.

New developments in the application of neutron activation analysis to problems in scientific crime detection.

Modern Trends in Activation Analysis, 140–145, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

2518 Iddings, F. A.

Liquid and plastic scintillation counting for oxygen by neutron activation analysis.

Modern Trends in Activation Analysis, 146–148, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ESSO RESEARCH LABORATORIES, HUMBLE OIL AND REFINING CO., BATON ROUGE, LOUISIANA.

2519 Iddings, F. A., Wade, J. T.

A rapid activation analysis method for sodium in organic materials.

Modern Trends in Activation Analysis, 149–151, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ESSO RESEARCH LABORATORIES, HUMBLE OIL AND REFINING CO., BATON ROUGE, LOUISIANA.

2520 Menon, M. P., Wainerdi, R. E.

The removal of radiosodium interference in neutron activation analysis.

Modern Trends in Activation Analysis, 152–156, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

2521 Cohan, M. D.

Activation analysis applications of an on-line digital computer.

Modern Trends in Activation Analysis, 157–158, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE, NATIONAL NAVAL MEDICAL CENTER, BETHESDA, MARYLAND.

2522 Burnett, W. T., Cohan, M. D.

The design of apparatus for postirradiation chemical treatments in activation analysis.

Modern Trends in Activation Analysis, 159–163, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE, NATIONAL NAVAL MEDICAL CENTER, BETHESDA, MARYLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2523 Moiseev, V. V., Kuznetsov, R. A., Kalinin, A. I.
The radioactivation analysis of silicon and silicon compounds with the successive use of ion-exchange chromatography.
Modern Trends in Activation Analysis, 164-168, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). INSTITUTE OF SILICATE CHEMISTRY OF THE ACADEMY OF SCIENCES, LENINGRAD, USSR
- 2524 Walker, L. J., Eggebraaten, V. L.
Correlation of physical properties of rubber with nitrogen content by means of neutron-activation analysis.
Modern Trends in Activation Analysis, 169-171, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). AERO-SPACE DIVISION, THE BOEING COMPANY, SEATTLE, WASHINGTON.
- 2525 Gibbons, D., Lawson, D.
The determination of indium and thallium in zinc and zinc salts.
Modern Trends in Activation Analysis, 172-174, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WANTAGE, BERKSHIRE, ENGLAND.
- 2526 Wood, J. D. L. H., Downton, D. W., Bakes, J. M.
A fast-neutron activation analysis system with industrial applications.
Modern Trends in Activation Analysis, 175-181, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). SERVICES ELECTRONICS RESEARCH LABORATORY, BALDOCK, HERTFORDSHIRE, ENGLAND.
- 2527 Bounden, J. E., Lomer, P. D., Wood, J. D. L. H.
High-output neutron tubes.
Modern Trends in Activation Analysis, 182-185, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). SERVICES ELECTRONICS RESEARCH LABORATORY, BALDOCK, HERTFORDSHIRE, ENGLAND.
- 2528 Smales, A. A.
The place of activation analysis in a research establishment dealing with pure materials.
Modern Trends in Activation Analysis, 186-188, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, HARWELL, DIDCOT, BERKSHIRE, ENGLAND.
- 2529 Lam, C. F., Wainerdi, R. E.
A CsI-NaI dual-crystal Compton reduction detector.
Modern Trends in Activation Analysis, 189-193, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2530 Lussie, W. G., Brownlee, J. L.
The measurement and utilization of neutron-capture gamma radiation.
Modern Trends in Activation Analysis, 194-199, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). NUCLEAR ENGINEERING PROGRAM AND DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.
- 2531 Ricci, E., Hahn, R. L., Strain, J. E., Dyer, F. F.
He-3 activation analysis.
Modern Trends in Activation

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Analysis, 200–205, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

2532 Peisach, M., Poole, D. O.

**The use of semiconductor detectors
for surface analysis by elastic
scattering of accelerated charged
particles.**

*Modern Trends in Activation
Analysis*, 206–211, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). SOUTHERN UNIVERSITIES
NUCLEAR INSTITUTE, FAURE, C.P.,
SOUTH AFRICA.

2533 Emery, J. F., Dyer, F. F.,

Alexander, T., Schonfeld, E.

**The evaluation of computer
programs for gamma-ray
spectrometry in activation
analysis.**

*Modern Trends in Activation
Analysis*, 212–215, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

2534 Bird, E. D., Ellis, W. H., Thomas,
W. C.

**Activation analysis of urine for
trace elements.**

*Modern Trends in Activation
Analysis*, 216–219, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). DEPARTMENTS OF
MEDICINE AND NUCLEAR ENGINEERING,
UNIVERSITY OF FLORIDA,
GAINESVILLE, FLORIDA.

2535 Kanabrocki, E. L., Case, L. F.,
Fields, T., Graham, L., Miller,
E. B., Oester, Y. T., Kaplan, E.
**Manganese and copper content in
human-body fluids.**

*Modern Trends in Activation
Analysis*, 220–224, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). RADIOISOTOPE SERVICE,
VETERANS ADMINISTRATION HOSPITAL,
HINES, ILLINOIS.

2536 De Voe, J. R., Smith, G. W.

**Activation-analysis program and
facilities at the National Bureau
of Standards.**

*Modern Trends in Activation
Analysis*, 225–229, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). RADIOCHEMICAL
ANALYSIS SECTION, ANALYTICAL
CHEMISTRY DIVISION, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

2537 Becker, D. A., Smith, G. W.

**Determination of trace amounts of
tellurium in standard reference
materials by neutron-activation
analysis.**

*Modern Trends in Activation
Analysis*, 230–235, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). RADIOCHEMICAL
ANALYSIS SECTION, ANALYTICAL
CHEMISTRY DIVISION, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

2538 Shideler, R. W.

**Interfacing a teletypewriter to
nuclear instruments used for
computer-coupled activation
analysis.**

*Modern Trends in Activation
Analysis*, 236–241, Proceedings
1965 International Conference,
April 19–22, 1965, College
Station, Texas (1965).

(ENGLISH). RADIOCHEMICAL
ANALYSIS SECTION, ANALYTICAL
CHEMISTRY DIVISION, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 2539 Keenan, R. G., Marcus, J. H., De Voe, J. R.
Simultaneous determination of copper and zinc in human lung tissue by neutron-activation analysis.
Modern Trends in Activation Analysis, 243–247, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). RADIOCHEMICAL ANALYSIS SECTION, ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 2540 Ellis, W. H., Fritz, G. J., Han, I. G.
Neutron-activation analysis of O-18 with chemical separation.
Modern Trends in Activation Analysis, 248–252, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). DEPARTMENTS OF NUCLEAR ENGINEERING AND BOTANY, UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.
- 2541 Cali, J. P., Weiner, J. R., Rocco, G. G.
The accuracy of radioactivation analysis.
Modern Trends in Activation Analysis, 253–258, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, OFFICE OF AEROSPACE RESEARCH, L.G. HANSCOM FIELD, BEDFORD, MASS.
- 2542 Wood, D. E., Pasztor, L. C.
A comparison of neutron-activation analysis and vacuum-fusion analysis of the oxygen content of steel.
Modern Trends in Activation Analysis, 259–264, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 2543 Aumann, D. C., Born, H. J.
The determination of some light elements by secondary reactions.
Modern Trends in Activation Analysis, 265–271, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). INSTITUT FÜR RADIOCHEMIE, TECHNISCHE HOCHSCHULE, MÜNCHEN, GERMANY.
- 2544 Schulze, W.
Application of coincidence methods in activation analysis.
Modern Trends in Activation Analysis, 272–278, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). FREE UNIVERSITY OF BERLIN, BERLIN, GERMANY.
- 2545 Schonfeld, E.
Improved accuracy in determination of radionuclide concentrations in solutions containing fast-decaying isotopes by least-squares resolution of the gamma-ray spectra.
Modern Trends in Activation Analysis, 279–283, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 2546 Keisch, B., Koch, R. C., Levine, A. S.
Determination of biospheric levels of ^{129}I by neutron-activation analysis.
Modern Trends in Activation Analysis, 284–290, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).
 (ENGLISH). NUCLEAR SCIENCE AND ENGINEERING CORPORATION, PITTSBURGH, PA.
- 2547 Euler, B. A., Phelps, P. L., Covell, D. F.
A fast-punched card readout system for pulse-height analyzers.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Modern Trends in Activation Analysis, 291–294, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY, SAN FRANCISCO, CALIF.

2548 Perkons, A. K., Jervis, R. E.

Hair individualization studies.

Modern Trends in Activation Analysis, 295–303, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, AND ATTORNEY GENERALS LABORATORY, TORONTO, CANADA.

2549 Byrne, J. T., Illsley, C. T.,
Price, H. J.

An automatic system for the determination of oxygen in beryllium metal components.

Modern Trends in Activation Analysis, 304–310, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965)

(ENGLISH). ROCKY FLATS DIVISION, DOW CHEMICAL COMPANY, GOLDEN, COLORADO.

2550 Albert, P., Cuyper, M., Lesbats,
A., Mignonsin, E. P.

New developments in the systematic analysis of high purity metals and especially of aluminum, copper and zirconium.

Modern Trends in Activation Analysis, 310–315, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965)

(ENGLISH). LABORATORY OF ANALYTICAL RADIOCHEMISTRY OF THE CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, CNRS, VITRY, FRANCE.

2551 Kim, C. K., Meinke, W. W.

Simple and rapid magnesium

determination in biological samples by neutron activation analysis.

Modern Trends in Activation Analysis, 316–318, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965)

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

2552 Kline, J. R., Brar, S. S.,
Gustafson, P. F., Rust, R. H.

Use of neutron activation analysis to determine biological availability of copper in soils and for nondestructive analysis of soils.

Modern Trends in Activation Analysis, 319–323, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). DIVISION OF BIOLOGICAL AND MEDICAL RESEARCH, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.

2553 Fuller, R. K., O Connor, J. D.,
Lukens, H. R., Fleishman, D. M.
Neutron activation analysis for plutonium mixed in soil.

Modern Trends in Activation Analysis, 324–326, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). U.S. NAVAL RADIOLOGICAL DEFENSE LABORATORY, SAN FRANCISCO, CALIF.

2554 Kruger, P., Linstedt, K. D.

Electron activation analysis for the determination of carbon in submicrogram quantities of virus.

Modern Trends in Activation Analysis, 327–330, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965).

(ENGLISH). CIVIL ENGINEERING DEPARTMENT, STANFORD UNIVERSITY, STANFORD, CALIF.

ACTIVATION ANALYSIS - ACCESSION NUMBERS

- 2555 Engelmann, C., Cabane, G.
Activation with photons or charged particles for the analysis of nonmetallic elements.
Modern Trends in Activation Analysis, 331-336, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). CENTRE D'ETUDES NUCLEAIRES DE SACLAY, DEPARTEMENT DE METALLURGIE, SACLAY, FRANCE.
- 2556 Girardi, F., Guzzi, G., Pauly, J., Pietra, R.
The use of an automated system including a radiochemical step in activation analysis.
Modern Trends in Activation Analysis, 337-343, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). NUCLEAR CHEMISTRY LABORATORIES, CHEMISTRY DEPARTMENT, JOINT NUCLEAR RESEARCH CENTER, EURATOM, ISPRA ESTABLISHMENT, ITALY.
- 2557 Aubouin, G., Diebolt, J., Junod, E., Laverlochere, J.
Some applications of ion-exchange resins in activation microanalysis.
Modern Trends in Activation Analysis, 344-350, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). NUCLEAR RESEARCH CENTER, GRENOBLE, FRANCE.
- 2558 Comar, D., Le Poec, C.
On the use of an automatic chemical treatment system in activation analysis of biological samples.
Modern Trends in Activation Analysis, 351-356, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTEMENT DE BIOLOGIE, SERVICE HOSPITALIER FREDERIC JOLIOT, ORSAY (S. AND O.), FRANCE.
- 2559 Prussin, S. G., Harris, J. A., Hollander, J. M.
Application of lithium-drifted germanium gamma-ray detectors to neutron activation analysis. Nondestructive analysis of aluminum.
Modern Trends in Activation Analysis, 357-362, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 2560 Cappadona, C.
Minor constituents determination in complex materials by activation analysis with isotopic double dilution for removing the errors due to self-shielding, enhancement and neutron resonance.
Modern Trends in Activation Analysis, 363-364, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). ISTITUTO DI APPLICAZIONI E IMPIANTI NUCLEARI, UNIVERSITY OF PALERMO, PALERMO, ITALY.
- 2561 Kiryanov, G. I.
Investigation of the circuit and choice of main elements of the accelerating voltage source of the pulse neutron generator.
Modern Trends in Activation Analysis, 365-371, Proceedings 1965 International Conference, April 19-22, 1965, College Station, Texas (1965).
(ENGLISH). ALL UNION SCIENTIFIC RESEARCH INSTITUTE FOR RADIATION ENGINEERING, S.C.A.E., MOSCOW, RUSSIA.
- 2562 De Goeij, J. J. M., Houtman, J. P. W.
Oxygen determination using triton activation.
Modern Trends in Activation Analysis, 372-379, Proceedings 1965 International Conference, April 19-22, 1965, College

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Station, Texas (1965)
(ENGLISH). REACTOR INSTITUTE AT DELFT, DELFT, THE NETHERLANDS.
- 2563 Christell, R., Erwall, L. G., Ljunggren, K., Sjostrand, B., Westermark, T.
Methods of activation analysis for mercury in the biosphere and in foods.
Modern Trends in Activation Analysis, 380–382, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965)
(ENGLISH). ISOTOPES TECHNIQUES LABORATORY, (ITL), STOCKHOLM, SWEDEN.
- 2564 Egiazarov, B. G., Karpukhin, O. A., Matveev, V. V.
Problems of apparatus development for neutron activation analysis.
Modern Trends in Activation Analysis, 383–386, Proceedings 1965 International Conference, April 19–22, 1965, College Station, Texas (1965)
(ENGLISH). UNION SCIENTIFIC RESEARCH INSTITUTE FOR INSTRUMENTATION ENGINEERING, S.C.A.E., MOSCOW, RUSSIA.
- 2565 Nixon, G. S., Paxton, G. D., Smith, H.
Estimation of mercury in human enamel by activation analysis.
J. Dental Research, 44, No. 4, 654–656 (1965).
(ENGLISH). UNIVERSITY OF GLASGOW DENTAL SCHOOL AND DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF GLASGOW, SCOTLAND.
- 2566 Schulze, W.
Neutron activation as an analytical method.
Die Chemische Analyse, 50, 33, Ferdinand Enke Verlag Stuttgart (1962).
(GERMAN). UNIVERSITAT BERLIN, GERMANY.
- 2567 Cuypers, M., Cuypers, J.
Gamma ray spectra and sensitivities for 14 MeV neutron activation analysis.
Texas A and M University Unnumbered Report, 270p. (April 12, 1966).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2568 Kenna, B. T., Conrad, F. J.
Tabulation of cross sections, Q-values, and sensitivities for nuclear reactions of nuclides with 14 MeV neutrons.
SC-RR-66-229, 44p. (June 1966).
(ENGLISH). SANDIA LABORATORY, ALBUQUERQUE, N.M.
- 2569 Wood, D. E.
Fast neutron activation analysis for nitrogen in grain products.
KN-65-186, 33p. (August 1965).
(ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 2570 Forshufvud, S., Smith, H., Wassen, A.
Napoleons illness 1816–1821 in the light of activation analyses of hairs from various dates.
Archiv Fur Toxikologie, 20, 210–219 (1964).
(ENGLISH). GOTEBOG C, SWEDEN.
- 2571 Schultz, W. W.
Identifying plant and animal deficiencies by radioactive means.
U.S. Patent 3,094,621. June 18, 1963.
(ENGLISH). GENERAL ELECTRIC CO., SCHENECTADY, N.Y.
- 2572 Nixon, G. S., Smith, H.
Hazard of mercury poisoning in the dental surgery.
J. Oral Therapeutics and Pharmacology, 1, No. 5, 512–514 (1965).
(ENGLISH). UNIVERSITY OF GLASGOW DENTAL SCHOOL, GLASGOW, SCOTLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2573 Nixon, G. S., Livingston, H. D.,
Smith, H.
**Estimation of manganese in human
enamel by activation analysis.**
Archives Oral Biology, **11**, 247-252
(1966).
(ENGLISH). UNIVERSITY OF GLASGOW
DENTAL SCHOOL, GLASGOW, SCOTLAND.
- 2574 Phillips, H. R., Alexander, J. L.,
Drew, D. D.
**A new program for the digital
computer analysis of pulse-height
spectra.**
TEES-2671-4, VIII-1-VIII-11
(January 1, 1965).
(ENGLISH). TEXAS ENGINEERING
EXPERIMENT STATION, COLLEGE
STATION, TEXAS.
- 2575 Ashworth, M. J., Abeles, T. P.
**Neutron activation analysis and
archaeology.**
Nature, **210**, No. 5031, 9-11 (April
2, 1966).
(ENGLISH). CANADIAN HISTORIC
SITES DIVISION, OTTAWA, CANADA.
- 2576 Kaman Nuclear
**Sample handling system advances
art of activation analysis.**
Kaman Nuclear Technical Bulletin
No. 107, 3p.
(ENGLISH). KAMAN NUCLEAR,
COLORADO SPRINGS, COLORADO.
- 2577 Wood, D. E.
**Selected references for neutron
activation analysis.**
Kaman Nuclear Technical Bulletin
No. 108, 11p.
(ENGLISH). KAMAN NUCLEAR,
COLORADO SPRINGS, COLORADO.
- 2578 Niese, S.
**Activation analysis determination
of copper, manganese, nickel,
iron, cobalt, and zinc in silicon
and germanium.**
*Reinstoffe in Wissenschaft und
Technik*, 473-480, Akademie-Verlag,
Berlin (1963).
(GERMAN). ROSSENDORF, GERMANY.
- 2579 Prussin, S. G., Harris, J. A.,
Hollander, J. M.
**Nondestructive activation analysis
with lithium-drifted germanium
detectors.**
UCRL-11828, 197-199.
(ENGLISH). UNIVERSITY OF
CALIFORNIA RADIATION LABORATORY,
BERKELEY, CALIF.
- 2580 Wood, D. E.
**Boron interference in fast-neutron
activation analysis for oxygen.**
Kaman Nuclear Technical Note 105,
4p. (10 June 1965).
(ENGLISH). KAMAN NUCLEAR,
COLORADO SPRINGS, COLORADO.
- 2581 Lenihan, J. M. A.
Activation analysis.
Nature, **207**, No. 4995, 347-349
(1965).
(ENGLISH). WESTERN REGIONAL
HOSPITAL BOARD, GLASGOW,
SCOTLAND.
- 2584 Feldman, M. H., Battistone, G. C.
**Fluorine microdetermination by
neutron activation analysis.**
**Application to bacteriological
media.**
J. Nucl. Med., **7**, 140-149 (1966).
(ENGLISH). WALTER REED ARMY
INSTITUTE, WASHINGTON, D.C.
- 2585 Feldman, M. H., Reba, R. C.,
Battistone, G. C., Woodward, K.
T.
**The application of radioactivation
analysis for selected trace
elements in biological samples.**
J. Nucl. Med., **6**, 344-345 (1965).
(ENGLISH). WALTER REED ARMY
INSTITUTE, WASHINGTON, D.C.
- 2586 Van Wyk, J. M., Cuypers, M., Fite,
L. E., Wainerdi, R. E.
**A study of the macroscopic
distribution of oxygen in a steel
rod by neutron-activation and
vacuum fusion techniques.**
Analyst, **91**, 316-323 (May 1966).
(ENGLISH). SOUTH AFRICAN IRON
AND STEEL INDUSTRIAL CORPORATION,
PRETORIA, SOUTH AFRICA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 2587 Junod, E.
Analytical studies by activation. Counting of short half-life radionuclides. Volume I. Parts A and B.
 CEA-R 2980, 88p. (March 1966).
 (FRENCH) (ENGLISH SUMMARY).
 CENTRE D'ETUDES NUCLEAIRES DE SACLAY, FRANCE.
- 2588 Oak Ridge National Laboratory
Isotope development.
 ORNL-3650, 221-238.
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 2589 Brookhaven National Laboratory
Physical sciences and engineering.
 BNL-867, 1-117 (July 1, 1964).
 (ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 2590 Argonne National Laboratory
Environmental radiation studies.
 ANL-6971, 83-88 (1964).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 2591 Eichelberger, J. F., Grove, G. R., Jones, L. V.
Mound Laboratory progress report for January 1965.
 MLM-1238, 38p. (January 29, 1965).
 (ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.
- 2592 De Voe, J. R.
Radiochemical analysis. Activation analysis, instrumentation, radiation techniques and radioisotope techniques, July 1963 to June 1964.
 NBS-TN-248, 83p. (August 21, 1964).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 2593 De Voe, J. R.
Radiochemical analysis. Activation analysis, instrumentation, radiation techniques, and radioisotope techniques, July 1964-June 1965.
 NBS-TN-276, 155p. (January 7, 1966).
- (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 2595 Yule, H. P., Lukens, H. R., Guinn, V. P.
Utilization of reactor fast neutrons for activation analysis.
 GA-5978, 90p. (December 14, 1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 2596 Eichelberger, J. F., Grove, G. R., Jones, L. V.
Mound Laboratory progress report for November 1964.
 MLM-1227, 37p. (November 30, 1964).
 (ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.
- 2597 Steinnes, E.
Determination of trace elements in zone-refined aluminum by non-destructive activation analysis.
 KR-92, 12p. (February 1965).
 (ENGLISH). INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 2598 Steele, E. L., Lukens, H. R., Guinn, V. P.
Neutron activation analysis procedures for the determination of oxygen in potassium.
 GA-5982, 51p. (December 1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 2599 Leboeuf, M. B.
Optimizing neutron activation analysis.
 TID-21942, 22p. (May 13, 1965).
 (ENGLISH). KNOLLS ATOMIC POWER LABORATORY, GENERAL ELECTRIC COMPANY, SCHENECTADY, N.Y.
- 2600 Lyon, W. S.
Radioactivation analysis as an analytical tool.
 ORNL-P-1237, 25p. (1965).
 (ENGLISH). ANALYTICAL CHEMISTRY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

- 2601 Kiesel, W., Sorantin, H.,
Bildstein, H.
**Activation analytical
determination of the impurities
in aluminum.**
SGAE-CH-13/1964, 16p. (1964).
(GERMAN). OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, GES. M.B.H.,
REAKTORZENTRUM SEIBERSDORF,
AUSTRIA.
- 2602 Gangadharan, S., Krishnamoorthy
Iyer, R., Sankar Das, M.
**A chart of gamma energies vs.
half-life for nuclides produced
by (n, γ) and (x-x') reactions.**
AEET/ANAL/32, 9p. (1964).
(ENGLISH). GOVERNMENT OF INDIA,
ATOMIC ENERGY ESTABLISHMENT,
TROMBAY, BOMBAY, INDIA.
- 2603 Israel Atomic Energy Commission
**Research laboratories semi-annual
report for the period
January-June 1964.**
IA-984, 191p. (November 1964).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, SOREQ RESEARCH
ESTABLISHMENT, ISRAEL.
- 2604 Brune, D., Dubois, J., Hellstrom,
S.
**Improvements in applied gamma-ray
spectrometry with germanium
semiconductor detector.**
AE-174, 17p. (January 1965).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.
- 2605 Bryan, D. E., Guinn, V. P.
**Use of neutron activation analysis
in scientific crime detection.
12-month summary report for the
period November 1, 1963-October
31, 1964.**
GA-6152, 59p. (February 15, 1965).
(ENGLISH). JOHN JAY HOPKINS
LABORATORY FOR PURE AND APPLIED
SCIENCE, GENERAL ATOMIC DIVISION,
SAN DIEGO, CALIF.
- 2607 Bryan, D. E., Guinn, V. P.
**Application of neutron activation
analysis in scientific crime
detection. 18-month summary
report for the period May 1,
1962-October 31, 1963.**
GA-5556, 94p. (July 27, 1964).
(ENGLISH). JOHN JAY HOPKINS
LABORATORY FOR PURE AND APPLIED
SCIENCE, GENERAL ATOMIC DIVISION,
SAN DIEGO, CALIF.
- 2608 Dow Chemical Company
**Technical services quarterly
progress report for December
1964-February 1965.**
RFP-552, 13p. (June 24, 1965).
(ENGLISH). THE DOW CHEMICAL
COMPANY, ROCKY FLATS DIVISION.
- 2609 Raaen, H. P.
**Analytical chemistry division
annual progress report for period
ending November 15, 1965.**
ORNL-3889, 167p. (January 1966).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 2610 Kim, J. I., Speecke, A., Hoste, J.
**Neutron activation analysis of
copper in bismuth by
 γ,γ -coincidence measurement.**
Anal. Chim. Acta, **33**, 123-130
(August 1965).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
ANALYTICAL CHEMISTRY, UNIVERSITY
OF GHENT, GHENT, BELGIUM.
- 2611 Verbeek, A. A.
**The determination of niobium in
steel by neutron activation.**
Anal. Chim. Acta, **33**, 131-137
(August 1965).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). ANALYTICAL CHEMISTRY
BRANCH, ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, BERKS.,
ENGLAND.
- 2612 Kim, J. I., Hoste, J.
**Non-destructive neutron activation
determination of silver and
antimony in bismuth by
 γ,γ -coincidence spectrometry.**
Anal. Chim. Acta, **33**, 449-458

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (October 1965).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). LABORATORY FOR ANALYTICAL CHEMISTRY, GHENT UNIVERSITY, GHENT, BELGIUM.
- 2613 Kim, J. I., Hoste, J.
Determination of zinc in high-purity bismuth by thermal neutron activation.
Anal. Chim. Acta, **35**, 148–153 (June 1966).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 2614 Okada, M.
Study on rapid analysis by radioactivation. VII. Determination of chlorine, bromine, rubidium, yttrium, indium, tungsten, gold and lead by neutron irradiation.
Tokyo Kogyo Shikensho Hokoku, **61**, 7–10 (January 1966).
(JAPANESE) (ENGLISH SUMMARY). JAPAN.
- 2615 Kopineck, H. J., Sommerkorn, G., Bass, R., Presser, G.
Determination of the oxygen content of steel with 14 MeV neutrons.
Arch. Eisenhuettenw., **35**, 987–991 (October 1964).
(GERMAN) (ENGLISH AND FRENCH SUMMARIES). MITTEILUNG AUS DER VERSUCHSANSTALT DER HOESCH AG WESTFALENHUTTE, DORTMUND, GERMANY.
- 2617 Leipunskaya, D. I.
The use of neutron breeders and neutron generators in activation analysis (review).
Industrial Laboratory, USSR, **31**, 854–857 (1965).
(ENGLISH TRANSLATION). RUSSIA.
- 2618 Peisach, M., Pretorius, R.
Isotopic determination of calcium-48 by proton activation.
Anal. Chem., **38**, No. 8, 956–959 (1966).
- (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 2619 Veal, D. J.
Non-destructive activation analysis of crude oils for arsenic to one ppb and the simultaneous determination of five other trace elements.
Anal. Chem., **38**, No. 8, 1080–1083 (1966).
(ENGLISH). RESEARCH AND DEVELOPMENT DEPARTMENT, PHILLIPS PETROLEUM CO., BARTLESVILLE, OKLAHOMA.
- 2620 De La Barre, F.
Sealed neutron source.
Genie Civil, **141**, 117–119 (1964).
(FRENCH). BUREAU DE DOCUMENTATION TECHNIQUE, LA RADIOTECHNIQUE, FRANCE.
- 2621 Grosse-Ruyken, H., Bosholm, J.
Partition chromatography of rare earths with di-(2-ethylhexyl)-phosphoric acid. IV. Determination of microamounts of holmium in dysprosium and of lutetium in ytterbium by activation analysis.
Kernenergie, **8**, 224–226 (April 1965).
(GERMAN). INSTITUT FÜR ANORGANISCHE UND ANORGANISCH-TECHNISCHE CHEMIE, DRESDEN, GERMANY.
- 2622 Gray, A. L., Metcalf, A.
Improvements in or relating to methods of determining the ash content of coal.
British Patent 960,408. June 10, 1964.
(ENGLISH). THE PLESSEY CO., LTD., ENGLAND.
- 2623 Haerdi, W., Voldet, P., Monnier, D.
On the possibilities of the nondestructive determination of fluorine by neutron activation and gamma spectrometry of F-20 or of N-16 (half lives 10.7 and 7.35 sec respectively). Comparative study, application to cryolite.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Helv. Chim. Acta*, **48**, 1776–1781
(October 30, 1965).
(FRENCH). LABORATORIES DE CHIMIE
MINERALE ET DE CHIMIE ANALYTIQUE
DE L'UNIVERSITE DE GENEVE, ECOLE
DE CHIMIE, SWITZERLAND.
- 2625 Lux, F., Kohler, W.
**The role of the resonance
activation integral in the
activation analysis: Determination
of silver.**
Nukleonik, **7**, 480–484 (October
1965).
(GERMAN). INSTITUT FUR
RADIOCHEMIE UND PHYSIK-DEPART-
MENT, TECHNISCHE HOCHSCHULE
MUNCHEN, GERMANY
- 2626 Haerdi, W.
**Analysis of elements by gamma
spectrometry after neutron
irradiation. Nomographic
determination of the dosage
limits and the interference.**
Nukleonik, **7**, 58–64 (February
1965).
(FRENCH). LABORATOIRE DE CHIMIE
ANALYTIQUE ET DE CHIMIE MINERALE
DE L'UNIVERSITE ECOLE DE CHIMIE
DE GENEVE, SWITZERLAND.
- 2627 Muller, G.
**Special methods of stable isotope
analysis.**
Kernenergie, **8**, 265–283 (May
1965).
(GERMAN). INSTITUT FUR STABILE
ISOTOPE, LEIPZIG, GERMANY.
- 2628 Schweikert, E. A., Albert, P.
**Radioactivation analysis of
titanium in aluminum by means of
the reaction $^{48}\text{Ti}(p,n)^{48}\text{V}$.**
Compt. Rend., Ser. C, **262**, 87–90
(January 3, 1966).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE DU CENTRE
NATIONAL DE LA RECHERCHE
SCIENTIFIQUE, VITRY,
VAL-DE-MARNE, FRANCE.
- 2629 Schweikert, E. A., Albert, P.
**Radioactivation analysis of iron
in aluminum using the reaction**
Fe-56(p,n)Co-56.
Compt. Rend., Ser. C, **262**, 342–345
(January 24, 1966).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE DU C.N.R.S.,
VITRY, VAL-DE-MARNE, FRANCE.
- 2632 Adloff, J. P., Schleiffer, J. J.,
Urlacher, C.
**Analytical applications of (α,n)
reactions.**
Bull. Soc. Chim. France, No. 2,
698–703 (February 1966).
(FRENCH). DEPARTEMENT DE CHIMIE
NUCLEAIRE, CENTRE DE RECHERCHES
NUCLEAIRES, STRASBOURGH-
CRONENBOURG, FRANCE.
- 2633 Vincent, J., Haumont, S., Roels,
J.
**Microscopic determination of bone
phosphorus by quantitative
autoradiography of neutron-activated
sections.**
J. Cell Biol., **24**, 31–37 (January
1965).
(ENGLISH). DEPARTMENT OF ANATOMY
AND HISTOLOGY, LOVANUM
UNIVERSITY AND THE CENTRE TRICO,
LEOPOLDVILLE, REPUBLIC OF THE
CONGO.
- 2634 Amiel, S., Gan, R., Nir, A.
Determination of O^{18} .
British Patent 940,056. October
23, 1963.
(ENGLISH). REHOVOTH, ISRAEL.
- 2635 Brune, D.
**Transfer of activities from
container material to sample in
neutron activation analysis.**
Radiochim. Acta, **5**, 14–16 (March
1966).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). AB ATOMENERGI,
STUDSVIK, SWEDEN.
- 2636 Stark, H., Turkowsky, C.
**Determination of trace contents of
 ^{232}Th in stones and minerals by
neutron activation.**
Radiochim. Acta, **5**, 16–18 (March
1966).
(GERMAN) (ENGLISH AND FRENCH

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- SUMMARIES). INSTITUT FUR
RADIOCHEMIE DER TECHNISCHEM
HOCHSCHULE MUNCHEN, GERMANY.
- 2637 Battistone, G. C., Feldman, M. H.
**Sample handling conveniences for
activation analysis.**
*Intern. J. Appl. Radiation and
Isotopes*, **17**, 74–75 (January
1966).
(ENGLISH). DIVISION OF NUCLEAR
MEDICINE, WALTER REED ARMY
INSTITUTE OF RESEARCH,
WASHINGTON, D.C.
- 2638 Wester, P. O.
**Concentration of 17 elements in
sub cellular fractions of beef
heart tissue determined by
neutron activation analysis.**
Biochim. Biophys. Acta, **109**, No.
1, 268–283 (1965).
(ENGLISH). DEPARTMENT OF
MEDICINE, KAROLINSKA INSTITUTET,
SWEDEN.
- 2639 Wester, P. O.
**Concentration of 24 trace elements
in human heart tissue determined
by neutron activation analysis.**
Scand. J. Clin. Lab. Invest., **17**,
357–370 (1965).
(ENGLISH). DEPARTMENT OF
MEDICINE, KAROLINSKA INSTITUTET,
SERAFIMERLASARETTET, STOCKHOLM,
SWEDEN.
- 2640 Artyukhin, P. I., Gilbert, E. N.,
Pronin, V. A.
**A radioactivation method for
determining impurities in
stibium.**
Zh. Anal. Khim., **21**, 504–505
(1966).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUTE OF INORGANIC CHEMISTRY,
USSR ACADEMY OF SCIENCES,
SIBERIAN DEPARTMENT, NOVOSIBIRSK,
RUSSIA.
- 2641 Perezhogin, G. A., Alimarin, I. P.
**A determination of gold in rocks
and meteorites by neutron
activation.**
Zh. Anal. Khim., **20**, 793–798
(1965).
(RUSSIAN) (ENGLISH SUMMARY).
V.I. VERNADSKY INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, USSR ACADEMY OF
SCIENCES, MOSCOW, RUSSIA.
- 2642 Roth, L. J.
**Isotopes in experimental
pharmacology.**
*Isotopes in Experimental
Pharmacology*, 502p.,
International Conference on the
Uses of Isotopically Labelled
Drugs in Experimental
Pharmacology, Chicago, June 7–9,
1964 (CONF-640628) (1965).
(ENGLISH). CHICAGO, ILLINOIS.
- 2643 Op De Beeck, J., Speecke, A.,
Hoste, J.
**The $^{204}\text{Pb}(n,p)^{204}\text{Tl}$ reactor
cross-section and the neutron
activation analysis of thallium
in lead.**
Radiochim. Acta, **4**, 32–35 (May
1965).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). LABORATORY OF
ANALYTICAL CHEMISTRY, GHENT
UNIVERSITY, BELGIUM.
- 2644 Herr, W., Wolfle, R.
**A γ,γ -coincidence arrangement for
activation-analysis determination
of trace amounts of selenium and
iridium in minerals, nickel,
iron, and platinum metals.**
Z. Anal. Chem., **209**, 213–226
(February 24, 1965).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR KERNCHEMIE DER
UNIVERSITAT KOLN, GERMANY.
- 2645 Wyttenbach, A.
**Uses of activation analysis for
criminal problems. I. Car paint.**
Neue Tech., **7**, 85–92 (April 1965).
(GERMAN). EIDG. INSTITUT FUR
REAKTORFORSCHUNG, WURENLINGEN,
SWITZERLAND.
- 2647 Pro, M. J., Schlesinger, H. L.,
Cohan, M. D.
Activation analysis of physical

ACTIVATION ANALYSIS—ACCESSION NUMBERS

evidence connected with illicit distilleries.

J. Assoc. Offic. Agr. Chemists,
48, 459-471 (June 1965).

(ENGLISH). INTERNAL REVENUE
SERVICE, WASHINGTON, D.C.

RESEARCH ESTABLISHMENT, HARWELL,
DIDCOT, BERKS., ENGLAND.

2653 Guinn, V. P.

Advances in neutron activation analysis.

Isotopes Radiation Technol., 2,
No. 4, 329-339 (Summer 1965).

(ENGLISH). GENERAL ATOMIC -
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO,
CALIFORNIA.

2648 Schlesinger, H. L., Pro, M. J.,
Hoffman, C. M., Cohan, M. D.

Activation analysis of drugs.

J. Assoc. Offic. Agr. Chem., 48,
1139-1147 (December 1965).

(ENGLISH). INTERNAL REVENUE
SERVICE, WASHINGTON, D.C.

2654 El-Shamy, H. K., Abdel-Rassoul, A.
A., Bishay, T. Z.

Determination of certain trace impurities in pure lead and aluminum by activation analysis.

Isotopes Radiation Technol., 2,
No. 4, 348-349 (Summer 1965).

(ENGLISH). NUCLEAR CHEMISTRY
DEPARTMENT, ATOMIC ENERGY
ESTABLISHMENT, INSHAS, U.A.R.

2649 Fujii, I., Miyoshi, K., Muto, H.,
Shimura, K.

Application of a fast neutron activation method to the determination of oxygen in iron and steel.

Anal. Chim. Acta, 34, 146-153
(February 1966).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). CENTRAL RESEARCH
LABORATORY, TOKYO SHIBAURA
ELECTRIC CO., LTD., KANAGAWA-KEN,
TOKYO, JAPAN.

2655 Wiehart, H.

Radioisotopes in the textile industry.

Meliand Textilber., 45, 187-190
(February 1964).

(GERMAN). DORNBIRN/VORARLBERG,
GERMANY.

2650 Putman, J. L., Taylor, W. H.

Improvements in or relating to methods of and means for radioactivation analysis.

British Patent 824,789. December
2, 1959.

(ENGLISH). UKAEA, LONDON,
ENGLAND.

2656 Skougstad, M. W., Fishman, M. J.

Water analysis.

Anal. Chem., 37, 232R-260R (April
1965).

(ENGLISH). U.S. GEOLOGICAL
SURVEY, DENVER, COLORADO.

2651 Caddock, B. D., Deterding, J. H.

The determination of sodium in heavy fuel oils by neutron-activation analysis.

Analyst, 90, 437-439 (July 1965).

(ENGLISH). SHELL RESEARCH LTD.,
THORNTON RESEARCH CENTRE,
CHESTER, ENGLAND.

2657 Hoffmann, W.

The determination of beta emitters with the help of Cherenkov radiation.

Radiochim. Acta, 4, 117-119
(August 1965).

(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). FARBWERKE AG.,
VORMALS MEISTER LUCIUS AND
BRUNING, FRANKFURT (MAIN)-HOCHST,
GERMANY.

2652 Pierce, T. B., Peck, P. F., Henry,
W. M.

The rapid determination of carbon in steels by measurement of the prompt radiation emitted during deuteron bombardment.

Analyst, 90, 339-345 (June 1965).

(ENGLISH). ATOMIC ENERGY

2658 Naumova, I. I.

Quantitative determination of nickel and iron in ferromagnetic

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- films by neutron activation.
Radiokhimiya, **7**, 502–504 (1965).
 (RUSSIAN). RUSSIA.
- 2659 Csoke, A., Peter, I.
Some problems with in-pile irradiation facility for activation analysis.
Magyar Tud. Akad. Kozp. Fiz. Kut. Int. Kozlemen., **13**, 343–352 (1965).
 (HUNGARIAN). HUNGARY.
- 2660 Yanshkevich, V. A., Ivanov, L. I.
Quantitative analysis of complex gamma spectra of radioactive metals and alloys.
Industrial Laboratory, USSR, **31**, No. 6, 858–861 (1965).
 (ENGLISH TRANSLATION). A.A. BAIKOV INSTITUTE OF METALLURGY, RUSSIA.
- 2661 Naumova, I. I.
Determining nitrogen and boron by fast-neutron activation.
Industrial Laboratory, USSR, **31**, No. 10, 1508–1509 (1965).
 (ENGLISH TRANSLATION). RUSSIA.
- 2662 Kramer, H. H., Hampton, W. J., Wahl, W. H.
Interference by (n,p) and/or (n, alpha) reactions to (n, gamma) reactions used in activation analysis.
Trans. Am. Nucl. Soc., **8**, 83 (May 1965).
 (ENGLISH). UNION CARBIDE CORP., NEW YORK, N.Y.
- 2663 Lukens, H. R.
Simplified estimation of upper limits in neutron activation analysis.
Trans. Am. Nucl. Soc., **8**, 83–84 (May 1965).
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIFORNIA.
- 2664 Barry, R. C., Iliff, T. L.
Neutron-activation methods used for routine ceramic coating testing.
Trans. Am. Nucl. Soc., **8**, 85–86 (May 1965).
 (ENGLISH). ATOMICS INTERNATIONAL, CANOGA PARK, CALIFORNIA.
- 2665 Harmison, L. T., Lakshmanan, S., Duffey, D.
Derivative activation analysis of zinc.
Trans. Am. Nucl. Soc., **8**, 86 (May 1965).
 (ENGLISH). USA.
- 2666 Nargolwalla, S. S., Jervis, R. E.
Continuous analysis of trace fluorine by 14 MeV neutron activation.
Trans. Am. Nucl. Soc., **8**, 86–87 (May 1965).
 (ENGLISH). UNIVERSITY OF TORONTO, ONT., CANADA.
- 2667 Vernin, E.
Industrial development of activation analysis equipment and its applications.
Giornate dell'Energia Nucleare 1964, 209–221, Milan, Federazione delle Associazioni Scientifiche e Tecniche (1965).
 (FRENCH). SOCIETE ANONYME DES MACHINES ELECTROSTATIQUES, FRANCE.
- 2668 Bril, J., Dugain, F.
Determination of oxygen in beryllium metal by vacuum fusion.
J. Nucl. Mater., **16**, 162–168 (June 1965).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). LABORATORIE DE RECHERCHES D'ELECTROCHIMIE ET DES METAUX NOUVEAUX, COMPAGNIE PECHINEY, GRENOBLE, FRANCE.
- 2669 Ball, T. K., Filby, R. H.
The zinc contents of some geochemical standards by neutron activation and x-ray fluorescence analysis.
Geochim. Cosmochim. Acta, **29**, 737–740 (July 1965).
 (ENGLISH). MINERALOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2670 Glos, M. B. 373-382 (1965).
Activation analysis ready for routine use.
Nucleonics, **23**, No. 6, 62-66, 68-70 (June 1965).
 (ENGLISH). MCGRAW-HILL BOOK CO., NEW YORK, N.Y. (ENGLISH). UNION CARBIDE CORPORATION-MINING AND METALS DIVISION, TUXEDO, N.Y.
- 2671 Torko, J.
Non-destructive determination of traces of silver in palladium by neutron activation analysis.
Magyar Kem. Lap., **21**, 166-167 (March 1966).
 (HUNGARIAN) (ENGLISH SUMMARY). ORSZAGOS ATOMENERGIA BIZOTTSAG ISOTOP INTEZETE, HUNGARY. 2678 Nickel, H., Rottmann, J., Stocker, H. J., Koster-Pflugmacher, A., Froberg, M. G.
Determination of the oxygen content of steel and metal powders with 14.5 MeV neutrons.
Arch. Eisenhuettenw., **35**, 637-647 (July 1964).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR REAKTORWERKSTOFFE, KERNFORSCHUNGSANLAGE JULICH, GERMANY.
- 2672 Winchester, J. W., Hashimoto, Y.
Packaging liquid samples for reactor neutron irradiation.
Radiochim. Acta, **4**, 108-109 (June 1965).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, M.I.T., CAMBRIDGE, MASSACHUSETTS. 2680 Rommel, M. A., Keller, R. A.
The in situ identification of phosphate species in multi-spot chromatograms by neutron activation analysis.
J. Chromatog., **18**, No. 2, 349-358 (1965).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ARIZONA, TUCSON, ARIZONA.
- 2673 White, J. C., Lyon, W. S.
Nuclear and radiochemical analyses.
 ORNL-3889, 48-70.
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE. 2681 Rakovic, M.
Problems of interference in neutron activation analysis.
Chem. Listy, **59**, 1038-1046 (September 1965).
 (CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI, KARLOVY UNIVERSITY, PRAHA, CZECHOSLOVAKIA.
- 2674 Shchiokava, T.
Use of Cockroft-Walton accelerator for radioactivation analysis.
Genshiryoku Kogyo, **9**, No. 6, 36-38 (1963).
 (JAPANESE). TOKYO UNIVERSITY, TOKYO, JAPAN. 2682 Lyon, W. S., Ricci, E., Ross, H. H.
Nucleonics.
Anal. Chem., **38**, No. 5, 251R-261R (April 1966).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 2675 Riga, USSR
Nuclear spectroscopy and neutron activation analysis.
Yadernya Spektroskopiya i Neitrononaktivatsionnyii Analiz, **84p.**, Izdatelstvo Zinatne, Riga (1965).
 (RUSSIAN). RUSSIA. 2683 Motojima, K., Hashitani, H., Bando, S., Yoshida, H.
Use of extraction-photometric technique in activation analysis.
Determination of gallium and indium in aluminum and zinc.
- 2676 Kramer, H. H., Wahl, W. H.
Formation of Se^{77m} , Sr^{87m} , Cd^{111m} , and Ba^{137m} by reactor spectrum neutrons for use in activation analysis.
Nucl. Sci. Eng., **22**, No. 3,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- JAERI 1148, 11p. (June 1967).
 (ENGLISH) (JAPANESE SUMMARY).
 DIVISION OF RESEARCH, TOKAI
 RESEARCH ESTABLISHMENT, JAPAN
 ATOMIC ENERGY RESEARCH INSTITUTE,
 JAPAN.
- 2684 Caldwell, R. L., Mills, W. R.,
 Allen, L. S., Bell, P. R., Heath,
 R. L.
**Combination neutron experiment for
 remote analysis.**
Science, **152**, 457–465 (April 22,
 1966).
 (ENGLISH). SOCONY MOBIL OIL
 COMPANY, INC., DALLAS, TEXAS.
- 2685 Rojas, M. A., Dyer, I. A.,
 Cassatt, W. A.
**Determination of manganese in bone
 by neutron activation analysis.**
Anal. Chem., **38**, 788–789 (May
 1966).
 (ENGLISH). WASHINGTON STATE
 UNIVERSITY, PULLMAN, WASHINGTON.
- 2686 Benjamin, R. W., Blake, K. R.,
 Morgan, I. L.
**High sensitivity oxygen analysis
 of metallic samples with fast
 neutrons.**
Anal. Chem., **38**, 947–949 (June
 1966).
 (ENGLISH). TEXAS NUCLEAR CORP.,
 AUSTIN, TEXAS.
- 2687 Corless, J. T.
**Determination of Ca-48 in natural
 calcium by neutron activation
 analysis.**
Anal. Chem., **38**, 810–813 (June
 1966).
 (ENGLISH). GRADUATE SCHOOL OF
 OCEANOGRAPHY, UNIVERSITY OF RHODE
 ISLAND, KINGSTON, R.I.
- 2688 Lamb, J. F., Prussin, S. G.,
 Harris, J. A., Hollander, J. M.
**Application of lithium-drifted
 germanium gamma-ray detectors to
 neutron activation analysis.**
**Nondestructive analysis of a
 sulfide ore.**
Anal. Chem., **38**, 813–818 (June
 1966).
- (ENGLISH). LAWRENCE RADIATION
 LABORATORY, UNIVERSITY OF
 CALIFORNIA, BERKELEY, CALIF.
- 2689 Yule, H. P.
**Reactor neutron activation
 analysis. Instrumental
 sensitivities in six matrix
 materials.**
Anal. Chem., **38**, 818–821 (June
 1966).
 (ENGLISH). GENERAL ATOMIC
 DIVISION, GENERAL DYNAMICS
 CORPORATION, SAN DIEGO, CALIF.
- 2690 Arino, H., Kramer, H. H.,
 Molinski, V. J., Tilbury, R. S.,
 Wahl, W. H., Stier, P. M.
**Research in activation analysis.
 Final report. August 1,
 1963–October 31, 1964.**
 NYO-10175, 130p. (December 31,
 1964).
 (ENGLISH). NUCLEAR DIVISION,
 UNION CARBIDE CORPORATION,
 TUXEDO, N.Y.
- 2691 Mc Guire, S. W., Hartley, H. O.,
 Wainerdi, R. E.
**An improved model for the
 least-squares analysis of
 gamma-ray spectra in activation
 analysis.**
Trans. Am. Nucl. Soc., **8**, 325
 (November 1965).
 (ENGLISH). TEXAS A AND M,
 COLLEGE STATION, TEXAS.
- 2692 Pollack, L. R.
**Recommended delay in counting
 after neutron activation.**
Trans. Am. Nucl. Soc., **8**, 325–326
 (November 1965).
 (ENGLISH). SAN FRANCISCO NAVAL
 SHIPYARD, SAN FRANCISCO, CALIF.
- 2693 Winchester, J. W.
**Neutron activation analysis of
 halogens in the atmosphere.**
Trans. Am. Nucl. Soc., **8**, 326–327
 (November 1965).
 (ENGLISH). MASSACHUSETTS
 INSTITUTE OF TECHNOLOGY,
 CAMBRIDGE, MASS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2694 Schroeder, G. L., Kraner, H. W.,
Evans, R. D.
The application of lithium-drifted germanium detectors to neutron activation analysis—studies in geochemistry and of 15th century printing.
Trans. Am. Nucl. Soc., **8**, 327
(November 1965).
(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 2695 Ouellette, R. P., Balcius, J. F.,
Brownell, G. L.
The determination of iodinated compounds by neutron activation of I-129—description of the technique.
Trans. Am. Nucl. Soc., **8**, 330-331
(November 1965).
(ENGLISH). MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASS.
- 2696 Lukens, H. R., Heydorn, K., Choy, T. K.
The determination of vanadium in blood by neutron activation analysis with preirradiation separation.
Trans. Am. Nucl. Soc., **8**, 331
(November 1965).
(ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIF.
- 2697 Tilbury, R. S., Wahl, W. H.
Activation analysis by high-energy particles.
Nucleonics, **23**, No. 9, 70-78
(September 1965).
(ENGLISH). UNION CARBIDE CORPORATION, TUXEDO, N.Y.
- 2698 Parr, R. M.
Measuring radioisotopes in biomedical samples.
Nucleonics, **23**, No. 9, 56-60, 62
(September 1965).
(ENGLISH). INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA.
- 2699 Bate, L. C., Dyer, F. F.
Trace elements in human hair.
Nucleonics, **23**, No. 10, 74-78, 80-81 (October 1965).
- (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 2701 Souliotis, A. G., Grimanis, A. P.,
Tsanos, N. A.
Determination of chloride in beer by radioactivation analysis.
Analyst, **90**, 499-501 (August 1965).
(ENGLISH). CHEMISTRY DEPARTMENT, NUCLEAR RESEARCH CENTER, DEMOCRITUS, ATHENS, GREECE.
- 2702 Fite, L. E.
Mark II automatic computer - coupled activation analysis system.
TEES-2671-4, II-1-II-81 (January 1, 1965).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2703 Wilkins, W. W.
Communication theory in neutron activation analysis.
TEES-2671-4, III-1-III-39 (January 1, 1965).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2704 Lam, C. F.
Detector research.
TEES-2671-4, IV-1-IV-14 (January 1, 1965).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2705 To-on, M.
The determination of phosphorus by fast neutron activation analysis.
TEES-2671-4, V-1-V-37 (January 1, 1965).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2706 Smith, L. H., Hartley, H. O.
Application of linear estimation to a chemical mixture problem.
TEES-2671-4, VII-1-VII-41 (January 1, 1965).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2707 Jimenez, P., Cuypers, M.
Public benefit utilizations.
 TEES-2671-4. IX-1-IX-45 (January 1, 1965).
 (ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 2710 Canadian Chemical Processing
P-I-N diodes pinpoint gamma radiation.
Can. Chem. Process, **49**, 77-78, 80, 82 (February 1965).
 (ENGLISH). CANADA.
- 2711 Kamada, H., Ujihara, Y., Fukuda, K., Keimatsu, S., Tsurumi, Y.
Neutron activation analysis for traces of sodium in polycarbonate.
Bull. Chem. Soc. Japan, **38**, 1220-1221 (July 1965).
 (ENGLISH). DEPARTMENT OF INDUSTRIAL CHEMISTRY, FACULTY OF ENGINEERING, THE UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.
- 2712 Rommel, H.
Determination of boron in silicon and germanium by proton and deuteron activation.
Anal. Chim. Acta, **34**, No. 4, 427-446 (1966).
 (GERMAN). (ENGLISH AND FRENCH SUMMARIES). DEUTSCHE AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, GERMANY.
- 2713 Nizet, G., Fouarge, J., Duyckaerts, G.
Determination of copper traces in high purity arsenic by neutron activation.
Anal. Chim. Acta, **35**, No. 3, 370-375 (1966).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). LABORATOIRE DE CHIMIE NUCLEAIRE, INSTITUT DE CHIMIE ET METALLURGIE, UNIVERSITE DE LIEGE, LIEGE, BELGIUM.
- 2714 Travesi, A., Palomares, J., Dominguez, G.
Neutron activation analysis of microgram amounts of thorium in uranium ores and process liquors by means of thorium-233.
Anal. Chim. Acta, **35**, No. 4, 421-426 (1966).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). RADIOCHEMISTRY SECTION, DIVISION OF CHEMISTRY AND ISOTOPES, JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN.
- 2715 Op De Beeck, J., Hoste, J.
The simultaneous determination of silver, gold and mercury in high purity lead by neutron activation analysis.
Anal. Chim. Acta, **35**, No. 4, 427-440 (1966).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 2716 Okada, M.
T-E gamma charts of short-lived nuclides formed by neutron activation.
Bull. Chem. Soc. Japan, **39**, No. 6, 1340-1341 (1966).
 (ENGLISH). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, SHIBUYA-KU, TOKYO, JAPAN.
- 2717 Rychkov, R. S., Berkutova, I. D., Glukhareva, N. A., Gofman, A. K., Kuznetsova, G. A., Smirnova, N. B.
Radioactivity-based methods of determining microimpurities in materials used in semiconductor production.
 AEC-TR-6466/1, 260-267.
 (ENGLISH TRANSLATION). RUSSIA.
- 2718 Samsahl, K.
An automated anion-exchange method for the selective sorption of five groups of trace elements in neutron-irradiated biological material.
Nukleonik, **8**, No. 5, 252-256 (June 1966).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). AB ATOMENERGI,
 NYKOPING, SWEDEN.

2719 Fergusson, A. G., Dewar, W. A.,
 Derblay, P. R., Lenihan, J. M.
 A., Smith, H.

**Arsenic in skin of patients
 suffering from lichen planus and
 from multiple superficial
 epitherliomatosis. Further
 studies by the method of
 activation analysis.**

*Proceedings of the XIIth
 International Congress of
 Dermatology, Washington, I,*
 312-315 (1962).

(ENGLISH). DEPARTMENTS OF
 DERMATOLOGY AND FORENSIC
 MEDICINE, STOBHILL HOSPITAL AND
 UNIVERSITY OF GLASGOW, AND
 REGIONAL PHYSICS DEPARTMENT,
 WESTERN REGIONAL HOSPITAL BOARD,
 GLASGOW, SCOTLAND.

2720 Senftle, F. E., Hoyte, A. F.

**Mineral exploration and soil
 analysis using in situ neutron
 activation.**

Nucl. Instr. Methods, **42**, No. 1,
 93-103 (1966).

(ENGLISH). U.S. GEOLOGICAL
 SURVEY, WASHINGTON, D.C.

2721 Alimarin, I. P., Yakovlev, Y. V.,
 Shchulepnikov, M. N., Perezhogin,
 G. P.

**Measurement of small amounts of
 impurities in thallium, gallium,
 phosphorus and antimony by
 radioactivation analysis.**

AEC-TR-6466/1, 288-292.

(ENGLISH TRANSLATION). RUSSIA.

2722 Harmison, L. T., Lakshmanan, S.,
 Duffey, D.

**Derivative neutron activation
 analysis.**

GMELIN AED-CONF-65-125-44,
*American Nuclear Society 11th
 Annual Meeting, Gatlinburg,
 Tennessee*, 10p. (June 1965).

(ENGLISH). HITTMAN ASSOCIATES
 INC., BALTIMORE, MARYLAND.

2723 Pfrepper, G., Koch, H.

**Neutron activation analysis of
 luminophoric zinc complexes.**

**Influence of interference
 reactions by the determination of
 copper, nickel, cobalt, iron, and
 manganese in zinc sulfate and
 zinc sulfide.**

Mikrochim. Acta, No. 3, 481-487
 (1966).

(GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FUR
 ANGEWANDTE RADIOAKTIVITAT,
 LEIPZIG, GERMANY.

2724 Pfrepper, G., Koch, H.

**Neutron activation analysis of
 luminophoric zinc complexes.**

**Determination of copper and
 nickel.**

Mikrochim. Acta, No. 3, 488-494
 (1966).

(GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FUR
 ANGEWANDTE RADIOAKTIVITAT,
 LEIPZIG, GERMANY.

2725 Pfrepper, G., Koch, H.

**Neutron activation analysis of
 luminophoric zinc complexes.**

**Determination of manganese, iron,
 and cobalt.**

Mikrochim. Acta, No. 3, 495-500
 (1966).

(GERMAN) (ENGLISH AND FRENCH
 SUMMARIES). INSTITUT FUR
 ANGEWANDTE RADIOAKTIVITAT,
 LEIPZIG, GERMANY.

2726 Boide, G., Chauvin, G., Coriou,
 H.

**Dehydration of the fused lithium
 chloride - potassium chloride**

**eutectic by bubbling with
 hydrochloric gas. Determination
 of the oxygen content by
 activation.**

Electrochim. Acta, **11**, No. 3,
 375-376 (1966).

(FRENCH). CENTRE D'ETUDES
 NUCLEAIRES DE SACLAY, FRANCE.

2727 Shinagawa, M., Oyoshi, A., Oyoshi,
 E.

**On the determination of the
 isotopic composition of potassium**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- by neutron activation.
Nippon Genshiryoku Gakkaishi, **7**,
 186–190 (April 1965).
 (JAPANESE) (ENGLISH SUMMARY).
 FACULTY OF ENGINEERING, OSAKA
 UNIVERSITY, JAPAN.
- 2728 Hoffmeister, W.
**The determination of copper in
 quartz by neutron activation
 analysis.**
*Intern. J. Appl. Radiation
 Isotopes*, **17**, No. 6, 360–361
 (1966).
 (ENGLISH). IBM LABORATORIES,
 BOEBLINGEN, GERMANY.
- 2729 Robertson, D. S.
**Chemical group separation in
 radioactivation analysis.**
Nature, **210**, No. 5043, 1357–1358
 (June 25, 1966).
 (ENGLISH). ROYAL RADAR
 ESTABLISHMENT, GREAT MALVERN,
 WORCESTERSHIRE, ENGLAND.
- 2730 Fireman, P., Borg, D. C., Gitlin,
 D.
**Stable bromine and activation
 analysis in protein tracer
 studies.**
Nature, **210**, No. 5035, 547–548
 (April 30, 1966).
 (ENGLISH). UNIVERSITY OF
 PITTSBURGH SCHOOL OF MEDICINE,
 PITTSBURGH, PA.
- 2731 Armstrong, R. L.
**Potassium-argon dating using
 neutron activation for argon
 analysis. Granitic plutons of the
 Eastern Great Basin, Nevada and
 Utah.**
Geochim. Cosmochim. Acta, **30**, No.
 6, 565–600 (1966).
 (ENGLISH). YALE UNIVERSITY,
 DEPARTMENT OF GEOLOGY, NEW HAVEN,
 CONNECTICUT.
- 2732 Stevenson, R. A., Ufret, S. L.,
 Diecidue, A. T.
**Trace element analyses of some
 marine organisms.**
*Fifth Inter-American Symposium on
 the Peaceful Application of*
- Nuclear Energy*, 233–239,
 Washington, D.C., Pan American
 Union (1965).
 (ENGLISH). PUERTO RICO NUCLEAR
 CENTER, MAYAGUEZ, PUERTO RICO.
- 2733 Cotzias, G. C., Miller, S. T.,
 Edwards, J.
**Neutron activation analysis. The
 stability of manganese
 concentrations in human blood and
 serum.**
J. Lab. Clin. Med., **67**, 836–849
 (May 1966).
 (ENGLISH). UPTON, N.Y.
- 2734 Steele, E. L.
**Development of neutron activation
 analysis procedures for the
 determination of oxygen in
 potassium. Quarterly report no.
 3, period ending March 31, 1964.**
 NASA-CR-54099, GA-5339,
 N64-27382, 19p. (June 19, 1964).
 (ENGLISH). GENERAL ATOMIC
 DIVISION, GENERAL DYNAMICS
 CORPORATION, SAN DIEGO, CALIF.
- 2735 Schmitt, R. A.
**Research on elemental abundances
 in meteoritic and terrestrial
 matter. Summary progress report,
 September 1, 1963–August 31–1964.**
 N64-32896, 13p. (August 31, 1964).
 (ENGLISH). GENERAL ATOMIC
 DIVISION, GENERAL DYNAMICS
 CORPORATION, SAN DIEGO, CALIF.
- 2736 Fourcy, A.
**Use of activation analysis for
 agricultural products and
 foodstuffs.**
Bull. Inform. Sci. Tech. (Paris),
 No. 99, 57–70 (December 1965).
 (FRENCH) (ENGLISH SUMMARY).
 LABORATOIRE DE BIOLOGIE VEGETALE
 DU CENTRE D'ETUDES NUCLEAIRES DE
 GRENOBLE, FRANCE.
- 2737 Corless, J. T.
**Isotopic abundance studies by
 neutron activation analysis.**
**Annual report, April 15,
 1965–April 14, 1966.**
 NYO-3369-6, 14p.
 (ENGLISH). GRADUATE SCHOOL OF

ACTIVATION ANALYSIS—ACCESSION NUMBERS

OCEANOGRAPHY, UNIVERSITY OF RHODE ISLAND, KINGSTON, R.I.

2738 Nielsen, J. M., Kornberg, H. A.

Multidimensional gamma ray spectrometry and its use in biology.

BNWL-SA-119, 14p. (March 24, 1965).

(ENGLISH). PACIFIC NORTHWEST LABORATORIES, BATTELLE-NORTHWEST, RICHLAND, WASHINGTON.

2739 Johansen, O., Lunde, G., Steinnes, E.

Determination of trace elements in pharmaceuticals by neutron activation analysis.

KR-91, 14p. (February 1965).

(ENGLISH). INSTITUTT FOR ATOMENERGI, KJELLER ESTABLISHMENT, KJELLER, NORWAY.

2740 Wainerdi, R. E., Fite, L. E.

Activation analysis as applied to the petroleum exploration industry.

TID-20467, 16p.

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

2741 Vobecky, M., Mastalka, A., Marecek, J.

The determination of lanthanides in uranium by neutron-activation analysis.

UJV-1151/64, 15p. (February 1965).

(ENGLISH). NUCLEAR ENERGY INFORMATION CENTER OF THE INSTITUTE OF NUCLEAR RESEARCH, REZ, PRAGUE, CZECHOSLOVAKIA.

2744 Oka, Y., Kato, T., Nomura, K.

Activation analysis of cobalt and nickel in iron by means of photonuclear reaction.

Nippon Kagaku Zasshi, **87**, No. 2, 147-153 (1966).

(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, JAPAN.

2746 Wiesner, L.

Radiochemical methods of analysis.

Atomwirtschaft, **10**, 131-133 (March 1965).

(GERMAN). ISOTOPEN-STUDIENGESELLSCHAFT E.V., INSTITUT KARLSRUHE IM KFZ KARLSRUHE, LEOPOLDSHAFEN BEI KARLSRUHE, GERMANY.

2747 Zaitsev, E. I., Malyshev, V. I.

Some possibilities of using physical nuclear analysis methods in geochemical prospecting for ore deposits.

Byul. Nauchn.-Tekhn. Inform. Min. Geol. i Okhrany Nedr SSSR, No. 3, 75-80 (1963).

(RUSSIAN). RUSSIA.

2748 Lustinec, J.

The application of neutron activation chromatography to the determination of the purity of phosphate preparations.

Biol. Plant., (Acad. Sci. Bohemoslov.), **2**, 67-69 (1959).

(ENGLISH) (CZECH SUMMARY). DEPARTMENT OF PLANT PHYSIOLOGY, INSTITUTE OF BIOLOGY, CZECHOSLOVAK ACADEMY OF SCIENCES, PRAGUE, CZECHOSLOVAKIA.

2749 Fujii, I.

Neutron-activation oxygen measuring apparatus.

Genshiryoku Kogyo, **10**, No. 9, 19-26 (September 1964).

(JAPANESE). JAPAN.

2750 Kuznetsov, K. F., Leipunskaya, D.

I., Rogushin, I. I., Savosin, S. I., Shimelevich, Y. S.

Neutron activation analysis of natural rock formations by multichannel spectrometry.

Radiochemical Methods of Analysis, **I**, 277-285, Vienna, International Atomic Energy Agency (1965).

(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.

2751 Amiel, S.

Non-destructive activation analysis based on photoneutron counting.

Radiochemical Methods of Analysis,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- II, 101-110, Vienna,
International Atomic Energy
Agency (1965).
(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). NUCLEAR
CHEMISTRY DEPARTMENT, SOREQ
RESEARCH ESTABLISHMENT, ATOMIC
ENERGY COMMISSION, YAVNE, ISRAEL.
- 2752 Travesi, A., Galiano, J. A.
**Activation analysis of impurity
traces in uranium. Determination
of cobalt.**
Anales Real Soc. Espan. Fis. Quim.
(Madrid), Ser. B, 62, No. 3,
247-257 (1966).
(SPANISH) (ENGLISH SUMMARY).
JUNTA DE ENERGIA NUCLEAR,
DIRRECCION DE QUIMICA E ISOTOPOS,
MADRID, SPAIN.
- 2753 Travesi, A., Galiano, J. A.
**Activation analysis of impurity
traces in uranium. Determination
of copper, chromium, and
manganese.**
Anales Real Soc. Espan. Fis. Quim.
(Madrid), Ser. B, 62, No. 3,
259-273 (1966).
(SPANISH) (ENGLISH SUMMARY).
JUNTA DE ENERGIA NUCLEAR,
DIRRECCION DE QUIMICA E ISOTOPOS,
MADRID, SPAIN.
- 2754 Kjelberg, A., Pappas, A. C.,
Westgaard, L.
**Radiochemical determination of
uranium-235 abundances by
activation analysis.**
Radiochim. Acta, 5, No. 2, 104-109
(1966).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF OSLO,
BLINDERN, NORWAY.
- 2755 De Goeij, J. J. M., Houtman, J. P.
W., Kanij, J. B. W.
**Errors in activation analysis due
to variations in isotopic ratio.**
Radiochim. Acta, 5, No. 2, 117-118
(1966).
(ENGLISH). REACTOR INSTITUUT
DELFT, NETHERLANDS.
- 2756 Kennington, G. S., Ching, C. F. T.
**Activation analysis of ungulate
hair.**
Science, 151, No. 3714, 1085-1086
(1966).
(ENGLISH). DEPARTMENT OF ZOOLOGY
AND PHYSIOLOGY, UNIVERSITY OF
WYOMING, LARAMIE, WYOMING.
- 2757 Girardi, F.
**Some recent developments in
radioactivation analysis. A
review of improvements in the
analytical technique.**
Talanta, 12, 1017-1041 (November
1965).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
LABORATORY, DEPARTMENT OF
CHEMISTRY, EURATOM JOINT NUCLEAR
RESEARCH CENTRE, ISPRA
ESTABLISHMENT, ITALY.
- 2758 Abe, S.
**Activation analysis of alkali
halides by photonuclear reaction.**
Nippon Kagaku Zasshi, 87, No. 5,
426-432 (1966).
(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMICAL
ENGINEERING, YAMAGATA UNIVERSITY,
MOTONAKA-BAKURO-CHO,
YONEZAWA-SHI, JAPAN.
- 2759 Rakovic, M.
**The nondestructive neutron
activation analysis of biological
materials without the use of
gamma spectrometer.**
*Sbornik Referatu III, Celostatni
Radiochemicke Konference*, 2,
299-311, Rez, Ustav Jaderneho
Vyzkumu, Ceskoslovenska Akademie
Ved (1965).
(CZECHOSLOVAKIAN) (ENGLISH
SUMMARY). KATEDA LEK. FYZIKY A
NUKLEARNI MEDICINY FVL UK, PRAHA,
CZECHOSLOVAKIA.
- 2760 Sterlinski, S.
**The regression and correlation in
scintillation gamma-ray
spectrometry of short-lived
radioisotopes.**
Acta Phys. Pol., 28, 533-543
(October 1965).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.

2761 Pasztor, E., Klopfer, E.

A small portable neutron generator for activation analysis.

Instruments and Experimental Techniques, USSR, No. 4, 770-772 (July-August 1965).

(ENGLISH TRANSLATION). THE CENTRAL PHYSICS RESEARCH INSTITUTE. HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY.

2762 Schroeder, G. L., Kraner, H. W.,

Evans, R. D., Brydges, T.

Lithium drifted germanium detectors. Applications to neutron activation analysis.

Science, 151, No. 3712, 815-817 (18 February 1966).

(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

2763 Schilling, J. G., Winchester, J. W.

Rare earths in Hawaiian basalts.

Science, 153, 867-869 (19 August 1966).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS.

2764 Babikova, Y. F., Minaev, V. M., Samosadnyi, V. T.

Determination of impurities in steel by neutron-activation analysis.

Zavodsk. Lab., 32, 47-49 (1966).

(RUSSIAN). RUSSIA.

2765 Travesi Jimenez, A.

Application of activation analysis to criminal investigation.

Energia Nucl. (Madrid), 9, 217-225 (May-June 1965).

(SPANISH). JUNTA DE ENERGIA NUCLEAR. DIRECCION DE QUIMICA E ISOTOPOS. SECCION DE RADIOQUIMICA.

2766 Sorantin, H., Patek, P.

Activation analytical investigations of polyethylenes.

Z. Anal. Chem., 211, 99-113 (1965).

(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR CHEMIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.

2767 Pfrepper, G.

Coefficient of perturbation for the characterization of perturbation reactions in activation analysis.

Z. Anal. Chem., 217, No. 2, 99-101 (1966).

(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR ANGEWANDTE RADIOAKTIVITAT DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, LEIPSIG, GERMANY.

2768 Roth, E., Cornu, A., Albert, P.

Comparison between certain modern methods of trace analysis. Mass spectrometry, isotopic dilution and activation.

Z. Anal. Chem., 218, No. 1, 24-40 (1966).

(FRENCH) (ENGLISH AND GERMAN SUMMARIES). SERVICE DES ISOTOPES STABLES C.E.N. SACLAY (S AND O), FRANCE.

2769 Neeb, K. H., Stockert, H., Gebauhr, W.

Determination of impurities in high purity aluminum by activation analysis.

Z. Anal. Chem., 219, No. 1, 69-76 (1966).

(GERMAN) (ENGLISH SUMMARY). FORSCHUNGLABORATORIUM DER SIEMENS-SCHUCKERTWERKE AG, ERLANGEN, GERMANY.

2770 Ames Laboratory

Chemistry division.

IS-1200, Section C, 105p. (August 1965).

(ENGLISH). AMES LABORATORY, AMES, IOWA.

2772 Fritz, G. J., Han, I. G., Ellis, W. H.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Analysis of oxygen-18 in carbon dioxide by thermal neutron activation.**
Intern. J. Appl. Radiation Isotopes, **16**, 431-437 (July 1965).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.
- 2773 Kirchmann, R., Roderbourg, J.
Determination of the arsenic in vegetables by radioactivation and gamma-spectrometry techniques.
Intern. J. Appl. Radiation Isotopes, **16**, 457-460 (August 1965).
 (FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, MOL, BELGIUM.
- 2774 Vogt, J. R., Ehmann, W. D., Mc Ellistrem, M. T.
An automated system for rapid and precise fast neutron activation analysis.
Intern. J. Appl. Radiation and Isotopes, **16**, 573-580 (October 1965).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 2775 Gobrecht, H., Bock-Werthmann, W., Tausend, A., Bratter, P., Willers, G.
Determination of chlorine and sodium in selenium by non-destructive neutron activation analysis.
Intern. J. Appl. Radiation and Isotopes, **16**, 655-659 (November 1965).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). PHYSIKALISCHES INSTITUT DER TECHNISCHEN UNIVERSITAT, BERLIN, GERMANY.
- 2776 Wester, P. O.
Trace elements in the conductive tissue of beef heart determined by neutron activation analysis.
 AE-191, 19p. (1965).
- (ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.
- 2777 Rook, H. L.
New techniques in the gamma activation analysis of beryllium.
 MLM-1256, 5p. (April 19, 1965).
 (ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.
- 2778 Twitty, B. L.
The neutron activation facility at the National Lead Company.
 NLCO-955, 2.1-2.12 (August 11, 1965).
 (ENGLISH). NATIONAL LEAD COMPANY OF OHIO, CINCINNATI, OHIO.
- 2779 Kramer, J., Bailey, M. R.
A versatile sequential programming timer.
 NLCO-955, 3.1-3.7 (August 11, 1965).
 (ENGLISH). NATIONAL LEAD COMPANY OF OHIO, CINCINNATI, OHIO.
- 2782 Ruch, R. R., Madigan, S. B., Guinn, V. P.
Applications of neutron activation analysis in scientific crime detection. Quarterly report for the period ending July 31, 1963.
 GA-4576, 24p. (August 30, 1963).
 (ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIF.
- 2786 Doshi, G. R.
Micro determination of copper in biomaterials by neutron activation analysis.
Current. Sci. (India), **34**, 478 (August 20, 1965).
 (ENGLISH). HEALTH PHYSICS DIVISION, ATOMIC ENERGY ESTABLISHMENT, TROMBAY, BOMBAY, INDIA.
- 2787 Eastwood, T. A.
Neutron flux measurements with cobalt.
Intern. J. Appl. Radiation Isotopes, **17**, No. 1, 17-28 (1966).

ACTIVATION ANALYSIS - ACCESSION NUMBERS

(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). ATOMIC ENERGY OF CANADA, LIMITED, CHALK RIVER, ONTARIO, CANADA.

2788 Gebauhr, W.

Separation process with general application to activation analyses.

Radiochim. Acta, 5, No. 1, 8-14 (1966).

(GERMAN). SIEMENS SCHUCKERT WERKE AG, ERLANGEN, GERMANY.

2789 Wahl, W. H., Nass, H. W., Kramer, H. H.

Use of stable isotopes and activation analysis for in vivo diagnostic studies.

CONF-651111, *Symposium in Medicine No. 9, Radioactive Pharmaceuticals, Oak Ridge, Tennessee, November 1-4, 1965*, 191-204 (April 1966).

(ENGLISH). UNION CARBIDE CORPORATION, STERLING FOREST RESEARCH CENTER, TUXEDO, N.Y.

2790 Guinn, V. P., Madigan, S. C., Ruch, R. R.

Applications of neutron-activation analysis in scientific crime detection. Quarterly report for the period ending April 30, 1963.

GA-4297, 22p. (May 31, 1963).

(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIF.

2791 Guinn, V. P.

Applications of neutron-activation analysis in scientific crime detection. Quarterly report for the period ending July 31, 1962.

GA-3491, 36p. (September 18, 1962).

(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.

2792 Guinn, V. P., Ruch, R. R., Bellanca, S. C.

Applications of neutron-activation analysis in scientific crime detection. Quarterly report for the period ending January 31,

1963.

GA-4041, 19p. (February 28, 1963).

(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.

2793 Buchanan, J. D., Ruch, R. R.

Applications of neutron-activation analysis in scientific crime detection. Quarterly report for the period ending October 31, 1962.

GA-3664, 27p. (November 15, 1962).

(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.

2794 Pietra, R., Sabbioni, E.

Determination of sulfur in terphenyl by neutron activation.

EUR-2523.I, 20p. (1965).

(ITALIAN). CENTRO COMUNE DI RICERCA NUCLEARE STABILIMENTO D'ISPRA, ITALY.

2795 Moauro, A., Cesarano, C.

Rapid determination of manganese and arsenic content in steel by neutron activation analysis.

RT-CHI (65)36, 17p. (October 1965).

(ITALIAN) (ENGLISH SUMMARY). COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, ITALY.

2796 Colorado School of Mines Research Foundation, Inc.

Feasibility experiments related to trace analysis of fluorine in zinc electrorefining solutions by fast neutron activation and coincidence counting techniques. Interim report No. 3.

TID-22662, 21p. (February 23, 1966).

(ENGLISH). COLORADO SCHOOL OF MINES RESEARCH FOUNDATION, INC., GOLDEN, COLORADO.

2797 Marble, G., Bernier, M., Bertet, M., Gaude, G.

Determination of sodium and potassium in biological media by neutron activation without chemical separation.

CEA-R-2837, 28p. (July 1965).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (FRENCH) (ENGLISH SUMMARY).
CENTRE D'ETUDES NUCLEAIRES DE
FONTENAY-AUX-ROSES, FRANCE.
- 2798 Twitty, B. L., Fritz, K. M.
**A rapid determination of oxygen in
high-purity magnesium chips by
neutron activation analysis.**
NLCO-973, 23p. (May 1966).
(ENGLISH). NATIONAL LEAD COMPANY
OF OHIO, CINCINNATI, OHIO.
- 2799 Wing, J., Wahlgren, M. A.
**Detection sensitivities in
thermal-neutron activation.**
ANL-6953, 106p. (December 1965).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 2800 Ikeda, N., Kondo, Y., Yamashita,
H.
**Determination of the rare earth
elements in hot spring water by
the radioactivation method.**
Radioisotopes (Tokyo), **14**, 357-362
(September 1965).
(ENGLISH) (JAPANESE SUMMARY).
DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOKYO UNIVERSITY OF
EDUCATION, KOISHIKAWA, TOKYO,
JAPAN.
- 2801 Lawrence Radiation Laboratory
Instrumentation.
UCRL-16580, 219-250 (January
1966).
(ENGLISH). LAWRENCE RADIATION
LABORATORY, BERKELEY, CALIFORNIA.
- 2802 Lepetit, H.
**Microdetermination of oxygen in
metals by radioactive reagents
and by activation with fast
neutrons at 14 MeV.**
LYCEN-6524, 115p. (July 21, 1965).
(FRENCH). L'UNIVERSITE DE LYON,
FRANCE.
- 2803 Glubrecht, H.
**Activation analysis and textile
research.**
NP-TR-1293, 15p. (September 1964).
(ENGLISH TRANSLATION). INSTITUT FUR
STRAHLENBIOLOGIE, TECHNISCHE
HOCHSCHULE, HANNOVER, GERMANY.
- 2804 Okada, T., Ikeya, M., Suita, T.,
Kawai, K.
**Neutron activation analysis of
divalent ions in alkali halide
crystals.**
Radioisotopes (Tokyo), **15**, 14-18
(1966).
(ENGLISH) (JAPANESE SUMMARY).
DEPARTMENT OF NUCLEAR
ENGINEERING, FACULTY OF
ENGINEERING, OSAKA UNIVERSITY,
OSAKA, THE MARINE TECHNICAL
COLLEGE, ASHIYA CITY, HYOGO,
JAPAN.
- 2805 Pijck, J.
**Determination of colloidal gold by
radioactivation using thermal
neutrons.**
J. Pharm. Belg., **20**, No. 7-8,
300-310 (1965).
(FRENCH) (DUTCH AND ENGLISH
SUMMARIES). LABORATOIRE DE
CHIMIE ANALYTIQUE, FACULTE DE
MEDECINE, UNIVERSITE DE GAND,
BELGIUM.
- 2806 Bujdoso, E., Hegedues, D., Mathe,
F., Nagy, L. G., Ordogh, M.
**Possible development of neutron
activation analysis in Hungary.**
Magyar Kem. Lap., **21**, 155-159
(March 1966).
(HUNGARIAN) (ENGLISH SUMMARY).
BUDAPEST, HUNGARY.
- 2807 Bujdoso, E., Miskei, M., Ormos, G.
**Activation analysis. Bibliography
II.**
Melleklet, **6**, No. 5, 87p. (1963).
(HUNGARIAN) (ENGLISH AND RUSSIAN
SUMMARIES). FEMIPARI KUTATO
INTEZET, BUDAPEST, HUNGARY.
- 2811 Talwar, U. B., Haldar, B. C.
**Separation of rhenium from
molybdenum, tungsten, vanadium,
selenium and arsenic by
extraction with quinoline.**
Indian J. Chem., **3**, No. 10,
452-453 (1965).
(ENGLISH). DEPARTMENT OF
INORGANIC AND NUCLEAR CHEMISTRY,
INSTITUTE OF SCIENCE, BOMBAY,
INDIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 2812 Abrao, A.
An ion exchange-EDTA separation of lead from bismuth, application to radiochemistry.
Primera Conferencia Interamericana de Radioquímica, 89-91, Washington, D.C. Union Panamericana (1965).
 (ENGLISH). DIVISAO DE RADIOQUIMICA, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 2813 Borner, W., Hamann, W., Moll, E.
Yield and degree of contamination in the separation of iodine-132 from tellurium-132 by distillation and column chromatography.
Nucl. Med., **3**, 118-119, 277-289 (1962).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). AUS DER MEDIZINISCHEN POLIKLINIK DER UNIVERSITAT WURZBURG, GERMANY.
- 2819 Wester, P. O.
Trace elements in human myocardial infarction determined by neutron activation analysis.
Acta Med. Scand., **178**, 765-768 (December 1965).
 (ENGLISH). DEPARTMENT OF MEDICINE, KAROLINSKA INSTITUTET AT SERAFIMERLASARETTET, STOCKHOLM, SWEDEN.
- 2821 Moav, B.
The determination of manganese in urine by neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **16**, 365-369 (June 1965).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). ATOMIC ENERGY COMMISSION, YAVNE, ISRAEL.
- 2830 Moshier, R. W.
Analytical chemistry of niobium and tantalum.
Analytical Chemistry of Niobium and Tantalum, 278p., New York, Pergamon Press Inc. (1964).
 (ENGLISH). AEROSPACE RESEARCH
- LABORATORIES, WRIGHT-PATTERSON AIR FORCE BASE, OHIO.
- 2836 Pauly, J., Sabbioni, E., Girardi, F.
The use of activation analysis for determining specific activities during quantitative analysis by isotopic dilution.
Radiochemical Methods of Analysis, **II**, 297-309, Vienna, Austria. International Atomic Energy Agency (1965).
 (FRENCH) (ENGLISH, RUSSIAN AND SPANISH SUMMARIES). EURATOM, CENTRE COMMUN DE RECHERCHES, ISPRA, VARESE, ITALY.
- 2838 Das, H. A., Van Raaphorst, J. G., Hoede, D., Zonderhuis, J.
The determination of mercury in potato flour.
Intern. J. Appl. Radiation Isotopes, **17**, 252-253 (April 1966).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, N.H., NETHERLANDS.
- 2839 Crocket, J. H., Skippen, G. B.
Radioactivation determination of palladium in basaltic and ultrabasic rocks.
Geochim. Cosmochim. Acta, **30**, 129-141 (January 1966).
 (ENGLISH). DEPARTMENT OF GEOLOGY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 2840 Gebauhr, W.
A separation process for general use in activation analysis. Part I.
Radiochimica Acta, **4**, 191-197 (December 1965).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). SIEMENS SCHUCKERT WERKE AG, ERLANGEN, GERMANY.
- 2844 Ruf, H., Von Baeckmann, A.
Activation analytical determination of very small iridium contents in uranium oxide.
Z. Anal. Chem., **215**, 176-181

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (1966).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR RADIOCHEMIE,
KERNFORSCHUNGSZENTRUM KARLSRUHE,
GERMANY.
- 2845 Zeman, A., Prasilova, J., Ruzicka,
J.
**Substoichiometric determination of
manganese by neutron-activation
analysis.**
Talanta, **13**, 457-462 (March 1966).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
NUCLEAR CHEMISTRY, FACULTY OF
TECHNICAL AND NUCLEAR PHYSICS,
PRAGUE, BREHOVA, CZECHOSLOVAKIA.
- 2846 Hilton, D. A., Reed, D.
**The determination of activation
products in irradiated steels by
anion exchange separation and
gamma-ray spectrometry.**
Analyst, **90**, 541-544 (September
1965).
(ENGLISH). CENTRAL ELECTRICITY
GENERATING BOARD, BERKELEY
NUCLEAR LABORATORIES, BERKELEY,
GLOUCESTERSHIRE, ENGLAND.
- 2848 Slowey, J. F., Hedges, D. H.,
Hood, D. W.
**The chemistry and analysis of
trace metals in sea water.**
**Progress report No. 2, August 1,
1961–November 1, 1962.**
TID-22660, 70p. (October 31,
1962).
(ENGLISH). DEPARTMENT OF
OCEANOGRAPHY AND METEOROLOGY,
TEXAS A AND M, COLLEGE STATION,
TEXAS.
- 2849 Chomel, N.
**Determination of sulfur and
phosphorus by radioactivation.**
Thesis. Lyon University, France,
42p. (1964).
(FRENCH). UNIVERSITE DE LYON,
FRANCE.
- 2852 Landstrom, O., Wenner, C. G.
**Neutron-activation analysis of
natural water applied to
hydrogeology.**
AE-204, 28p. (December 1965).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STOCKHOLM, SWEDEN.
- 2853 Dahl, J. B., Steinnes, E.
**Determination of selenium in
animal tissue by neutron
activation analysis.**
KR-95, 6p. (July 1965).
(ENGLISH). INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.
- 2865 May, S., Piccot, D.
**Determination of silicon by
neutron radioactivation and
application to nuclear graphites
and alumina. Study of
interferences.**
Bull. Soc. Chim. France, No. 1,
332-335 (January 1966).
(FRENCH). CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, DEPARTEMENT
DE PHYSICO-CHIMIE, SERVICE DE
PHYSICO-CHIMIE APPLIQUEE, FRANCE.
- 2870 Abdel-Rassoul, A. A., Wahba, S.
S., Abdel-Aziz, A.
**Determination of certain trace
impurities in uranium
concentrates by activation
analysis.**
Talanta, **13**, 381-387 (March 1966).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
DEPARTMENT, ATOMIC ENERGY
ESTABLISHMENT, INCHASS, U.A.R.
- 2871 Brune, D.
**The Szilard-Chalmers effect
applied in the neutron activation
analysis of biological samples.**
Anal. Chim. Acta, **34**, 447-455
(April 1966).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). AB ATOMENERGI,
STUDSVIK, SWEDEN.
- 2873 Duce, R. A., Winchester, J. W.
**Determination of iodine, bromine,
and chlorine in atmospheric
samples by neutron activation
analysis.**
Radiochim. Acta, **4**, 100-104 (June
1965).
(ENGLISH) (FRENCH AND GERMAN

ACTIVATION ANALYSIS—ACCESSION NUMBERS

SUMMARIES). DEPARTMENTS OF GEOLOGY AND GEOPHYSICS AND OF CHEMISTRY, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

2876 Fourcy, A.

Some aspects of the determination of metals in vegetable products using neutron activation analysis.

Compt. Rend., **261**, 830–833 (July 19, 1965).

(FRENCH). LABORATOIRE DE BIOLOGIE VEGETALE, CENTRE D'ETUDES NUCLEAIRES, GRENOBLE, ISERE, FRANCE.

2878 Simkova, M., Kukula, F., Stejskal, R.

Iron determination in antimony by activation analysis.

Collection Czech. Chem. Commun., **30**, 3193–3197 (September 1965).

(GERMAN) (RUSSIAN SUMMARY). INSTITUT FÜR KERNFORSCHUNG, TSCHECHOSLOWAKISCHE AKADEMIE DER WISSENSCHAFTEN, REZ BEI PRAG, CZECHOSLOVAKIA.

2881 Healy, W. B., Bate, L. C.

Determination of molybdenum in hair and wool by neutron activation analysis.

Anal. Chim. Acta, **33**, 443–448 (October 1965).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.

2882 Kosta, L., Cook, G. B.

Application of activation analysis to the determination of some impurities in nuclear-grade uranium.

Talanta, **12**, 977–987 (November 1965).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INTERNATIONAL ATOMIC ENERGY AGENCY, SEIBERSDORF LABORATORY, SEIBERSDORF, NEIDEROESTERREICH, AUSTRIA.

2887 Kudo, K.

Radioactivation analysis based on quantitative isotope dilution principle—determination of trace amounts of gold by a comparison method.

Nippon Kagaku Zasshi, **86**, 1050–1053 (October 1965).

(JAPANESE) (ENGLISH SUMMARY). IBARAKI BRANCH, ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, NAKA-GUN, IBARAKI, JAPAN.

2888 Chung, K. S., Lee, C.

An improved method for the determination of scandium by neutron activation analysis.

J. Korean Chem. Soc., **8**, 88–91 (1964).

(ENGLISH) (KOREAN SUMMARY). ATOMIC ENERGY RESEARCH INSTITUTE, SEOUL, KOREA.

2889 Sakanoue, M., Takagi, T., Abe, M., Oosawa, M.

Activation analysis of ^{231}Pa followed by γ -ray spectrometry of ^{232}Pa and ^{233}Pa .

Nippon Genshiryoku Gakkaishi, **7**, 404–409 (August 1965).

(JAPANESE) (ENGLISH SUMMARY). FACULTY OF SCIENCE, KANAZAWA UNIVERSITY, JAPAN.

2892 Pijck, J.

Practical applications of analysis by radioactivation. Determination of manganese in botanical samples.

J. Pharm. Belg., **20**, 131–136 (March–April 1965).

(FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE ANALYTIQUE, FACULTE DE MEDECINE, UNIVERSITE DE GAND, BELGIUM.

2901 Girardi, F., Merlini, M., Pauly, J., Pietra, R.

Progress towards automated radiochemical separations.

Radiochemical Methods of Analysis, **I**, 3–14, Vienna, International Atomic Energy Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- SPANISH SUMMARIES). EURATOM JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, VARESE, ITALY.
- 2902 Palino, G. F.
Neutron activation analysis of rhenium in rocks.
 Thesis. Iowa State University of Science and Technology, 56p. (July 1965).
 (ENGLISH). IOWA STATE UNIVERSITY, AMES, IOWA.
- 2904 Da Silva Filho, J. G., Abrao, A., Lima, F. W.
Activation analysis of gold in ores samples.
 IEA-98, 20p. (August 1965).
 (ENGLISH). RADIOCHEMISTRY DIVISION, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 2920 Kawashima, T.
One useful method in activation analysis. Determination of impurities in yttrium.
Denki Tsushin Kenkyusho Kenkyu Jitsuyoka Hokoku, 13, 1835-1843 (November 1964).
 (JAPANESE). JAPAN.
- 2921 Rakovic, M.
Application of neutron activation analysis for determining properties of organic materials.
Jaderna Energie, 11, 182-183 (May 1965).
 (CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYZIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KARLOVY UNIVERSITY, PRAHA, CZECHOSLOVAKIA.
- 2922 Pocze, L.
Activation analysis of metals.
Kohasz. Lapok, 96, 179-183 (April 1963).
 (HUNGARIAN). HUNGARY.
- 2923 Stefanov, G., Zivkov, Z., Georgiev, N., Popov, C., Michajlov, M., Nenov, N., Tomov, T., Tolgyessy, J.
- Determination of gold in mineral raw materials by means of neutron activation analysis.**
Chem. Zvesti, 18, 661-668 (September 1964).
 (CZECHOSLOVAKIAN). LABORATORJA AKTIVACIONEN ANALIZ, SOFIJA, BULGARIA.
- 2924 Bondy, C.
The Radiochemical Laboratory of l'Atome Industriel.
Chim. Anal., 48, 23-31 (January 1966).
 (FRENCH). FRANCE.
- 2926 Gomez, H., Baro, G. B.
Neutron activation analysis of human hairs and nails for determining arsenic traces.
Primera Conferencia Interamericana de Radioquimica, 51-55, Washington, D.C. Union Panamericana (1965).
 (SPANISH). COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES, ARGENTINA.
- 2927 Platzter, R., Baudin, G.
The influence of the imperatives of utilization and of the production possibilities on the choice of analytical methods.
Bull. Soc. Chim. France, No. 2, 535-538 (February 1965).
 (FRENCH). COMMISSARIAT A L'ENERGIE ATOMIQUE, SERVICE DE CHIMIE, SECTION D'ETUDES ANALYTIQUES, CEN, SACLAY, FRANCE.
- 2929 Brown, R. C., Weaver, M. L., Steen, H.
Quantitative determination of copper in potato tissue using neutron activation analysis and electrodeposition of copper.
Anal. Biochem., 16, No. 1, 119-131 (1966).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON.
- 2930 Giambastiani, R., Da Silva Filho, J. G., Lima, F. W.
Determination of chlorine and copper in high purity water by

ACTIVATION ANALYSIS—ACCESSION NUMBERS

radioactivation analysis.

IEA-97, 14p. (August 1965).

(ENGLISH) (FRENCH AND SPANISH SUMMARIES). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.

2931 Leddicotte, G. W., Emery, J. F., Bate, L. C.

The assay, characteristics, composition, and origin of opium. I. The preliminary study on the use of activation analysis in the determination of the origin of opium.

ORNL-TM-1263, 22p. (September 7, 1965).

(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

2932 Minczewski, J., Dybczynski, R.

Determination of rare earths by neutron activation method using ion-exchange chromatography. Analysis of spectrally pure erbium oxide.

Chem. Anal. (Warsaw), **10**, 1113-1122 (1965).

(ENGLISH) (POLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.

2933 Gorin, E., Yavorsky, P. M.

Critical evaluation of the status of the neutron activation method for coal analysis. Report No. 1.

TID-22474, 28p. (June 16, 1964).

(ENGLISH). USA.

2934 Kwiecinski, S., Matula, J.

The application of several methods of nuclear physics and radiochemistry for investigations and measurements in the cement and lime industry.

Cement-Wapno-Gips, No. 7-8, 167-174 (1963).

(POLISH) (ENGLISH SUMMARY). INSTYTUT TECHNIKI JADROWEJ AGH, POLAND.

2936 Albert, P.

Application of radioelements to investigating the purification of metals by the zone refining method. Systematic analysis after irradiation with neutrons.

New Physical and Chemical Properties of Metals of Very High Purity, 1-51, New York, Gordon and Breach Science Publishers (1965).

(ENGLISH). METALLURGICAL CHEMICAL RESEARCH CENTER, VITRY, FRANCE.

2937 Keenan, R. G.

Recent advances in physical methods of analysis.

Arch. Environ. Health, **10**, 583-592 (April 1965).

(ENGLISH). US DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, PUBLIC HEALTH SERVICE, DIVISION OF OCCUPATIONAL HEALTH, CINCINNATI, OHIO.

2938 Kennedy, J. H.

Analysis of diseased and normal lung tissue for trace antimony content by neutron activation analysis.

Amer. J. Med. Sci., **251**, 37-39 (January 1966).

(ENGLISH). DEPARTMENT OF SURGERY, WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE AND CLEVELAND METROPOLITAN GENERAL HOSPITAL, CLEVELAND, OHIO.

2939 Guinn, V. P.

Modern neutron activation analysis: New techniques and new applications.

Primera Conferencia Interamericana de Radioquímica, 317-327, Washington, D.C. Union Panamericana (1965).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIFORNIA.

2940 Tatar, J.

The application of neutron-activation for quick analysis of bauxites.

Geofiz. Kozlemen., **13**, 463-475 (1964).

(HUNGARIAN) (RUSSIAN AND ENGLISH SUMMARIES). BUDAPEST, HUNGARY.

2941 Tatar, J.

The application of nuclear

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- geophysics to determine the quality of coals.
Geofiz. Kozlemen., 13, 477–493 (1964).
(HUNGARIAN) (RUSSIAN AND ENGLISH SUMMARIES). BUDAPEST, HUNGARY.
- 2942 Smith, H.
Estimation of arsenic in biological tissue by activation analysis. Part 1.
J. Forensic Medicine, 8, 165–171 (1961).
(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND.
- 2943 Lenihan, J. M. A.
The application of nuclear physics to the study of historical problems.
Trans. Rhodesia Sci. Assn., 50, 80–85 (1964).
(ENGLISH). WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.
- 2945 Sayre, E. V.
Refinement in methods of neutron activation analysis of ancient glass objects through the use of lithium drifted germanium diode counters.
BNL–9614, 28p. (1965).
(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 2946 Borg, D. C.
Biological and medical applications of radioactivation analysis.
BNL–10130, 23p. (April 5, 1966).
(ENGLISH). BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 2947 Steele, E. L.
Variable-energy neutron activation analysis.
GA–6691, 44p. (September 17, 1965).
(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.
- 2948 Steele, E. L.
³He charged particles in activation analysis. Final report.
GA–6568, 35p. (July 15, 1965).
(ENGLISH). GENERAL ATOMIC, GENERAL DYNAMICS, SAN DIEGO, CALIFORNIA.
- 2949 Holm, D. M.
Measurement of the microscopic distribution of oxygen and carbon in metals by ³He activation.
LA–DC–7319, 4p.
(ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, N.M.
- 2950 Kiesel, W., Sorantin, H., Bildstein, H.
Determination of impurities in aluminum by means of activation analysis.
Atompraxis, 12, No. 3, 130–135 (March 1966).
(GERMAN). INSTITUT FÜR CHEMIE, REAKTORZENTRUM SEIBERSDORF, ÖSTERREICH, AUSTRIA.
- 2951 Alian, A.
Activation analysis through addition of "standard" and solvent extraction. Principle of the method.
AEET–217, 5p. (1965).
(ENGLISH). ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, INDIA.
- 2954 Campa, J. P.
Investigation of rapid separation techniques for Ge, Se, and As for the purpose of activation analysis.
Primera Conferencia Interamericana de Radioquímica, 57–60, Washington, D.C. Union Panamericana (1965).
(SPANISH). COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES, ARGENTINA.
- 2956 Tatar, J.
Operational control of the applicability of activation analysis to the bauxite industry.
Atomtech. Tajekoztato, 8, 15–17

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(1965).

(HUNGARIAN). HUNGARY.

2957 Tsetskhladze, T. V., Felker, V. M., Kolomiitsev, M. A.

Activation detector for thermal neutrons.

At. Energ. (USSR), **20**, 272-273 (March 1966).

(RUSSIAN). RUSSIA.

2958 Smith, H.

Arsenic in biological tissue. Its estimation by activation analysis. Part 2.

J. Forensic Medicine, **9**, 143-149 (October-December 1962).

(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF GLASGOW, SCOTLAND.

2959 Ruch, R. R., Buchanan, J. D., Guinn, V. P., Bellanca, S. C., Pinker, R. H.

Neutron activation analysis in scientific crime detection—some recent developments.

J. Forensic Science, **9**, 119-133 (January 1964).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIFORNIA.

2963 Juliano, J. O.

Activation analysis by photoneutron counting.

Sci. Rev., **6**, 8-18 (January-February 1965).

(ENGLISH). PHILIPPINE ATOMIC RESEARCH CENTER, MANILA, PHILIPPINES.

2964 Laconi, A., Brancato, G., Melfi, F.

Dosimetry of colloidal radio-gold by means of neutron activation analysis with a low power reactor.

Radiol. Med., **51**, 112-122 (October 1965).

(ITALIAN) (FRENCH AND ENGLISH SUMMARIES). UNIVERSITA DI PALERMO, ITALY.

2965 Berzin, A. K., Sulin, V. V.,

Belov, V. I., Vitozhents, G. C.,

Martynov, Y. T., Suslow, V. G., Shornikov, S. I.

Gamma-activation analysis of rock and ore samples.

STI/PUB/112, *Radioisotope Instruments in Industry and Geophysics*, 323-347, Vienna, International Atomic Energy Agency (1966).

(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.

2966 Filippov, E. M., Zhavoronkov, V. Y., Vakhtin, B. S.

Studies on the development of equipment and a method for determining certain elements using resonance and thermal neutrons.

STI/PUB/112, *Radioisotope Instruments in Industry and Geophysics*, 151-158, Vienna, International Atomic Energy Agency (1966).

(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.

2968 Sanchez Izquierdo, J., Tanarro Sanz, A., Rodriguez Mayquez, E.
Automatic system for acquisition of nuclear data with paper tape output.

Automatic Acquisition and Reduction of Nuclear Data, 458-462, Karlsruhe, Germany, Gesellschaft fur Kernforschung MBH (1964). *MBH*, 458-462, 1964.

(ENGLISH). JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN.

2969 Johnson, P., Weber, E. J., Carter, H. E., Krober, M. S.

Detection of phospholipids on paper chromatograms by neutron activation.

J. Lipid Res., **6**, 425-427 (July 1965).

(ENGLISH). BIOCHEMISTRY DIVISION, NOYES LABORATORY OF CHEMISTRY, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.

2970 Malvano, R.

Neutron activation analysis in metallurgy.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Atompraxis, 11, No. 6, 309–314
(June 1965).

(ENGLISH). SORIN CENTRO RICERCHE
NUCLEARI, SALUGGIA, ITALY.

At. Energy Australia, 8, 10–14
(April 1965).

(ENGLISH). DEPARTMENT OF
GEOPHYSICS, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, AUSTRALIA.

2971 Nielsen, J. M., Kornberg, H. A.

**Multidimensional gamma-ray
spectrometry and its use in
biology.**

*Radioisotope Sample Measurement
Techniques in Medicine and
Biology*, 3–15, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). BATTELLE
MEMORIAL INSTITUTE, PACIFIC
NORTHWEST LABORATORY, RICHLAND,
WASHINGTON.

2972 Mulvey, P. F., Cardarelli, J. A.,
Meyer, R. A., Cooper, R. D.,
Burrows, B. A.

**Sensitivity of bremsstrahlung
activation analysis for iodine
determination.**

*Radioisotope Sample Measurement
Techniques in Medicine and
Biology*, 249–258, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). BOSTON
VETERANS ADMINISTRATION HOSPITAL,
U.S. ARMY NATICK LABORATORIES,
AND BOSTON UNIVERSITY SCHOOL OF
MEDICINE, BOSTON, MASSACHUSETTS.

2973 Hori, R.

**The activation analysis of sodium
and potassium in biological
material.**

*Radioisotope Sample Measurement
Techniques in Medicine and
Biology*, 259–264, Vienna,
International Atomic Energy
Agency (1965).

(ENGLISH) (FRENCH, RUSSIAN AND
SPANISH SUMMARIES). BIOLOGICAL
INSTITUTE, TOYAMA UNIVERSITY,
TOYAMA, JAPAN.

2975 Ehmann, W. D.

**Automated fast neutron activation
analysis.**

2976 Gangadharan, S., Sankar Das, M.
**Particle size distribution by
activation sedimentation.**

*Proceedings of the Nuclear and
Radiation Chemistry Symposium*,
1964, 175–179, Trombay, India,
Atomic Energy Establishment
(1965).

(ENGLISH). ANALYTICAL DIVISION,
ATOMIC ENERGY ESTABLISHMENT
TROMBAY, BOMBAY, INDIA.

2977 Hingorani, S. B., Chandrasekaran,
V. R.

**Determination of stable strontium
in milk by neutron activation
analysis.**

*Proceedings of the Nuclear and
Radiation Chemistry Symposium*,
1964, 66–68, Trombay, India,
Atomic Energy Establishment
(1965).

(ENGLISH). HEALTH PHYSICS
DIVISION, ATOMIC ENERGY
ESTABLISHMENT TROMBAY, BOMBAY,
INDIA.

2978 Ruch, R. R., De Voe, J. R.

**Radiochemical separation of copper
by amalgam exchange.**

Anal. Chem., 39, No. 11, 1333–1335
(September 1967).

(ENGLISH). ACTIVATION ANALYSIS
SECTION, ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

2979 Lobanov, E. M., Khusnutdinov, R.
I.

**Determination of hafnium in
zircons and their products by the
neutron-activation method without
radiochemical separation.**

Dokl. Akad. Nauk UzSSR, No. 1,
31–34 (1966).

(RUSSIAN). RUSSIA.

2981 Morgan, D. J., Duxbury, G.

The determination of chlorinated

ACTIVATION ANALYSIS—ACCESSION NUMBERS

hydrocarbons in the atmosphere by activation analysis.

Ann. Occupational Hyg., **8**, 253–256 (July 1965).

(ENGLISH). HEALTH PHYSICS AND MEDICAL DIVISION, AERE, HARWELL, ENGLAND.

2982 Pendharkar, M. S., Reddy, G. R.

Determination of iodide in presence of large amounts of bromide and chloride by neutron activation analysis.

Proceedings of the Nuclear and Radiation Chemistry Symposium, 1964, 63–65, Trombay, India, Atomic Energy Establishment (1965).

(ENGLISH). ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT, TROMBAY, BOMBAY, INDIA.

2983 Perdijon, J.

The rapid and nondestructive determination of oxygen in steels by radioactivation.

Bull. Inform. A.T.E.N., No. 57, Suppl., 3–6 (January–February 1966).

(FRENCH). CIVIL DES MINES A LA S.A.M.E.S., FRANCE.

2984 Rao, S. R., Khan, A. A., Kamath, P. R.

Stable strontium in sea water by activation technique.

Proceedings of the Nuclear and Radiation Chemistry Symposium, 1964, 199–204, Trombay, India, Atomic Energy Establishment (1965).

(ENGLISH). HEALTH PHYSICS DIVISION, ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, INDIA.

2985 Smith, H., Lenihan, J. M. A.

Biological applications of activation analysis.

Methods of Forensic Science, **III**, 59–111, Curry, A.S. (Ed.), Interscience, London (1964).

(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW, SCOTLAND.

2987 New Brunswick Laboratory, AEC
Annual progress report for the period July 1964 through June 1965.

NBL-230, 85p. (December 1965).
(ENGLISH). NEW BRUNSWICK LABORATORY, AEC, NEW BRUNSWICK, N.J.

2989 Dybczynski, R., Sterlinski, S.

Determination of traces of cesium in mineral salts by means of neutron activation – ion exchange chromatography method.

Proceedings of the Analytical Chemical Conference, Budapest, 398–407 (1966).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION OF THE INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.

2990 Rakovic, M., Martincova, Z.

Random errors in neutron-activation analysis.

Atompraxis, **12**, No. 6, 306–307 (1966).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR MEDICINE OF THE MEDICAL FACULTY, CHARLES UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.

2991 Lieberman, K. W.

The determination of bromine in terrestrial and extraterrestrial materials by neutron activation analysis.

ORO-2670-13, 166p. (July 1, 1966).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

2998 Nielsen, J. M., Beasley, T. M.

Radiochemical determination of plutonium for radiological purposes.

Plutonium Handbook. A Guide to the Technology, **2**, 921–936, Wick, O.J. (Ed.), New York, Gordon and Breach, Science Publishers (1967).

(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 2999 Wester, P. O.
Trace elements in the conductive tissue of beef heart determined by neutron activation analysis.
Acta Med. Scand., **178**, 789–799 (December 1965).
 (ENGLISH). DEPARTMENT OF MEDICINE, KAROLINSKA INSTITUTET AT SERAFIMERLASARTTET, STOCKHOLM, SWEDEN.
- 3005 Kline, J. R.
An investigation of copper and other selected elements in soils utilizing gamma radiations induced by thermal neutron activation.
 Thesis. University of Minnesota, 199p. (1964).
 (ENGLISH). UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA.
- 3011 Braier, H. A., Mott, W. E.
Activation analysis and technical service problems.
Proceedings American Petroleum Institute, **44**, (III), 253–263 (1964).
 (ENGLISH). GULF RESEARCH AND DEVELOPMENT CO., PITTSBURGH, PA.
- 3027 King, R. W., Cerato, C. C., Melchiorre, J. J.
Use of neutron activation in a study of the oxidation of electrical oils.
Proceedings American Petroleum Institute, **44**, (III), 247–252 (1964).
 (ENGLISH). SUN OIL CO., MARCUS HOOK, PA.
- 3028 Guinn, V. P., Lukens, H. R., Steele, E. L.
The role of small accelerators and nuclear reactors in neutron activation analysis of petroleum.
Proceedings American Petroleum Institute, **44**, (III), 234–246 (1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 3033 Ishii, D., Hirose, Y., Mori, H.
Determination of hydrogen in organic solvents by prompt radiation emitted during thermal neutron bombardment.
Bunseki Kagaku, **15**, 601–604 (June 1966).
 (JAPANESE) (ENGLISH SUMMARY). FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, CHIKUSA-KU, NAGOYA, JAPAN.
- 3058 Strain, J. E.
Use of neutron generators in activation analysis.
Prog. Nucl. Energy, Ser. IX, **4**, 137–157 (1965).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 3059 Rasmussen, N. C., Thompson, T. J.
Neutron and gamma-ray spectroscopy and activation analysis. Final report, January 1, 1961–January 1, 1966.
 AD-633252, 176p. (February 1966).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS.
- 3060 Maxia, V., Rollier, M. A.
Pulse neutron activation-analysis determination of selenium in biological samples.
Trans. Amer. Nucl. Soc., **9**, 69 (June 1966).
 (ENGLISH). UNIVERSITY OF PAVIA, ITALY.
- 3061 Thomas, C. C., Tercho, G. P., Sondel, J. A.
Neutron activation analysis of blood serum. Part I. Copper and zinc.
Trans. Amer. Nucl. Soc., **9**, 69–70 (June 1966).
 (ENGLISH). WESTERN NEW YORK NUCLEAR RESEARCH CENTER, INC., BUFFALO, NEW YORK.
- 3062 Hahn, K. J., Haven, M. C., Tuma, D. J., Ogborn, R. E., Quaife, M. A.
The determination of manganese in tissues by neutron activation analysis.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Trans. Amer. Nucl. Soc.*, **9**, 71
(June 1966).
(ENGLISH). VETERANS
ADMINISTRATION HOSPITAL, OMAHA,
NEBRASKA.
- 3063 Guinn, V. P.
**The determination of oxygen-18 by
activation analysis with 14 MeV
neutrons and the oxygen-18 (n,
alpha) carbon-15 reaction.**
Trans. Amer. Nucl. Soc., **9**, 83
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3064 Menon, M. P., Russell, H. T.,
Wainerdi, R. E.
**Scanning of impurities in metallic
foils by two-dimensional
activation analysis.**
Trans. Amer. Nucl. Soc., **9**, 86-87
(June 1966).
(ENGLISH). TEXAS AGRICULTURAL
AND MECHANICAL UNIVERSITY,
COLLEGE STATION, TEXAS.
- 3065 Krishnan, S. S.
**Determination of muzzle-target
distance in gunshot firings by
neutron activation analysis.**
Trans. Amer. Nucl. Soc., **9**, 88-89
(June 1966).
(ENGLISH). ATTORNEY GENERALS
LABORATORY, TORONTO, CANADA.
- 3066 Australian Atomic Energy
Commission
**Thirteenth annual report for the
year ending June 30, 1965.**
NP-15612, 100p.
(ENGLISH). AUSTRALIAN ATOMIC
ENERGY COMMISSION, AUSTRALIA.
- 3067 Australian Atomic Energy
Commission
**Fourteenth annual report for the
year ending June 30, 1966.**
AAEC Report, 103p.
(ENGLISH). AUSTRALIAN ATOMIC
ENERGY COMMISSION, AUSTRALIA.
- 3070 Benjamin, R. W., England, L. D.,
Blake, K. R., Morgan, I. L.,
Houston, C. D.
**Deuteron activation analysis for
C, N, and O in high-purity
metallic surfaces.**
Trans. Amer. Nucl. Soc., **9**, 104
(June 1966).
(ENGLISH). TEXAS NUCLEAR CORP.,
AUSTIN, TEXAS.
- 3071 Ricci, E., Hahn, R. L.
**Sensitivities for He-3
activation-analysis determination
of light elements (Z equals 4 to
20).**
Trans. Amer. Nucl. Soc., **9**,
104-105 (June 1966).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 3072 Guinn, V. P., Lukens, H. R.
**The photoneutron determination of
beryllium and deuterium.**
Trans. Amer. Nucl. Soc., **9**,
106-107 (June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3073 Anderson, G. H., Kempchinsky, P.
C., Lavery, A.
**The determination of oxygen in
beryllium-comparison of neutron
activation and bromine-methanol
methods.**
Trans. Amer. Nucl. Soc., **9**, 107
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3074 Ross, W. J., Strain, J. E.,
Landry, J. W.
**Monitoring of leached fuel
elements with a neutron
generator.**
Trans. Amer. Nucl. Soc., **9**,
107-108 (June 1966).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 3075 Kuehne, F. J., D'Agostino, M. D.
**The use of small neutron
generators and a recently
developed simplified technique**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- for remote site analysis of metallic wear products.**
Trans. Amer. Nucl. Soc., **9**, 108-109 (June 1966).
(ENGLISH). GRUMANN AIRCRAFT ENGINEERING CORP., BETHPAGE, N.Y.
- 3076 Parker, C. V., Martin, T. C., Morgan, I. L.
Nuclear analysis techniques for industrial process control.
Trans. Amer. Nucl. Soc., **9**, 109 (June 1966).
(ENGLISH). TEXAS NUCLEAR CORP., AUSTIN, TEXAS.
- 3077 Andersen, G. H., Guinn, V. P., Settle, D. M.
Photonuclear activation analysis with an electron linear accelerator.
Trans. Amer. Nucl. Soc., **9**, 80-81 (June 1966).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIFORNIA.
- 3078 Rundo, J., Bunce, L. J.
Estimation of the total hydrogen content of the human body.
Nature, **210**, 1023-1024 (June 4, 1966).
(ENGLISH). ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE, ENGLAND.
- 3079 Johansen, O., Steinnes, E.
Determination of indium in standard rocks by neutron activation analysis.
Talanta, **13**, 1177-1181 (August 1966).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 3081 Merrihue, C., Turner, G.
Potassium-argon dating by activation with fast neutrons.
J. Geophys. Res., **71**, 2852-2857 (June 1, 1966).
(ENGLISH). DEPARTMENT OF PHYSICS, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.
- 3082 Pauly, J., Guzzi, G., Girardi, F., Borella, A.
Application of gamma-ray spectrometry and computer techniques to the determination of the minimum detectable content of trace elements in neutron-activated materials.
Nucl. Instrument Methods, **42**, 15-25 (June 1966).
(ENGLISH). NUCLEAR CHEMISTRY LABORATORY AND SCIENTIFIC DATA PROCESSING CENTER, EURATOM, ISPRA, VARESE, ITALY.
- 3084 Ruzicka, J., Stary, J., Zeman, A.
Substoichiometric determination of traces of mercury by activation analysis and isotopic dilution.
J. Anal. Chem., USSR, **19**, No. 8, 868-872 (August 1964).
(ENGLISH TRANSLATION). CZECH HIGHER TECHNICAL SCHOOL, PRAGUE, CZECHOSLOVAKIA.
- 3085 Gahn, R. F., Rosenblum, L.
Accuracy of three methods for determination of oxygen in potassium at concentrations less than 20 ppm.
Anal. Chem., **38**, 1014-1018 (July 1966).
(ENGLISH). LEWIS RESEARCH CENTER, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, CLEVELAND, OHIO.
- 3086 Soremark, R.
Micro element analysis by neutron activation.
Progress in Atomic Medicine, **1**, 54-77, New York, Grune and Stratton (1965).
(ENGLISH). HARVARD SCHOOL OF DENTAL MEDICINE, BOSTON, MASS.
- 3087 Plaksin, I. N., Starchik, L. P., Tustanovskii, V. T.
Praseodymium and neodymium determination by means of the ($n,2n$) reaction.
Dokl. Akad. Nauk SSSR, **165**, 1095-1096 (December 11, 1965).
(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3088 Lobanov, E. M., Chanyshv, A. I.,
Chanysheva, T. I.
**Determination of scandium content
in rocks by means of activation
analysis.**
*Izv. Akad. Nauk Uz. SSR, Ser.
Fiz.-Mat. Nauk*, No. 3, 66-68
(1965).
(RUSSIAN). RUSSIA.
- 3089 Lobanov, E. M., Chanyshv, A. I.,
Chanysheva, T. I.
**Quantitative determination of
fluorine in fluorite rock and of
the products of its treatment by
activation method using
polonium-beryllium neutron
source.**
*Izv. Akad. Nauk Uz. SSR, Ser.
Fiz.-Mat. Nauk*, No. 3, 68-69
(1965).
(RUSSIAN). RUSSIA.
- 3090 Perdijon, J.
**Rapid determination of oxygen in
metals by radioactivation.**
Rev. Met. (Paris), **63**, 27-32
(January 1966).
(FRENCH). S.A. DE MACHINES
ELECTROSTATIQUES (SAMES),
GRENOBLE, FRANCE.
- 3091 Zmijewska, W., Minczewski, J.
**Determination of some
macrocomponents of soil solutions
by neutron activation analysis.**
*Plant Nutrient Supply and
Movement*, 110-122, Vienna,
International Atomic Energy
Agency, Technical Report Series
No. 48 (1965).
(ENGLISH). INSTITUTE OF NUCLEAR
RESEARCH, ANALYTICAL DEPARTMENT,
WARSAW, POLAND.
- 3092 Nishigaki, S.
**Activation analysis in soil/plant
relation studies in South-East
Asia.**
*Plant Nutrient Supply and
Movement*, 122-124, Vienna,
International Atomic Energy
Agency, Technical Report Series
No. 48 (1965).
(ENGLISH). NATIONAL INSTITUTE OF
AGRICULTURAL SCIENCES,
- NISHIGAHARA, KITAKU, TOKYO,
JAPAN.
- 3093 Cho, C. M., Axmann, H.
**Determination of micro-quantities
of several elements in soil
solution by isotope dilution and
activation analyses.**
*Plant Nutrient Supply and
Movement*, 125-130, Vienna,
International Atomic Energy
Agency, Technical Report Series
No. 48 (1965).
(ENGLISH). AGRICULTURE SECTION,
SEIBERSDORF LABORATORY, IAEA,
VIENNA, AUSTRIA.
- 3098 Heydorn, K.
**Multiple carrier addition followed
by reirradiation yield
measurement for the determination
of arsenic in hair and biological
material.**
Trans. Amer. Nucl. Soc., **9**, 70-71
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3099 Heydorn, K.
**Improvement of accuracy in
activation analysis by
multiple-carrier addition
followed by reactivation yield
determination.**
Trans. Amer. Nucl. Soc., **9**, 86
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3100 Graber, F. M., Lukens, H. R.,
Heydorn, K.
**The determination of terbium,
erbium, ytterbium, and yttrium by
neutron activation analysis.**
Trans. Amer. Nucl. Soc., **9**, 87
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3101 Lukens, H. R., Graber, F. M.,
Settle, D. M.
Halogen determination errors due

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- OF TECHNOLOGY, WRIGHT-PATTERSON
AFB, OHIO.
- to radiolysis and recoil in
neutron activation analysis.
Trans. Amer. Nucl. Soc., **9**, 88
(June 1966).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3102 Corless, J. T.
**Stable isotope measurements by
precision neutron activation
analysis.**
Trans. Amer. Nucl. Soc., **9**, 89-90
(June 1966).
(ENGLISH). UNIVERSITY OF RHODE
ISLAND, KINGSTON, R.I.
- 3105 Bachmann, K., Hecker, A. B. H.,
Lieser, K. H.
**Determination of Th-230 and Th-232
in uranium ores.**
Z. Anal. Chem., **219**, 340-346
(1966).
(GERMAN) (ENGLISH SUMMARY).
LEHRSTUHL FÜR KERNCHEMIE,
TECHNISCHE HOCHSCHULE DARMSTADT,
GERMANY.
- 3117 Connally, R. E., Leboeuf, M. B.
**Analysis of radionuclide mixtures
using a gamma-beta scintillation
spectrometer.**
Anal. Chem., **25**, No. 7, 1095-1100
(July 1953).
(ENGLISH). HANFORD WORKS,
GENERAL ELECTRIC CO., RICHLAND,
WASHINGTON.
- 3126 Finston, H. L., Wellwart, Y.,
Bishop, W.
**Neutron-charged particle
reactions. The analysis of thin
lithium and boron films.**
CONF-151-1, 17p.
(ENGLISH). BROOKHAVEN NATIONAL
LABORATORY, UPTON, L.I., N.Y.
- 3283 Burns, R. S.
**Preliminary study of neutron
activation analysis service.
Gamma-ray scintillation
spectrometry and spectrum
analysis.**
AD-621017, 100p. (August 1965).
(ENGLISH). AIR FORCE INSTITUTE
- 3328 Argonne National Laboratory
**Analytical research and
development.**
ANL-7175, 217-225.
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 3333 Greendale, A. E., Love, D. L.
**A system for rapid handling of an
irradiated solution.**
Nuclear Instruments and Methods,
23, 209-212 (1963).
(ENGLISH). U.S. NAVAL
RADIOLOGICAL DEFENSE LABORATORY,
SAN FRANCISCO, CALIF.
- 3334 Rakovic, M., Langerova, I.,
Talpova, H.
**Determination of potassium in
biological material by various
methods of neutron-activation
analysis.**
Atompraxis, **12**, No. 7, 1-4 (1966).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). BIOPHYSICAL
INSTITUTE OF THE MEDICAL FACULTY,
CHARLES UNIVERSITY, PRAGUE,
CZECHOSLOVAKIA.
- 3335 Barwinski, A., Gorski, L.,
Janczyszyn, J., Korbel, K.,
Kwiecinski, S., Loska, L.,
Ostachowicz, J.
**An automatic activation analysis
system (AAAS) with the use of
fast neutron generator.**
Isotopenpraxis, **2**, No. 8, 322-328
(1966).
(ENGLISH). INSTITUTE OF NUCLEAR
TECHNIQUES, ACADEMY OF MINING AND
METALLURGY, CRACOW, POLAND.
- 3336 Headridge, J. B., Pierce, T. B.,
Anderson, D. M. W.
Analytical chemistry.
Ann. Rep. Progr. Chem., Chem. Soc.
London, **61**, 527-566 (1964).
(ENGLISH). DEPARTMENT OF CHEMISTRY
THE UNIVERSITY, SHEFFIELD,
ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3341 Hyodo, H., Bando, S.
Determination of copper content in o-diphenol oxidase by neutron activation analysis.
Agr. Biol. Chem. (Tokyo), **29**, 763-768 (August 1965).
 (ENGLISH). LABORATORY OF BIOCHEMISTRY, FACULTY OF AGRICULTURE, NAGOYA UNIVERSITY, ANJO, AICHI, JAPAN.
- 3342 Kim, J. I., Kim, C. K., Chang, W. P.
The determination of gold in assay process by thermal neutron activation analysis.
Ta Han Hua Hsueh Hui-Chih, **7**, 165-169 (June 1963).
 (ENGLISH) (KOREAN SUMMARY). ATOMIC ENERGY RESEARCH INSTITUTE, KOREA.
- 3344 Lee, C. J., Kim, C. K., Park, J. H.
Thermal neutron activation analysis of V and Mn in Ginseng using 3.76-minute V-52 and 2.58-hour Mn-56.
Ta Han Hua Hsueh Hui-Chih, **7**, 13-16 (March 1963).
 (KOREAN) (ENGLISH SUMMARY). ATOMIC ENERGY RESEARCH INSTITUTE, KOREA.
- 3345 Kline, J. R., Rust, R. H.
Fractionation of copper in neutron-activated soils.
Soil Sci. Soc. Amer. Proc., **30**, 188-192 (March-April 1966).
 (ENGLISH). DIVISION OF BIOLOGICAL AND MEDICAL RESEARCH, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 3346 Abe, S.
Activation analysis of tantalum in niobium by photonuclear reaction.
Nippon Kagaku Zasshi, **86**, 641-643 (June 1965).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMICAL ENGINEERING, YAMAGATA UNIVERSITY, MOTONAKABA-KUROCHO, YONEZAWA-SHI, JAPAN.
- 3350 Bogancs, J., Quittner, P., Szabo, E.
Non-destructive neutron activation analysis for routine testing of impurities in semiconductor silicon.
Proc. Symp. on Test Methods and Measurements of Semiconductor Devices, Budapest, 1-12 (1967).
 (ENGLISH). CENTRAL RESEARCH INSTITUTE OF PHYSICS, BUDAPEST, HUNGARY.
- 3351 Anders, O. U.
Use of charged particles from a 2-megavolt Van de Graaff accelerator for elemental surface analysis.
Anal. Chem., **38**, 1441-1452 (October 1966).
 (ENGLISH). RADIOCHEMISTRY RESEARCH LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 3352 Ehmann, W. D., Tanner, J. T.
The abundance of antimony in meteorites.
Earth and Planetary Science Letters, **1**, 276-279 (1966).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 3353 Steele, E. L.
Computer data reduction in neutron activation analysis.
Proceedings American Petroleum Institute, **44**, (III), 271-276 (1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 3355 Hull, R. L.
Fast-neutron activation analysis using small accelerators.
Proceedings American Petroleum Institute, **44**, (III), 264-270 (1964).
 (ENGLISH). HUMBLE OIL AND REFINING CO., BAYTOWN, TEXAS.
- 3356 Young, M. H., Singhal, N. S.
Unfolding of gamma-ray spectra by stepwise statistical method.
Technical report, September

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1964–January 1965.
AD-622200, 25p. (July 1965).
(ENGLISH). AIR FORCE FLIGHT
DYNAMICS LABORATORY,
WRIGHT-PATTERSON AFB, OHIO.
- 3357 Twitty, B. L., Fritz, K. M.
**The determination of oxygen in
magnesium, steel, and titanium.
Internal standard techniques in
14 MeV activation analysis.**
NLCO-979, 21p. (June 1, 1966).
(ENGLISH). NATIONAL LEAD COMPANY
OF OHIO, CINCINNATI, OHIO.
- 3358 Frischauf, H., Altmann, H.
**Determination of iodine in whole
serum and in blood protein with
neutron activation analysis.**
SGAE-BL-18/1966, 6p. (1966).
(GERMAN). OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, GES.M.B.H.,
REAKTORZENTRUM, SEIBERSDORF,
AUSTRIA.
- 3360 Altmann, H., Frischauf, H.,
Adamiker, D., Kaindl, K.
**Neutron activation analysis
determination of radiosensitizers.**
SGAE-BL-17/1966, 10p. (1966).
(GERMAN). OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, GES.M.B.H.,
REAKTORZENTRUM, SEIBERSDORF,
AUSTRIA.
- 3361 Lobanov, E. M., Zvyagin, V. I.,
Zverev, B. P., Blinkov, D. I.
**Determination of light elements in
silicon and other materials by
neutron activation.**
AEC-TR-6639, *Proceedings of the
First All-Union Coordinating
Conference, Tashkent, 24-28
October 1962*, 1-12. Israel
Program for Scientific
Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE
OF NUCLEAR PHYSICS, ACADEMY OF
SCIENCES, UZBEK SSR.
- 3362 Aripov, G., Krylov, B. E.,
Lobanov, E. M., Matveev, N. S.,
Romanov, M. M., Khaidarov, A. A.
**A study of gamma spectra of
thermal neutron radiative capture
by ore and mineral samples.**
AEC-TR-6639, *Proceedings of the
First All-Union Coordinating
Conference, Tashkent, 24-28
October 1962*, 13-17, Israel
Program for Scientific
Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE
OF NUCLEAR PHYSICS, ACADEMY OF
SCIENCES, UZBEK SSR.
- 3363 Maslov, I. A., Obukhov, A. P.
**Measurement of the vaporization
rate of zirconium from a ZrC hot
cathode by the neutron-activation
method.**
AEC-TR-6639, *Proceedings of the
First All-Union Coordinating
Conference, Tashkent, 24-28
October 1962*, 22-27, Israel
Program for Scientific
Translations, Jerusalem (1966).
(ENGLISH TRANSLATION).
PHYSICAL-TECHNICAL INSTITUTE IM.
A.F. IOFFE, ACADEMY OF SCIENCES,
USSR.
- 3364 Shamaev, V. I.
**Determination of nitrogen in
organic compounds by fast-neutron
activation.**
AEC-TR-6639, *Proceedings of the
First All-Union Coordinating
Conference, Tashkent, 24-28
October 1962*, 32-35, Israel
Program for Scientific
Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MOSCOW
CHEMICAL ENGINEERING INSTITUTE
IM. D.I. MENDELEEV.
- 3365 Smakhtin, L. A., Filippova, N. V.,
Brovtyn, V. K.
**Activation analysis of some
organic compounds.**
AEC-TR-6639, *Proceedings of the
First All-Union Coordinating
Conference, Tashkent, 24-28
October 1962*, 46-49, Israel
Program for Scientific
Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). BRANCH OF

ACTIVATION ANALYSIS—ACCESSION NUMBERS

THE PHYSICO-CHEMICAL INSTITUTE
IM. L. YA. KARPOV.

- 3366 Leipunskaya, D. I.
Use of neutron-activation analysis in prospecting for minerals.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 50-54, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). ALL-UNION SCIENTIFIC RESEARCH INSTITUTE OF NUCLEAR GEOPHYSICS AND GEOCHEMISTRY.
- 3367 Perezhogin, G. A., Alimarin, I. P.
Determination of trace amounts of gold in rocks and sedimentary formations by the neutron-activation method without decomposition of the sample.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 55-59, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY OF THE ACADEMY OF SCIENCES OF THE USSR.
- 3368 Leipunskaya, D. I., Putyatina, N. D.
Fast neutron-activation determination of sodium and potassium in small powdered samples of aluminosilicate rocks.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 64-66, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). ALL-UNION SCIENTIFIC-RESEARCH INSTITUTE OF NUCLEAR GEOPHYSICS AND GEOCHEMISTRY.
- 3369 Lobanov, E. M., Chanyshhev, A. I., Dutov, A. G., Khudaiberganov, A., Ashirov, M. G.
Determination of impurities in boron and in quartz crystals by the neutron activation method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 67-69, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3370 Lobanov, E. M., Chanyshhev, A. I., Dutov, A. I., Ashirov, M. G., Khudaiberganov, A.
Determination of aluminum in kaolin clays by the neutron-activation method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 70-73, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3371 Lobanov, E. M., Novikov, A. P., Chanyshhev, A. I., Dutov, A. G., Ashirov, M. G., Khudaiberganov, A.
Determination of copper in cores by activation analysis.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 74-77, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3372 Lobanov, E. M., Chanyshhev, A. I.
Large-scale determination of copper in cores by the neutron-activation method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 78-81, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). INSTITUTE

ACTIVATION ANALYSIS—BIBLIOGRAPHY

OF NUCLEAR PHYSICS OF THE ACADEMY
OF SCIENCES OF UZBEK SSR.

- 3373 Plaksin, I. N., Aleksandrov, C. A., Starchik, L. P.
Application of neutron-activation analysis to the determination of copper in beneficiation products.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 82-85, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MINING INSTITUTE IM. A.A. SKOCHINSKII.
- 3374 Plaksin, I. N., Petkov, P. M., Starchik, L. P., Stogova, G. B.
The possibility of determining silver in solution by the neutron-activation method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 92-96, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MINING INSTITUTE IM. A.A. SKOCHINSKII.
- 3375 Plaksin, I. N., Belyakov, M. A., Starchik, L. P.
Gamma-spectrometric determination of cesium by the neutron-activation method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 97-102, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MINING INSTITUTE IM. A.A. SKOCHINSKII.
- 3376 Plaksin, I. N., Starchik, L. P., Malysheva, N. G.
Determination of elements of high thermal-neutron-capture cross sections in beneficiation products by the neutron-absorption method.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 114-117, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MINING INSTITUTE IM. A.A. SKOCHINSKII.
- 3379 Plaksin, I. N., Anchevskii, E. V., Russkaya, E. I., Starchik, L. P.
Determination of tungsten in solutions by the method of absorption of soft gamma quanta.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 126-130, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). MINING INSTITUTE IM. A.A. SKOCHINSKII.
- 3380 Stevenson, P. C.
Processing of counting data.
NAS-NS-3109, 167p. (September 24, 1965).
(ENGLISH). UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LABORATORY, LIVERMORE, CALIF.
- 3381 Maslov, I. A., Obukhov, A. P.
Possibilities of setting up a neutron-activation analysis model for special-purity substances.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 18-21, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). PHYSICAL-TECHNICAL INSTITUTE IM. A.F. IOFFE, ACADEMY OF SCIENCES, USSR.
- 3382 Potapova, T. A., Poleshchuk, T. V.
Neutron-activation analysis of special-purity aluminum.
AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 28-31, Israel Program for Scientific Translations, Jerusalem (1966).
(ENGLISH TRANSLATION). ALL-UNION ALUMINUM-MAGNESIUM INSTITUTE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3383 Moiseev, V. V., Kuznetsov, R. A., Kalinin, A. I.
Neutron-activation analysis of silica using ion-exchange chromatography.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 36-41, Israel Program for Scientific Translations, Jerusalem (1966).
 (ENGLISH TRANSLATION). INSTITUTE OF SILICATE CHEMISTRY, ACADEMY OF SCIENCES, USSR.
- 3384 Leushkina, G. V., Lobanov, E. M., Zvyagin, V. I., Dutov, A. G.
Determination of impurities in silicon carbide.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 42-45, Israel Program for Scientific Translations, Jerusalem (1966).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES, UZBEK SSR.
- 3385 Lobanov, E. M., Miranskii, I. A., Pozychanyuk, V. F., Saifutdinova, D. G., Khaidarov, A. A.
A more effective determination of gold in ores by activation analysis.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 60-63, Israel Program for Scientific Translations, Jerusalem (1966).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3386 Lobanov, E. M., Babaev, A., Nurmatov, D.
Determination of rare-earth elements in accessory minerals by the neutron-activation method.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 86-91, Israel Program for Scientific Translations, Jerusalem (1966).
- (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3387 Shiryaeva, M. B., Salmin, Y. P.
Determination of tantalum in rocks and minerals by the neutron-activation method.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 103-107, Israel Program for Scientific Translations, Jerusalem (1966).
 (ENGLISH TRANSLATION). ALL-UNION INSTITUTE OF MINERAL RAW MATERIALS.
- 3388 Kist, A. A., Zvyagina, L. S., Lobanov, E. M., Nikolaev, A. I., Zvyagin, V. I.
Fast radiochemical separation in activation analysis of biological matter.
 AEC-TR-6639, *Proceedings of the First All-Union Coordinating Conference, Tashkent, 24-28 October 1962*, 108-113, Israel Program for Scientific Translations, Jerusalem (1966).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEK SSR.
- 3389 National Academy of Sciences-National Research Council
Source material for radiochemistry.
 NAS-NRC-1351, 82p. (1965).
 (ENGLISH). NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.
- 3391 Dean, M. H., Stimson, A., Green, D. E.
The routine determination of uranium in vegetation ash.
Anal. Chim. Acta, **35**, 530-533 (August 1966).
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKSHIRE, ENGLAND.
- 3393 Rakovic, M., Prochazkova, Z.
Precipitation methods in neutron activation analysis. I.

- Co-precipitation of sodium in potassium perchlorate precipitation.**
Chem. Zvesti, **20**, 293–298 (1966).
(CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY, FAKULTY VSEOBECNEHO LEKARSTVI KARLOVY UNIVERSITY, PRAHA, CZECHOSLOVAKIA.
- 3394 Kocherov, N. P., Perfilov, N. A.
Measurements of photolytic silver in emulsions by means of activation analysis.
Zh. Nauch. Prikl. Fotogr. Kinematogr., **9**, 360–363 (September–October 1964).
(RUSSIAN). RUSSIA.
- 3395 Lobanov, E. M., Gureev, E. S., Dutov, A. G., Kist, A. A.
A radioactivation method for determining the rare-earths in some minerals and rocks.
J. Anal. Chem., USSR, **21**, No. 3, 258–261 (March 1966).
(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES, UZBEK SSR, TASHKENT.
- 3396 Kukula, F., Krivanek, M.
The use of thenoyltrifluoroacetone for the substoichiometric determination of scandium by activation analysis.
UJV-1512, 15p. (1966).
(ENGLISH) (CZECH SUMMARY). CESKOSLOVENSKA AKADEMIE VED USTAV JADERNEHO VYZKUMU, PRAHY, CZECHOSLOVAKIA.
- 3397 Bildstein, H., Auer-Welsbach, H., Manhartsberger, H.
A report on quantitative activation analytical purity determination of rare earth oxides.
SGAE-CH-27/1966, 11p. (1966).
(GERMAN). OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.
- 3399 Okada, M.
Possibility of elemental analysis by use of neutron-capture gamma-rays due to neutrons from low-level sources.
Reports of the Government Chemical Industrial Research Institute, **61**, No. 10, 448–455 (1966).
(JAPANESE) (ENGLISH SUMMARY). GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, JAPAN.
- 3403 Tilbury, R. S.
Activation analysis with charged particles.
NAS-NS-3110, 43p.
(ENGLISH). UNION CARBIDE CORPORATION, TUXEDO, NEW YORK.
- 3411 Adams, F., Hoste, J.
Non-destructive activation analysis.
Atomic Energy Review, **4**, No. 2, 113–180 (1966).
(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, STATE UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 3413 Perneckzi, G., Quittner, P.
Tables for fast identification of gamma-emitters from the combined half-life and energy data.
KFKI-5, 1–4 (1967).
(ENGLISH). HUNGARIAN ACADEMY OF SCIENCES, CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 3414 Ishida, K., Kuroda, R., Kawabuchi, K.
Determination of rhenium by neutron activation.
Anal. Chim. Acta, **36**, No. 1, 18–24 (1966).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). LABORATORY OF ANALYTICAL CHEMISTRY, FACULTY OF ENGINEERING, THE UNIVERSITY OF CHIBA, CHIBA, JAPAN.
- 3418 Lihl, F., Patek, P., Sorantin, H.
Application of neutron activation analysis to the determination of impurities in pure copper.
SGAE-CH-32/1966, 27p. (1966).
(GERMAN). INSTITUT FUR CHEMIE,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

REAKTORZENTRUM SEIBERSDORF,
AUSTRIA.

3461 Cuypers, M., Hislop, J. S.,
Kuykendall, W. E., Wainerdi, R.
E.

3424 Perkins, R. W.

**Gamma-ray spectrometric systems of
analysis.**

*Progress in Nuclear Energy Series
IX - Anal. Chem.*, 1, 163-199
(1959).

(ENGLISH). HANFORD LABORATORIES
OPERATION, HANFORD ATOMIC
PRODUCTS OPERATION, GENERAL
ELECTRIC CO., RICHLAND,
WASHINGTON.

**Lunar and planetary surface
analysis using neutron
activation.**

CONF-660207-9, *Symposium on
Radioisotope in Aerospace*,
Dayton, Ohio, February 15-17,
1966, 27p. (1966).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

3426 Salmon, L.

**Gamma ray spectroscopy applied to
radioactivation analysis. Part 1.
Introduction and nuclear data.**

AERE C/R 2377(1), 1-92 (1959).

(ENGLISH). ATOMIC ENERGY
RESEARCH ESTABLISHMENT, HARWELL,
BERKSHIRE, ENGLAND.

3462 Berzin, A. K., Bepalov, D. F.,

Zaporozhets, V. M., Kantor, S.
A., Leipunskaya, D. I., Sulin, V.
V., Feldman, I. I., Shimelevich,
Y. S.

**Present state and use of basic
nuclear geophysical methods for
investigating rocks and ores.**

Atomic Energy Review, 4, No. 2,
59-111 (1966).

(ENGLISH). ALL-UNION NUCLEAR
GEOPHYSICS AND GEOCHEMISTRY
RESEARCH, INSTITUTE OF THE STATE
GEOLOGICAL COMMITTEE, MOSCOW,
RUSSIA.

3438 Covell, D. F.

**Quality control for the gamma-ray
scintillation spectrometer.**

Nuclear Instruments and Methods,
22, 101-108 (1963).

(ENGLISH). U.S. NAVAL
RADIOLOGICAL DEFENSE LABORATORY,
SAN FRANCISCO, CALIF.

3464 Lobanov, E. M., Yankovskii, A. V.

**Neutron-activation method for
determining bismuth in rock and
ore samples.**

*Izv. Akad. Nauk Uz. SSR, Ser.
Fiz.-Mat. Nauk*, No. 3, 65-66
(1965).

(RUSSIAN). RUSSIA.

3443 Ellett, W. H., Brownell, G. L.

**A total absorption gamma ray
spectrometer combining sodium
iodide and plastic scintillators.**

Nuclear Instruments and Methods,
7, 56-62 (1960).

(ENGLISH). PHYSICS RESEARCH
LABORATORY, MASSACHUSETTS GENERAL
HOSPITAL, BOSTON, MASS.

3465 Wing, J., Wahlgren, M. A.

**Detection sensitivities in
nuclear activation with an
isotopic fast-neutron source.**

Anal. Chem., 39, No. 1, 85-89
(January 1967).

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

3460 Crump, J. G.

**Nuclear methods applied to ore
beneficiating processes, present
and future.**

CONF-650203-4, *National AIME
Meeting, Chicago, February 14-18,
1965*, 10p. (1965).

(ENGLISH). NUCLEAR-CHICAGO
CORPORATION, DES PLAINES,
ILLINOIS.

3466 Garbrah, B. W., Whitley, J. E.

**Determination of boron by thermal
neutron capture gamma-ray
analysis.**

Anal. Chem., 39, No. 3, 345-349
(March 1967).

(ENGLISH). SCOTTISH RESEARCH

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- REACTOR CENTER, EAST KILBRIDE,
GLASGOW, SCOTLAND.
- 3467 Baedeker, P. A.
The distribution of gold and iridium in meteoritic and terrestrial materials.
ORO-2670-17 (Thesis), 110p.
(February 1, 1967).
(ENGLISH). UNIVERSITY OF KENTUCKY, DEPARTMENT OF CHEMISTRY, LEXINGTON, KENTUCKY.
- 3468 Brussels University, Belgium, Pisa University, Italy
Nuclear Medicine.
EUR-2636.F.I, 560. (April 1966).
(ITALIAN) (FRENCH SUMMARY).
UNIVERSITE LIBRE DE BRUXELLES, BELGIUM AND UNIVERSITA DI PISA, ITALY
- 3469 Murray, K., Offord, R. E.
Use of neutron activation in the characterization of small quantities of nucleic acids.
Nature, **211**, No. 5047, 376-378 (1966).
(ENGLISH). MEDICAL RESEARCH COUNCIL LABORATORY OF MOLECULAR BIOLOGY, HILLS ROAD, CAMBRIDGE, MASS.
- 3470 Brunfelt, A. O., Steinnes, E.
Instrumental neutron activation analysis of standard rocks.
Geochim. Cosmochim. Acta, **30**, No. 9, 921-928 (1966).
(ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.
- 3472 Lobanov, E. M., Khusnutdinov, R. I.
Preparation of iridium and rhodium reference solutions for radioactivation analysis by electrolytic dissolution with the alternate current.
Zh. Analit. Khim., **21**, No. 6, 743-745 (1966).
(RUSSIAN) (ENGLISH SUMMARY) RUSSIA.
- 3473 Lobanov, E. M., Khusnutdinov, R. I.
Determination of iridium in copper and nickel slime and platinum concentrates by neutron activation analysis, using spectrometry of coincidence.
Izv. Akad. Nauk Uz. SSR, Ser. Fiz.-Mat. Nauk, **9**, No. 6, 72-76 (1965).
(RUSSIAN). RUSSIA.
- 3474 Rocco, G. G., Garzon, O. L., Cali, J. P.
Non-destructive determination of nitrogen in diamond by photo-activation.
Intern. J. Appl. Radiation Isotopes, **17**, No. 8, 433-440 (1966).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, OFFICE OF AEROSPACE RESEARCH, BEDFORD, MASSACHUSETTS.
- 3475 Harmison, L. T.
Derivative neutron activation analysis of zinc.
Thesis. University of Maryland, 88p. (1965).
(ENGLISH). UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.
- 3476 Wasson, J. T., Kimberlin, J.
Determination by neutron activation of gallium and germanium in iron meteorites.
Radiochim. Acta, **5**, No. 3, 170-174 (1966).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY AND INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF.
- 3477 Lenihan, J. M. A., Thomson, S. J.
Activation analysis. Principles and applications.
Activation Analysis, Principles and Applications, 211p. Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). WESTERN REGIONAL

ACTIVATION ANALYSIS—ACCESSION NUMBERS

HOSPITAL BOARD, GLASGOW,
SCOTLAND.

INDUSTRIAL RESEARCH, BLINDERN,
OSLO, NORWAY.

- 3478 Thomson, S. J.
Radiochemical methods in activation analysis.
Activation Analysis, Principles and Applications, 73–83, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). CHEMISTRY DEPARTMENT, THE UNIVERSITY, GLASGOW, SCOTLAND.
- 3479 Gibbons, D.
Errors in activation analysis.
Activation Analysis, Principles and Applications, 85–89, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WANTAGE RESEARCH LABORATORY, WANTAGE, BERKS., ENGLAND.
- 3480 Whitley, J. E.
Tracer techniques in analysis.
Activation Analysis, Principles and Applications, 153–159, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, NEAR GLASGOW, SCOTLAND.
- 3481 Morris, D. F. C., Batchelor, J. S. P.
Germanium in the rocks G-1 and W-1 determined by neutron-activation analysis.
Geochim. Cosmochim. Acta, **30**, 737–738 (July 1966).
(ENGLISH). DEPARTMENT OF CHEMISTRY, BRUNEL UNIVERSITY, LONDON, ENGLAND.
- 3482 Hogdahl, O. T., Melsom, S.
Determination of copper in hydrogenated fats by neutron activation analysis.
Anal. Chem., **38**, No. 10, 1414–1415 (1966).
(ENGLISH). CENTRAL INSTITUTE FOR
- 3483 Leddicotte, G. W.
The assay of water for trace elements by neutron activation analysis.
CONF-651108-2, *Symposium on Isotope Techniques in the Hydrologic Cycle*, Urbana, Illinois, November 10–12, 1965, 17p. (1965).
(ENGLISH). UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 3485 De Neve, R., De Soete, D., Hoste, J.
The ^{72}Ge (n,p) ^{72}Ga and the ^{72}Ge (n, α) ^{69m}Zn reactor cross sections. Interference in activation analysis of gallium and zinc in germanium by fast neutron reactions in the matrix.
Radiochimica Acta, **5**, 188–192 (1966).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE OF NUCLEAR SCIENCE, GHENT UNIVERSITY, BELGIUM.
- 3486 Bryan, D. E., Guinn, V. P., Settle, D. M.
Applications of neutron activation analysis in scientific crime detection. 14-month summary report, November 1, 1964–December 31, 1965.
GA-7041, 57p. (March 20, 1966).
(ENGLISH). JOHN JAY HOPKINS LABORATORY FOR PURE AND APPLIED SCIENCE, SAN DIEGO, CALIFORNIA.
- 3487 Crambes, M. R.
Contribution to the determination of Sb, Ag, Cu, Ga, Mo and Zn using 14 MeV neutron activation.
CEA-R-2965, 52p. (April 1966).
(FRENCH) (ENGLISH SUMMARY). COMMISSARIAT A L'ENERGIE ATOMIQUE, FRANCE.
- 3488 Baker, C. A.
The determination of zirconium in ceramic magnesia by neutron activation analysis.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- AERE-R-5108, 14p., April 1966.
(ENGLISH). CHEMISTRY DIVISION,
ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL,
BERKSHIRE, ENGLAND.
- 3489 Wilson, H. W.
Nuclear reactions.
*Activation Analysis, Principles
and Applications*, 9–12, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). SCOTTISH RESEARCH
REACTOR CENTRE, EAST KILBRIDE,
GLASGOW, SCOTLAND.
- 3490 Lenihan, J. M. A.
Scintillation counting.
*Activation Analysis, Principles
and Applications*, 13–18, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). REGIONAL PHYSICS
DEPARTMENT, GLASGOW, SCOTLAND.
- 3491 Gibbons, D., Wainerdi, R. E.
Detection of radioactivity.
*Activation Analysis, Principles
and Applications*, 19–25, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC
ENERGY AUTHORITY, WANTAGE
RESEARCH LABORATORY, WANTAGE,
BERKS., ENGLAND AND TEXAS A AND M
UNIVERSITY, COLLEGE OF
ENGINEERING, COLLEGE STATION,
TEXAS.
- 3492 Gibbons, D.
Scintillation spectrometry.
*Activation Analysis, Principles
and Applications*, 27–39, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC
ENERGY AUTHORITY, WANTAGE
RESEARCH LABORATORY, WANTAGE,
BERKS., ENGLAND.
- 3493 Wainerdi, R. E.
**Activation analysis. Basic
principles.**
*Activation Analysis, Principles
and Applications*, 41–45, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE OF
ENGINEERING, COLLEGE STATION,
TEXAS.
- 3494 Wainerdi, R. E.
**Nuclear reactors as sources of
neutrons.**
*Activation Analysis, Principles
and Applications*, 47–50, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE OF
ENGINEERING, COLLEGE STATION,
TEXAS.
- 3495 Guinn, V. P.
**Use of accelerators as neutron
sources.**
*Activation Analysis, Principles
and Applications*, 51–55, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS CORP.,
SAN DIEGO, CALIFORNIA.
- 3496 Bygrave, W.
**Van de Graaff generators as
neutron sources.**
*Activation Analysis, Principles
and Applications*, 57–60, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). HIGH VOLTAGE
SERVICING CO. LIMITED, EASTCOTE,
MIDDLESEX, ENGLAND.
- 3497 Gibbons, D.
Fast neutron activation analysis.
*Activation Analysis, Principles
and Applications*, 61–68, Lenihan,
J.M.A. and Thomson, S.J. (Eds.),
New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC
ENERGY AUTHORITY, WANTAGE
RESEARCH LABORATORY, WANTAGE,
BERKS., ENGLAND.
- 3498 Guinn, V. P.
**Neutron activation analysis with
reactor pulses.**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Activation Analysis, Principles and Applications*, 69–72, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIFORNIA.
- 3499 Wilson, H. W.
Factors affecting the accuracy of assay.
Activation Analysis, Principles and Applications, 91–96, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, GLASGOW, SCOTLAND.
- 3500 Gibbons, D.
Computer methods in activation analysis.
Activation Analysis, Principles and Applications, 97–106, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WANTAGE RESEARCH LABORATORY, WANTAGE, BERKS., ENGLAND.
- 3501 Bowen, H. J. M.
Geochemical and cosmochemical applications.
Activation Analysis, Principles and Applications, 107–111, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WANTAGE RESEARCH LABORATORIES, WANTAGE, BERKS., ENGLAND.
- 3502 Crawford, G. I.
Oxygen in metals.
Activation Analysis, Principles and Applications, 113–118, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). NATURAL PHILOSOPHY DEPARTMENT, THE UNIVERSITY, GLASGOW, SCOTLAND.
- 3503 Lenihan, J. M. A.
Activation analysis in clinical science.
Activation Analysis, Principles and Applications, 119–124, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). REGIONAL PHYSICS DEPARTMENT, GLASGOW, SCOTLAND.
- 3504 Guinn, V. P.
Forensic applications of activation analysis.
Activation Analysis, Principles and Applications, 125–127, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMIC CORP., SAN DIEGO, CALIFORNIA.
- 3505 Guinn, V. P.
Activation analysis in the petroleum and chemical industry.
Activation Analysis, Principles and Applications, 129–132, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIFORNIA.
- 3506 Nixon, G. S.
Activation analysis in dental medicine.
Activation Analysis, Principles and Applications, 133–138, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). UNIVERSITY OF GLASGOW DENTAL HOSPITAL AND SCHOOL, GLASGOW, SCOTLAND.
- 3507 Smith, H.
Handling of biological material.
Activation Analysis, Principles and Applications, 139–142, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). DEPARTMENT OF

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- FORENSIC MEDICINE, THE
UNIVERSITY, GLASGOW, SCOTLAND.
- 3508 Bowen, H. J. M.
Trace elements in plant and animal tissues.
Activation Analysis, Principles and Applications, 143–148,
Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WANTAGE RESEARCH LABORATORIES, WANTAGE, BERKS, ENGLAND.
- 3509 Bowen, H. J. M., Cawse, P. A.
Production of a homogeneous biological material for intercomparison of elementary analyses by different laboratories.
Activation Analysis, Principles and Applications, 149–151,
Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). ISOTOPE RESEARCH DIVISION, WANTAGE RESEARCH LABORATORY, (AERE), WANTAGE, BERKS., ENGLAND.
- 3512 Lenihan, J. M. A.
Radioactivity.
Activation Analysis, Principles and Applications, 3–7, Lenihan, J.M.A. and Thomson, S.J. (Eds.), New York, Academic Press (1965).
(ENGLISH). REGIONAL PHYSICS DEPARTMENT, GLASGOW, SCOTLAND.
- 3514 Heinen, K. G., Larrabee, G. B.
Activation analysis of silicon by convention carrier separations and by computer reduction of gamma spectra.
Anal. Chem., **38**, 1853–1857 (December 1966).
(ENGLISH). TEXAS INSTRUMENTS, INC., DALLAS, TEXAS.
- 3521 Parker, R. P.
An improved anti-coincidence shield for use in low background counting.
- Nuclear Instruments and Methods*, **8**, 339–343 (1960).
(ENGLISH). PHYSICS DEPARTMENT, INSTITUTE OF CANCER RESEARCH, ROYAL CANCER HOSPITAL, LONDON, ENGLAND.
- 3530 Morris, D. F. C., Slater, D. N., Killick, R. A.
The determination of traces of iridium in samples of rhodium by neutron-activation and gamma-ray spectrometry.
Talanta, **8**, 373–376 (1961).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). BRUNEL COLLEGE OF TECHNOLOGY, LONDON, ENGLAND.
- 3548 Quittner, P.
Electronic instabilities and the χ^2 test in spectrum decomposition.
Nuclear Instruments and Methods, **51**, No. 2, 273–276 (1967).
(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 3550 Quittner, P.
Use of the maximum-likelihood methods for the evaluation of maximum sensitivity for activation analysis in the presence of interfering activities.
Acta Chim. Acad. Sci. Hung., **54**, No. 2, 127–131 (1967).
(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 3552 Quittner, P., Montvai, A.
Determination of optimum schedule and sensitivity for non-destructive activation analysis.
Acta Chim. Acad. Sci. Hung., **51**, No. 4, 371–380 (1967).
(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 3553 Steele, E. L., Meinke, W. W.
Determination of oxygen by activation analysis with fast

ACTIVATION ANALYSIS — ACCESSION NUMBERS

neutrons using a low-cost portable neutron generator.

Anal. Chem., **34**, No. 2, 185-187 (February 1962).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

3560 Athavale, V. T., Desai, H. B., Gangadharan, S., Pendharkar, M. S., Sanka Das, M.

Activation analysis for titanium and niobium with fast neutrons.

Analyst, **91**, 638-646 (October 1966).

(ENGLISH). ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT TROMBAY, BOMBAY, INDIA.

3661 Ordogh, M., Csajka, M.

Neutron activation analysis of impurities. Cobalt and nickel in uranium compounds of nuclear purity.

Mikrochim. Acta, No. 4-5, 606-611 (1966).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). ZENTRALFORSCHUNGSINSTITUT FÜR PHYSIK, BUDAPEST, HUNGARY.

3662 Wainerdi, R. E., Fite, L. E.

Automated systems for nuclear activation analysis.

VIII International Automation and Instrumentation Exhibition and Convention, Milano, 19-25 November 1964, 3-14, Tamburini Editore (1966).

(ENGLISH) (FRENCH AND ITALIAN SUMMARIES). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

3669 Rakovic, M., Prochazkova, Z.

Neutron activation analysis of potassium in biologic material with the use of a new separation method.

Nuclear Medicine, **V**, No. 4, 436-440 (1966).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR

MEDICINE, CHARLES UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.

3708 Ruttink, J.

The application of activation analysis in biochemistry.

Qualitative analysis of hair samples with the aid of the gamma spectrum after neutron irradiation in the nuclear reactor.

Acta Physiol. Pharmacol. Neerl., **11**, 515-516 (1962).

(ENGLISH). MOL, BELGIUM.

3709 Mc Candless, E. L.

Determination of sulfur in polysaccharides by neutron activation analysis.

Anal. Biochem., **7**, 357-365 (1964).

(ENGLISH). UNIVERSITY OF NEW YORK AT BUFFALO, PUBLIC HEALTH RESEARCH INSTITUTE FOR CHRONIC DISEASE, BUFFALO, N.Y.

3710 Kanabrocki, E. L., Case, L. F.,

Fields, T., Graham, L., Miller, E. B., Oester, Y. T., Kaplan, E.
Nondialyzable manganese, copper and gold levels in saliva of normal adult subjects.

J. Nucl. Med., **6**, 489-493 (July 1965).

(ENGLISH). RADIOISOTOPE RESEARCH SERVICE, VETERANS ADMINISTRATION HOSPITAL, HINES, ILLINOIS.

3711 Amiel, S., Nir, A.

Quantitative radioactivity determination of O^{18} .

Canadian Patent 723,756. December 14, 1965.

(ENGLISH). YEDA RESEARCH AND DEVELOPMENT CO., LTD., REHOVOTH, ISRAEL.

3713 Pijck, J., Chun, M. J., Park, J. H., Kim, J. I.

The determination of trace elements in Korean Schinseng radix by radioactivation analysis.

Proc. Japan Conference Radioisotopes, **5th**, No. 3, 184-190 (1963).

(ENGLISH). UNIVERSITY OF GHENT, BELGIUM.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 3714 Shibuya, M., Nakai, T.
Study on the neutron activation analysis of inorganic minor elements in plants and soils. I. The determination of individual rare earth element in rice plants and soils by activation analysis and focussing chromatography.
Proc. Japan Conference Radioisotopes, 5th, No. 4, 228–230 (1963).
 (ENGLISH). NATIONAL INSTITUTE OF AGRICULTURAL SCIENCES, NISHIGAHARA, KITA-KU, TOKYO, JAPAN.
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR ANORGANISCHE CHEMIE, FREIE UNIVERSITÄT BERLIN, GERMANY.
- 3716 Benson, A. A., Miller, W. W., Steim, J. M.
Biochemical applications of neutron activation chromatographic analysis.
Proc. Japan Conference Radioisotopes, 5th, No. 2, 119–126 (1963).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIF.
- 3717 Verbinski, V. V.
Apparatus for identifying materials by activation analysis.
 U.S. Patent 3,234,387. February 8, 1966.
 (ENGLISH). GENERAL ELECTRIC COMPANY, NEW YORK, N.Y.
- 3718 Dibbs, H. P.
The determination of oxygen by fast neutron activation analysis.
 CONF-650203-12, *National AIME Meeting, Chicago, February 14–18, 1965*, 27p. (1965).
 (ENGLISH). DEPARTMENT OF MINES AND TECHNICAL SURVEYS, OTTAWA, CANADA.
- 3719 Muto, H.
Radiation flux measuring device.
 Japanese Patent 1964–18445. August 31, 1964.
 (JAPANESE). JAPAN.
- 3720 Schulze, W.
Determination of detection limits in activation analysis with gamma spectrometry.
Z. Anal. Chem., **221**, 85–100 (1966).
- 3721 Albert, P., Deyris, M., Revel, G.
Determination of oxygen in aluminum and zirconium by irradiation with He-3 ions.
Compt. Rend., Ser. C, **262**, 1774–1777 (June 20, 1966).
 (FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, VAL-DE-MARNE, FRANCE.
- 3722 Deyris, M., Albert, P.
Possibilities for determination of oxygen in aluminum by irradiation with α particles.
Compt. Rend., Ser. C, **262**, 1675–1678 (June 13, 1966).
 (FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, VAL-DE-MARNE, FRANCE.
- 3723 Blouri, J., Chaudron, T., Albert, P.
Determination of sulfur and some elements in carbazoles, purified in the molten state, by neutron radioactivation.
Compt. Rend., Ser. C, **263**, No. 4, 290–292 (1966).
 (FRENCH). C.N.R.S., CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY-SUR-SEINE, VAL-DE-MARNE, FRANCE.
- 3724 Sabbioni, E., Pauly, J., Girardi, F.
Determination of magnesium in aluminum by neutron activation analysis. Application of a chemical treatment before the irradiation, studied by using ^{27}Mg and ^{28}Al as tracers.
Bull. Soc. Chim. France, No. 6, 1924–1926 (1966).
 (FRENCH). CENTRE COMMUN DE RECHERCHE, EURATOM, ISPRA, VARESE, ITALY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3725 Michon, R.
Determination of arsenic by radioactivation in a sample of bone.
Ann. Fals. et Fraudes, **49**, 284–288 (1956).
 (FRENCH). FRANCE.
- 3726 Kohn–Abrest, M. E.
Method for determination of arsenic in bone by radioactivation.
Ann. Fals. et Fraudes, **49**, 407–408 (1956).
 (FRENCH). FRANCE.
- 3727 Petit, J., Schaub, B., Engelmann, C.
Zone fusion and activation analysis.
Bull. Inform. Sci. Tech. (Paris), No. 62, 39–42 (June 1962).
 (FRENCH). SERVICE DE RECHERCHES DE METALLURGIE PHYSIQUE ET CHIMIQUE, FRANCE.
- 3728 Comar, D.
Radioactivation analysis. New technique at the service of biology.
Bull. Inform. Sci. Tech. (Paris), **86**, 3–10. (September 1964).
 (FRENCH). SERVICE HSOPITALIER FREDERIC–JOLIOT, ORSAY, FRANCE.
- 3729 Chepel, L. V., Chapyzhnikov, B. A., Mikhailova, G. N., Zhuravskaya, E. V., Kuzminskii, A. S.
Radioactivation method for the determination of oxygen in elastomers during their processing and aging.
Kauchuk i Rezina, **25**, No. 3, 49–53 (1966).
 (RUSSIAN). RUSSIA.
- 3730 Pronin, V. A., Gilbert, E. N., Artyukhin, P. I.
Neutron activation method for determination of impurities in thallium.
Izv. Sibirsk. Otd. Akad. Nauk SSSR, Ser. Khim. Nauk, No. 1, 88–90 (1966).
 (RUSSIAN). RUSSIA.
- 3731 Artyukhin, P. I., Gilbert, E. N., Pronin, V. A.
Activational determination of impurities in gallium.
Izv. Sibirsk. Otd. Akad. Nauk SSSR, Ser. Khim. Nauk, No. 1, 138–139 (1966).
 (RUSSIAN). RUSSIA.
- 3732 Alimarin, I. P., Yakovlev, Y. V., Zhabin, A. I.
Determination of admixtures in germanium by radioactivation analysis.
Primeneenie Mechenykh Atomov v Anal. Khim. Akad. Nauk SSSR, Inst. Geokhim. i Anal. Khim., 58–69 (1955).
 (RUSSIAN). RUSSIA.
- 3733 Erwall, L. G.
Inactive tracer methods and their activation aspects.
Svensk Kemisk Tidskrift, **70**, 235–239 (1958).
 (SWEDISH). INSTITUTIONEN FOR FYSIKALISK KEMI, KTH, STOCKHOLM, SWEDEN.
- 3734 Westermark, T.
Theory and general principles of activation analysis.
Svensk Kemisk Tidskrift, **70**, 211–218 (1958).
 (SWEDISH). INSTITUTIONEN FOR FYSIKALISK KEMI, KTH, STOCKHOLM, SWEDEN.
- 3735 Miettinen, J. K.
Activation analysis.
Eripainos Suomen Kemistilehdestä, **A33**, 1–12 (1960).
 (FINNISH). FINLAND.
- 3736 Zvyagina, L. S., Kist, A. A., Lobanov, E. M., Nikolaev, A. I., Zvyagin, V. I.
Activation analysis of the biological objects.
Izv. Akad. Nauk Uz. Ssr, Ser. Fiz. Mat. Nauk, **8**, 49–55 (1964).
 (RUSSIAN). RUSSIA.
- 3737 Alimarin, I. P.
Application of radiochemical

ACTIVATION ANALYSIS – BIBLIOGRAPHY

methods in analytical chemistry.
Chem. Anal. (Warsaw), **2**, 209–221
(1957).

(POLISH). INSTYTUT GEOCHEMII I
CHEMII ANALITYCZNEJ IM. W.I.
WERNADSKIEGO A.N. ZSRR, MOSKWA.

3738 Das, H. A., Zonderhuis, J.
**Non-destructive activation
analysis of antique gold coins.**
Chem. Weekblad, **61**, No. 18,
215–218 (1965).

(DUTCH). REACTOR CENTRUM
NEDERLAND, PETTEN, NETHERLANDS.

3739 Tomov, T., Popov, C., Stefanov,
G., Tolgyessy, J.
**Determination of indium in
sphalerite and Pb–Zn ores by
neutron activation analysis.**
Chem. Zvesti, **18**, 705–711 (1964).

(CZECHOSLOVAKIAN). LABORATORJA
AKTIVACIONEN ANALIZ, SOFIJA,
BULGARIA AND KATEDRA RADIOCHEMIE
A RADIACNEJ CHEMIE SLOVENSKEJ
VYSOKEJ SKOLY TECHNICKEJ,
BRATISLAVA, CZECHOSLOVAKIA.

3740 Breccia, A., Marchetti, F.,
Nucifora, G.
**Neutron activation analysis of
bornite and chalcopyrite.**
Ric. Sci., **36**, No. 6, 472–476
(1966).

(ITALIAN). ISTITUTO CHIMICO,
CIAMICIAN, UNIVERSITA DI BOLOGNA,
CENTRO NAZIONALE DI CHIMICA DELL
RADIAZIONI E DEI RADIOELEMENTI,
CNRO, BOLOGNA, ITALY.

3741 Isenhour, T. L.
**Instrumental activation analysis
using neutron capture and delayed
gamma-ray spectrometry.**
Thesis. Cornell University, 100p.
(1965).

(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y.

3745 Lenihan, J. M. A., Comar, D.,
Riviere, R., Kellershohn, C.
**Estimation of thyroid iodine in
vivo by activation analysis.**
Nature, **214**, 1221–1223 (June 17,
1967).

(ENGLISH). REGIONAL PHYSICS
DEPARTMENT, WESTERN REGIONAL
BOARD, GLASGOW, SCOTLAND.

3746 Schramel, P., Munzer, H.
**Detection of oxygen in metals,
particularly in steel, by
activation analysis with 14.4 MeV
neutrons.**
Acta Phys. Austr., **23**, 266–271
(1966).

(GERMAN). INSTITUT FUR
RADIUMFORSCHUNG UND KERNPHYSIK,
WIEN, AUSTRIA.

3747 Spikes, J. D.
**Radiation effects and peaceful
uses of atomic energy in the
plant and soil sciences.**
Radioecology, 5–11, New York,
Reinhold Publishing Corp. (1963).

(ENGLISH). DEPARTMENT OF
EXPERIMENTAL BIOLOGY, UNIVERSITY
OF UTAH, SALT LAKE CITY, UTAH.

3748 Junkins, R. L.
**Arsenic and its radioisotopes in
the environs.**
Radioecology, 615–618, New York,
Reinhold Publishing Corp. (1963).

(ENGLISH). HANFORD LABORATORIES,
HANFORD ATOMIC PRODUCTS
OPERATION, GENERAL ELECTRIC
COMPANY, RICHLAND, WASHINGTON.

3750 Crawford, G. I., Gray, A. L.,
Smith, G. D.
**Activation analysis applied to
steel production.**
Preprint British IRE Convention on
Electronics and Productivity,
Southampton, England (CONF-5-2),
14p. (April 1963).

(ENGLISH). PLESSEY NUCLEONICS
LTD., ENGLAND.

3751 Egiazarov, B. G., Karpukhin, O.
A., Matveev, V. V.
**An apparatus for neutron
activation analysis.**
Soviet Atomic Energy, **20**, No. 3,
252–256 (March 1966).

(ENGLISH TRANSLATION). RUSSIA.

ACTIVATION ANALYSIS - ACCESSION NUMBERS

- 3752 Braier, H. A., Mott, W. E.
Activation analysis for chlorine in petroleum products and related materials.
Nucl. Appl., **2**, 44-47 (February 1966).
 (ENGLISH). GULF RESEARCH AND DEVELOPMENT CO., PITTSBURGH, PA.
- 3753 Martin, T. C., Prudhomme, J. T., Morgan, I. L.
Activation analysis in process control applications.
Developments in Applied Spectroscopy, **5**, 485-494, Plenum Press, New York (1966).
 (ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.
- 3754 Lavrukhina, A. K.
Use of radioisotopes in quantitative analysis.
Jaderna Energje, **3**, 272-278 (1957).
 (POLISH). USTAV GEOCHEMIE A ANALYTICKE CHEMIE V.I. VERNADSKOHO AKADEMIE VED SSSR.
- 3755 Hamaguchi, H.
Radioactivation analysis of micro quantities of uranium.
Bunseki Kagaku, **6**, 256-260 (1957).
 (JAPANESE). JAPAN.
- 3756 Fineman, I.
Applications of activation analysis.
Svensk Kemisk Tidskrif, **70**, 226-234 (1958).
 (SWEDISH). INSTITUTIONEN FOR FYSIKALISK KEMI, KTH, STOCKHOLM, SWEDEN.
- 3757 Bagdavadze, N. V., Barbakadze, L. V., Ginturi, E. N., Kuchava, N. E., Mosulishvili, L. M., Kharabadze, N. E.
Radioactivation method for determination of gold in blood.
Soobshch. Akad. Nauk Gruz. SSR, **39**, No. 2, 287-294 (1965).
 (RUSSIAN). RUSSIA.
- 3758 Aoki, F., Okada, M.
Best conditions for use of the paraffin moderator to the radium-beryllium neutron source.
I. Position and direction of the sample.
Dia-II-Kai Genshiryoku Symposium Hobunshu, **3**, 32-35 (1958).
 (JAPANESE). INDUSTRIAL TECHNOLOGY INSTITUTE, TOKYO INDUSTRIAL LABORATORY, TOKYO, JAPAN.
- 3759 Chiotan, C., Zamfir, I., Curcaneanu, D.
Radioactivation determination of impurities in pure silicon dioxide prepared at the Borzesti chemical combine.
Studii Cercetari Chim., **14**, No. 7, 745-746 (1965).
 (RUMANIAN). INSTITUTUL DE FIZICA ATOMICA, BUCURESTI SI COMBINATUL CHIMIE BORZESTI, RUMANIA.
- 3760 Lobanov, E. M., Akbarov, U., Khudaiberganov, A.
Radioactivation method for determination of copper in ores, using magnetic β -separator.
Izv. Akad. Nauk Uz. SSR, Ser. Fiz.-Mat. Nauk, **9**, No. 6, 68-71 (1965).
 (RUSSIAN). RUSSIA.
- 3764 Kusaka, Y.
Radioactivation analysis with thermal neutrons.
Radioisotopes (Tokyo), **6**, 73-84 (1957).
 (JAPANESE). JAPAN.
- 3765 Rakovic, M.
Activation analysis.
Chem. Listy, **55**, 893-907 (1961).
 (CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY, FAKULTA VSEOBECNEHO LEKARSTVI, KARLOVA UNIVERSITA, PRAHA, CZECHOSLOVAKIA.
- 3766 Babaev, O., Lobanov, E. M.
Determination of lanthanum and cerium in minerals with the aid of activation analysis.
Dokl. Akad. Nauk Uz SSR, No. 4, 22-25 (1964).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 3767 Plaksin, I. N., Smirnov, V. N.,
Starchik, M. P.
**The use of Po^{210} alpha radiation
for the quantitative control of
concentration products containing
beryllium, boron, fluorine and
aluminum.**
*Tr. Tashkentsk. Konf. po Mirnomu
Ispolz. At. Energy, Akad. Nauk
Uz. SSSR, 2, 193–299 (1960).*
(RUSSIAN). RUSSIA.
- 3768 Fujii, I., Muto, H.
**14 MeV neutron activation analysis
using a new analytical
instrument.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 3,
170–172 (1963).*
(JAPANESE). TOKYO SHIBAURA
ELECTRIC CO. LTD., JAPAN.
- 3769 Hori, R.
**Activation analysis of sodium and
potassium in biological material.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 3,
173–175 (1963).*
(JAPANESE). TOYAMA UNIVERSITY,
JAPAN.
- 3770 Kawashima, T.
**Determination of impurities in the
pure rare earths by
radioactivation analysis.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 3,
176–178 (1963).*
(JAPANESE). ELECTRICAL
COMMUNICATION LABORATORY, TOKYO,
JAPAN.
- 3771 Kobayashi, M., Sawai, T.,
Nagatsuka, S., Maeda, S.
**Activation analysis of oxygen by
means of (γ, n) nuclear
reaction.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 3,
179–181 (1963).*
(JAPANESE). TOKYO METROPOLITAN
ISOTOPE CENTER, JAPAN.
- 3772 Okada, M.
**Radioactivation of elements by use
of pile neutrons. The extent of
the formation of short-lived
gamma active nuclides.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 3,
182–183 (1963).*
(JAPANESE). TOKYO INDUSTRIAL
LABORATORY, INDUSTRIAL RESEARCH
INSTITUTE, JAPAN.
- 3773 Kobayashi, M., Nagatsuka, S.,
Maeda, S., Horiguchi, Y.,
Higashi, K.
**Activation method applied to
dilution measurement in the
river.**
*Proc. Japan Conference
Radioisotopes, 5th, No. 4, 79–81
(1963).*
(JAPANESE). TOKYO METROPOLITAN
ISOTOPE CENTER, JAPAN.
- 3774 Ehmann, W. D., Lovering, J. F.
**The abundance of mercury in
meteorites and rocks by neutron
activation analysis.**
*Geochim. Cosmochim. Acta, 31,
357–376 (1967).*
(ENGLISH). DEPARTMENT OF
GEOPHYSICS, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, AUSTRALIA.
- 3775 Wechter, M. A., Voigt, A. F.
**Determination of potassium,
rubidium, and barium in their
tungsten bronzes by neutron and
high energy photon activation.**
*Anal. Chem., 38, 1681–1683 (Nov.
1966).*
(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.
- 3776 Kerrigan, F. J.
**Neutron activation analysis.
Simplex method of linear
programming.**
*Anal. Chem., 38, 1677–1680 (Nov.
1966).*
(ENGLISH). SPECIAL LABORATORY OF
NUCLEAR MEDICINE AND BIOLOGY,
VETERANS ADMINISTRATION HOSPITAL,
OMAHA, NEBRASKA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3777 European Atomic Energy Community
Practical aspects of activation analyses with charged particles.
 EUR 2957.E, 160p. (1966).
 (ENGLISH). EUROPEAN ATOMIC ENERGY COMMUNITY, BRUSSELS, BELGIUM.
- 3778 Bramlitt, E. T.
Gamma-gamma coincidence counting applied to chlorine analysis by neutron activation.
Anal. Chem., **38**, 1669-1674 (Nov. 1966).
 (ENGLISH). ATOMICS INTERNATIONAL, A DIVISION OF NORTH AMERICAN AVIATION, INC., CANOGA PARK, CALIF.
- 3780 Cobb, J. C.
Determination of lanthanide distribution in rocks by neutron activation and direct gamma counting.
Anal. Chem., **39**, 127-131 (January 1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 3781 Priest, G. L., Burns, F. C., Priest, H. F.
Uniform neutron irradiation of inhomogenous samples.
Anal. Chem., **39**, 110-113 (Jan. 1967).
 (ENGLISH). U.S. ARMY MATERIALS RESEARCH AGENCY, WATERTOWN, MASS.
- 3783 Mak, B. K., Bird, J. R., Sabine, T. M.
Proton microanalysis.
Nature, **211**, 738-739 (August 13, 1966).
 (ENGLISH). UNIVERSITY OF NEW SOUTH WALES, KENSINGTON, NEW SOUTH WALES.
- 3785 Dibbs, H. P., Mc Master, C. H.
The determination of antimony in high-purity iron by neutron activation analysis.
Chem. Ind. (London), No. 5, 217-219 (1965).
 (ENGLISH). MINERAL SCIENCES DIVISION, MINES BRANCH,
- DEPARTMENT OF MINES AND TECHNICAL SURVEYS, OTTAWA, CANADA.
- 3788 Andrews, A. E., Hasseltine, E. H., Olson, N. T., Smith, H. P.
Cesium ion sputtering of aluminum.
J. Appl. Phys., **37**, 3344-3347 (August 1966).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.
- 3789 Brune, D.
Low temperature irradiation applied to neutron activation analysis of mercury in human whole blood.
Acta Chem. Scand., **20**, 1200-1202 (1966).
 (ENGLISH). AB ATOMENERGI, STUDSVIK, SWEDEN.
- 3790 Hislop, J. S., Wainerdi, R. E.
Extraterrestrial neutron activation analysis.
Anal. Chem., **39**, 28A-39A (February 1967).
 (ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 3791 Texas A and M University.
Investigations in automated activation analysis.
 TEES-2671-5, 157p. (August 31, 1966).
 (ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 3792 Bujdoso, E., Miskei, M., Ormos, G.
Activation analysis. Bibliography III.
 Rendeles Szam, KFKI 2574, 148p. (1966).
 (HUNGARIAN) (ENGLISH AND RUSSIAN SUMMARIES). BUDAPEST, HUNGARY.
- 3793 Girardi, F., Guzzi, G., Pauly, J.
First addendum to the data handbook for sensitivity calculations in neutron activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- EUR 1898.e Addendum I, 22p.
(1966).
(ENGLISH). JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.
- 3794 Martin, T. C., Blake, K. R., Morgan, I. L., Parker, C. V., Sieberg, R.
An on-line nuclear analysis facility.
ORO-2980-12, 59p. (June 15, 1966).
(ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.
- 3796 Wood, D. E.
Activation analysis in the metals industry
Nuclear News, 9, No. 9, 12-17 (September 1966).
(ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 3797 Menon, M. P., Rainosek, A. P., Wainerdi, R. E.
Activation analysis for nondestructive localization of impurities in foils.
Nuclear Applications, 2, 335-340 (August 1966).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 3798 Yule, H. P.
Data convolution and peak location, peak area, and peak energy measurements in scintillation spectrometry.
Anal. Chem., 38, 103-105 (January 1966).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
- 3799 Abe, S.
Application of photoactivation to the determination of germanium in titanium.
Anal. Chem., 38, 1622-1623 (Oct. 1966).
(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING, YAMAGATA UNIVERSITY, YONEZAWA-SHI, JAPAN.
- 3803 Gerrard, M.
Gamma activation analysis of rocks and ores.
Isotopes and Radiation Technology, 3, No. 4, 334-339 (Summer 1966).
(ENGLISH). OAK RIDGE, TENNESSEE.
- 3804 Perezhugin, G. A.
Neutron activation determination of traces of manganese using substoichiometric separation.
J. Anal. Chem., USSR, 21, No. 7, 787-788 (July 1966).
(ENGLISH TRANSLATION). V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES OF THE USSR, MOSCOW, RUSSIA.
- 3808 Brune, D., Landstrom, O.
Freezing technique in neutron activation analysis.
Radiochim. Acta, 5, 228-230 (July 1966).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 3809 Johnson, R. A.
Resolving radionuclide binary mixtures with a linear equation involving decay measurements in two spectral channels.
Radiochim. Acta, 5, 231-233 (July 1966).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIF.
- 3810 Ames Laboratory
Annual summary research report in chemistry.
IS-1500, Section C, 111p.
(ENGLISH). AMES LABORATORY, AMES, IOWA.
- 3811 Greenwood, R. C., Spalek, J.
Evaluation of thermal neutron capture gamma ray techniques for nondestructive analysis of reactor burnable poisons.
IITRI-578P11-54, 48p. (Oct. 27, 1965).
(ENGLISH). IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3841 Keepin, G. R.
Nondestructive detection, identification, and analysis of fissionable materials.
 WASH-1076, 150-171.
 (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 3910 De Voe, J. R.
Radiochemical analysis. Activation analysis, instrumentation, radiation techniques, and radioisotope techniques, July 1965-June 1966.
 NBS-TN-404, 238p. (Sept. 30, 1966).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 3934 Kohman, T. P.
Nuclear chemistry and geochemistry research.
 NYO-844-67, 67p. (June 30, 1966).
 (ENGLISH). CARNEGIE INSTITUTE OF TECHNOLOGY, PITTSBURGH, PENNSYLVANIA.
- 3948 Jeffery, P. G., Bakes, J. M.
The determination of fluorine in fluorite ores and concentrates by isotope-source fast-neutron activation analysis.
Analyst, **92**, No. 1092, 151-155 (March 1967).
 (ENGLISH). WARREN SPRING LABORATORY, MINISTRY OF TECHNOLOGY, STEVENAGE, HERTS., ENGLAND.
- 3949 Bowen, H. J. M.
The determination of antimony, cadmium, cerium, iridium and silver in biological material by radioactivation.
Analyst, **92**, 118-123 (Feb. 1967).
 (ENGLISH). CHEMISTRY DEPARTMENT, THE UNIVERSITY, READING, BERKS., ENGLAND.
- 3954 Maxia, V., Rollier, M. A.
Determination of selenium in amino acids at the 0.1 ppm level by pulsed-neutron activation.
Nucl. Appl., **3**, 187-190 (March 1967).
- (ENGLISH). UNIVERSITY OF PAVIA, ITALY.
- 3955 Maxia, V., Meloni, S., Rollier, M. A., Valentini, M. T.
Determination of trace amounts of cobalt in haemin by neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **18**, No. 4, 267-269 (1967).
 (ENGLISH). LABORATORIO DI RADIOCHIMICA DELL'ISTITUTO DI CHIMICA, GENERALE DELL'UNIVERSITA DI PAVIA, PAVIA, ITALY.
- 3956 Dickson, R. C., Tomlinson, R. H.
Instrumental radioactivation analysis of selenium in biological materials.
Intern. J. Appl. Radiation Isotopes, **18**, No. 3, 153-159 (1967).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 3957 Malvano, R., Rosa, U., Grosso, P.
Determination of some trace elements in human serum-albumin by neutron-activation analysis.
Intern. J. Appl. Radiation Isotopes, **18**, 121-125 (1967).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). SORIN, CENTRO RICERCA NUCLEARE, SALUGGIA, ITALY.
- 3958 Edgington, D. N.
The estimation of thorium and uranium at the submicrogram level in bone by neutron activation.
Intern. J. Applied Radiation Isotopes, **18**, 11-18 (Jan. 1967).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). RADIOLOGICAL PHYSICS DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 3959 Ouellette, R. P., Balcius, J. F., Zuppinger, K.
The determination of iodine-containing compounds by

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- neutron activation of I^{129} .**
Intern. J. Appl. Radiation Isotopes, **17**, No. 11-12, 649-655 (1966)
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). PHYSICS RESEARCH LABORATORY AND DEPARTMENT OF MEDICINE, MASSACHUSETTS GENERAL HOSPITAL, BOSTON, MASSACHUSETTS.
- 3960 Turekian, K. K., Johnson, D. G.
The barium distribution in sea water
Geochim. Cosmochim. Acta, **30**, 1153-1174 (Nov. 1966).
 (ENGLISH). DEPARTMENT OF GEOLOGY, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.
- 3961 Brunfelt, A. O., Johansen, O., Steinnes, E.
Determination of copper, gallium and zinc in standard rocks by neutron activation.
Anal. Chim. Acta, **37**, No. 2, 172-178 (Feb. 1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY AND INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 3962 Cassatt, W. A., Estey, H. P., Slott, R.
The determination of boron in dilute aqueous solutions by neutron activation analysis.
Anal. Chim. Acta, **37**, No. 4, 545-548 (1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON.
- 3964 Ordogh, M., Upor-Juvancz, V.
Analysis of contaminants in uranium compounds by post-irradiation paper chromatography.
J. Chromatog., **25**, 464-470 (Dec. 1966).
 (ENGLISH). HUNGARIAN ACADEMY OF SCIENCES, CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 3965 Hammar, L., Forsen, S.
Formation of nitrogen-13, fluorine-17 and fluorine-18 in reactor-irradiated H_2O and D_2O
Application to activation analysis and fast neutron flux monitoring.
J. Inorg. Nucl. Chem., **28**, 2111-2123 (1966).
 (ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.
- 3968 Smythe, L. E.
Forensic applications of neutron activation analysis.
Atomic Energy Australia, **9**, No. 2, 2-6 (April 1966).
 (ENGLISH). ANALYTICAL CHEMISTRY SECTION, AUSTRALIAN ATOMIC ENERGY COMMISSION, AUSTRALIA.
- 3969 Turekian, K. K.
Trace elements in sea water and other natural waters.
 YALE-2912-12, 60p. (August 31, 1966).
 (ENGLISH). YALE UNIVERSITY, DEPARTMENT OF GEOLOGY.
- 3970 Holm, D. M., Sanders, W. M.
Interference reduction and sensitivity improvement in activation analysis.
 LA-DC-7931, 10p. (1964).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 3973 Coates, A. D., Swisher, J. A.
Application of fast neutron activation analysis to polymer dosimetry.
 AD-635655, 18p. (March 1966).
 (ENGLISH). U.S. ARMY MATERIAL COMMAND, BALLISTIC RESEARCH LABORATORY, ABERDEEN PROVING GROUND, MARYLAND.
- 3975 Slunecko, J., Kukula, F., Simkova, M.
Determination of tungsten in iron by activation analysis.
 UJV-1368, 16p. (June 1966).
 (RUSSIAN). (CZECH SUMMARY). INFORMACNI STREDISKO USTAV

ACTIVATION ANALYSIS—ACCESSION NUMBERS

JADERNEHO VYZKUMU CSAV, REZ,
PRAGUE, CZECHOSLOVAKIA.

- 3976 Blake, K. R., Parker, C. V.,
England, L. D., Morgan, I. L.
**Elemental trace analysis by charged
particle and neutron activation.**
ORO-2980-14, 44p. (July 1, 1966).
(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.
- 3977 Holm, D. M., Basmajian, J. A.,
Sanders, W. M.
**Observation of the microscopic
distribution of oxygen and carbon
in metals by He³ activation.**
LA-3515, 16p. (May 10, 1966).
(ENGLISH). LOS ALAMOS SCIENTIFIC
LABORATORY OF THE UNIVERSITY OF
CALIFORNIA, LOS ALAMOS, NEW
MEXICO.
- 3978 Schulze, W.
**Detection limits for coincidence
methods in activation analysis.**
Z. Anal. Chem., **223**, 1-10 (1966).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR ANORGANISCHE CHEMIE,
FREIE UNIVERSITAT BERLIN,
GERMANY.
- 3979 Pierce, T. B., Smales, A. A.
**Some recent Harwell work on
activation analysis.**
Z. Anal. Chem., **221**, 80-85 (1966).
(ENGLISH) (GERMAN SUMMARY).
ANALYTICAL CHEMISTRY BRANCH,
A.E.R.E., HARWELL, ENGLAND.
- 3980 Perdijon, J.
**Experimental sensitivities in
neutron activation and gamma
spectrometry with a 150-kV
accelerator.**
Anal. Chem., **39**, No. 4, 448-456
(1967).
(ENGLISH). SAMES, GRENOBLE,
ISERE, FRANCE.
- 3981 Twitty, B. L., Fritz, K. M.
**Internal standard techniques for
determination of oxygen in
magnesium, steel, and titanium by
activation analysis.**
- Anal. Chem.*, **39**, No. 4, 527-529
(1967).
(ENGLISH). NATIONAL LEAD CO. OF
OHIO, CINCINNATI, OHIO.
- 3982 Livingston, H. D., Smith, H.
**Estimation of molybdenum in
biological material by neutron
activation analysis.**
Anal. Chem., **39**, No. 4, 538-539
(April 1967).
(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, GLASGOW
UNIVERSITY, GLASGOW, SCOTLAND.
- 3985 Pauly, J., Sabbioni, E., Girardi, F.
**Determination of magnesium by
activation with tritons produced
in a nuclear reactor by the
action of neutrons on lithium
fluoride.**
Compt. Rend., Ser. C, **263**, No. 15,
870-871 (1966).
(FRENCH). CENTRE COMMUN DE
RECHERCHE, EURATOM, ISPRA,
VARESE, ITALY.
- 3986 Aumann, D. C., Born, H. J.,
Henkelmann, R.
**Use of fast reactor neutrons for
rapid and nondestructive trace
analysis, especially of oxygen.**
Z. Anal. Chem., **221**, 101-108
(1966).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR RADIOCHEMIE,
TECHNISCHE HOCHSCHULE MUNCHEN,
GERMANY.
- 3987 Turkowsky, C., Stark, H.
**Trace analysis of uranium in rocks
with the help of neutron
activation.**
Z. Anal. Chem., **221**, 205 (1966).
(GERMAN). INSTITUT FUR
RADIOCHEMIE DER TECHNISCHE
HOCHSCHULE MUNCHEN, GARCHING,
GERMANY.
- 3988 Lux, F., Braunstein, L.
**Activation analysis investigation
of paintings. Determination of
trace contents of white lead of
paintings of the "Alte Pinakotek"**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MUNCHEN, GERMANY.
- at Munich.
Z. Anal. Chem., **221**, 235–254
(1966).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR RADIOCHEMIE DER
TECHNISCHEN HOCHSCHULE MUNCHEN,
GERMANY.
- 3989 Monnier, D., Loepfe, E.
**Activation of short lived
isotopes. Rapid separation by
exchange on mercury.**
Anal. Chim. Acta, **37**, No. 3,
339–349 (1967).
(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). LABORATOIRES DE
CHIMIE MINERALE ET ANALYTIQUE,
UNIVERSITE DE GENEVE, GENEVA,
SWITZERLAND.
- 3990 Doge, H. G.
**Use of ion exchange chromatography
in activation analysis for sodium
and potassium in molybdenum and
tungsten.**
Anal. Chim. Acta, **38**, No. 1–2,
207–211 (1967).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR METALLPHYSIK UND
REINSTMETALLE DER DEUTSCHEN
AKADEMIE DER WISSENSCHAFTEN ZU
BERLIN, DRESDEN, GERMANY.
- 3991 Fourcy, A., Dognin, J., Faure, J.,
Neuburger, M.
**Radioactivation analysis for
copper determination in vine
growing and in vine products.**
*Intern. J. Appl. Radiation
Isotopes*, **17**, No. 11–12, 629–636
(1966).
(FRENCH) (ENGLISH, RUSSIAN AND
GERMAN SUMMARIES). LABORATOIRE
DE BIOLOGIE VEGETALE DU CENTRE
D'ETUDES NUCLEAIRES DE GRENOBLE,
FRANCE.
- 3992 Wilkniss, P. E., Born, H. J.
**Activation analysis of oxygen at
the surface of solids.**
*Intern. J. Appl. Radiation
Isotopes*, **18**, 57–64 (January
1967).
(GERMAN) (ENGLISH, FRENCH AND
RUSSIAN SUMMARIES). INSTITUT FUR
- 3993 De Neve, R., De Soete, D., Hoste,
J.
**Second-order interference in the
neutron activation analysis of
arsenic in a germanium matrix.**
Anal. Chim. Acta, **36**, 508–514
(December 1966).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCE, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 3994 Tomura, K., Higuchi, H.
**The determination of copper in
zinc materials by neutron
activation analysis using the
 $^{65}\text{Cu}(n,\gamma)$ ^{66}Cu reaction.**
Anal. Chim. Acta, **37**, 33–41
(January 1967).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). THE INSTITUTE FOR
ATOMIC ENERGY, RIKKYO (ST. PAULS)
UNIVERSITY, SAJIMA, YOKOSUKA,
JAPAN.
- 3995 Nozaki, T., Okuo, T., Akutsu, H.,
Furukawa, M.
**The radioactivation analysis of
semiconductor graphite for
nitrogen by the $^{14}\text{N}(p,\alpha)$ ^{11}C
reaction.**
Bull. Chem. Soc. Japan, **39**,
2685–2689 (December 1966).
(ENGLISH). INSTITUTE OF PHYSICAL
AND CHEMICAL RESEARCH,
YAMATO-MACHI, SAITAMA, JAPAN.
- 3996 Haerdi, W., Balsenc, L., Monnier,
D.
**Activation analysis of short-lived
isotopes. Study of the
nondestructive determination of
hafnium (Hf-179m , $T = 19\text{s}$) and
its applications.**
Chimia, **20**, 429–430 (December
1966).
(FRENCH) (ENGLISH SUMMARY).
LABORATOIRES DE CHIMIE ANALYTIQUE
ET DE CHIMIE MINERALE DE
L'UNIVERSITE DE GENEVE,
SWITZERLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 3997 Monnier, D., Daniel, R., Haerdi, W.
Activation analysis of short-lived isotopes. Reactions produced by fast neutrons from reactor
 AGN-201-P
Chimia, **20**, 428-429 (December 1966).
 (FRENCH) (ENGLISH SUMMARY).
 LABORATOIRES DE CHIMIE ANALYTIQUE
 ET DE CHIMIE MINERALE DE L'
 UNIVERSITE DE GENEVE,
 SWITZERLAND.
- 3998 Wytttenbach, A.
The nondestructive activation analysis determination of the chief constituents of larger sample pieces (examples used - coins).
Helv. Chim. Acta, **49**, 2555-2563 (1966).
 (GERMAN). EIDGENOSSISCHES
 INSTITUT FUR REAKTORFORSCHUNG,
 WURENLINGEN, SWITZERLAND.
- 4000 Moller, E., Starfelt, N.
Microanalysis of fluorine contamination and its depth distribution in zircaloy by the use of a charged particle nuclear reaction.
 AE-237, 16p. (July 1966).
 (ENGLISH). AKTIEBOLAGET
 ATOMENERGI, STOCKHOLM, SWEDEN.
- 4001 Pottier, R., Berger, R.
Analysis of radionuclide mixtures by α - γ and β - γ coincidences using a simple device.
 CEA-R-3033, 44p. (June 1966).
 (FRENCH) (ENGLISH SUMMARY).
 COMMISSARIAT A L'ENERGIE
 ATOMIQUE, CENTRE D'ETUDES
 NUCLEAIRES DE FONTENAY AUX ROSES,
 FRANCE.
- 4002 Soremark, R.
Use of short-lived nuclides in medical research.
Advances Biol. Med. Phys., **10**,
 91-148 (1965).
 (ENGLISH). HARVARD SCHOOL OF
 DENTAL MEDICINE, BOSTON,
 MASSACHUSETTS.
- 4004 Samsahl, K.
Neutron-activation analysis of biological material with high radiation levels.
 AE-247, 15p. (Sept. 1966).
 (ENGLISH). AKTIEBOLAGET
 ATOMENERGI, STOCKHOLM, SWEDEN.
- 4005 Parker, C. V., Martin, T. C., Morgan, I. L.
Separation of isotopic interferences utilizing Ge(Li) gamma ray detectors.
 ORO-2980-13, 4p. (July 5, 1966).
 (ENGLISH). TEXAS NUCLEAR
 CORPORATION, TEXAS.
- 4006 Rossouw, S. F.
Nuclear techniques in forensic science. An annotated bibliography.
 PEL-116, 28p. (June 1966).
 (ENGLISH). ATOMIC ENERGY BOARD,
 PELINDABA, SOUTH AFRICA.
- 4153 Szabo, E., Rausch, H.
Activation analysis of trace contaminants in gallium arsenide semiconductor materials.
Acta Chim. Acad. Sci. Hung., **54**,
 No. 3-4, 231-240 (1967).
 (ENGLISH). CENTRAL RESEARCH
 INSTITUTE FOR PHYSICS, AND
 RESEARCH INSTITUTE FOR
 TELECOMMUNICATION, BUDAPEST,
 HUNGARY.
- 4189 Abe, S.
Activation analysis of titanium in iron by photonuclear reactions.
Nippon Kagaku Zasshi, **87**, 710-714
 (July 1966).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPARTMENT OF CHEMICAL
 ENGINEERING, YAMAGATA UNIVERSITY,
 MOTONAKABAKURO-CHO, YONEZAWA-SHI,
 JAPAN.
- 4190 Kertesz, L., Csajka, M.
Determination of extrathyroidal iodine by neutron-activation analysis.
Acta Biochim. Biophys., Acad. Sci. Hung., **1**, 187-196 (1966).
 (ENGLISH). 2ND DEPARTMENT OF
 MEDICINE, UNIVERSITY MEDICAL

ACTIVATION ANALYSIS – BIBLIOGRAPHY

SCHOOL, DEBRECEN AND CENTRAL
RESEARCH INSTITUTE FOR PHYSICS,
HUNGARIAN ACADEMY OF SCIENCES,
BUDAPEST, HUNGARY.

4191 Patek, P., Sorantin, H.

**Nondestructive determination of
trace elements in red phosphorous
by neutron activation and gamma
spectrometry.**

Z. Anal. Chem., **226**, No. 4,
338–346 (1967).

(GERMAN) (ENGLISH SUMMARY).

INSTITUT FÜR CHEMIE,
REAKTORZENTRUM SEIBERSDORF,
ÖSTERREICHISCHE STUDIENGESELL-
SCHAFT FÜR ATOMENERGIE GMBH,
SEIBERSDORF, AUSTRIA.

4192 Brunfelt, A. O., Steinnes, E.

**Determination of chromium in rocks
by neutron activation and anion
exchange.**

Anal. Chem., **39**, No. 7, 833–834
(1967).

(ENGLISH). MINERALOGICAL-GEOLOGI-
CAL MUSEUM, UNIVERSITY OF OSLO,
OSLO, NORWAY AND INSTITUTT FOR
ATOMENERGIE, ISOTOPE LABORATORY,
KJELLER, NORWAY.

4193 Ricci, E., Hahn, R. L.

**Sensitivities for activation
analysis of 15 light elements
with 18 MeV helium-3 particles.**

Anal. Chem., **39**, No. 7, 794–797
(1967).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

4194 Shenberg, C., Gilat, J., Finston,
H. L.

**Use of x-ray spectrometry in
activation analysis.**

Determination of bromine.

Anal. Chem., **39**, No. 7, 780–785
(1967).

(ENGLISH). NUCLEAR CHEMISTRY
DEPARTMENT, SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.

4195 Johansen, O., Steinnes, E.

**Determination of chlorine in U. S.
G. S. standard rocks by neutron**

activation analysis.

Geochim. Cosmochim. Acta, **31**, No.
6, 1107–1109 (1967).

(ENGLISH). ISOTOPE LABORATORY,
INSTITUTT FOR ATOMENERGI,
KJELLER, NORWAY.

4196 Alpatov, Y. S., Boreisha, E. G.,
Gordienko, A. G., Zelenin, V. M.,
Korobko, M. I.

**Estimate of the sensitivity and
accuracy of determining the total
amount of oxygen in metals by the
neutron activation method.**

Industrial Laboratory, **32**, No. 12,
1824–1827 (1966).

(ENGLISH TRANSLATION). INSTITUTE
OF AUTOMATION OF THE STATE
COMMITTEE ON APPARATUS
CONSTRUCTION, METHODS OF
AUTOMATION AND CONTROL SYSTEMS,
ASSOCIATED WITH THE STATE
PLANNING COMMISSION OF THE USSR.

4197 Lemberg, I. K., Girshin, A. B.,
Gusinskii, G. M.

**Determining the O^{18} concentration
by detecting γ -quanta emitted in
the reaction $O^{18}(\alpha, n\gamma)Ne^{21}$.**

Industrial Laboratory, **32**,
1833–1834 (1966).

(ENGLISH TRANSLATION). A.E.
IOFFE PHYSICOTECHNICAL INSTITUTE,
ACADEMY OF SCIENCES OF THE USSR.

4198 Wilkniss, P. E.

**Nuclear methods of analysis for
lunar and planetary exploration.**

Atompraxis, **12**, 391–392 (August
1966).

(ENGLISH). RESEARCH AND
DEVELOPMENT DEPARTMENT, U.S.
NAVAL PROPELLANT PLANT, INDIAN
HEAD, MARYLAND.

4199 Smith, L. H.

**Statistical techniques in
activation analysis.**

Anal. Chim. Acta, **36**, No. 2,
149–165 (1966).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). ARLINGTON STATE
COLLEGE, UNIVERSITY OF TEXAS,
ARLINGTON, TEXAS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 4200 Menon, M. P., Berry, D. W.
A spectrum stripping method for the computer-coupled activation analysis of unknown samples by gamma-ray spectrometry.
Anal. Chim. Acta, **38**, No. 3, 349-356 (1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 4201 Malvano, R.
Neutron activation analysis for sodium traces in magnesium.
Anal. Chim. Acta, **38**, No. 3, 341-347 (1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). SORIN, CENTRO RICERCA NUCLEARI, SALUGGIA-VERCELLI, ITALY.
- 4202 Gray, A. L.
Activation analysis in process control.
Control, **11**, 19-23 (January 1967).
 (ENGLISH). ENGLAND.
- 4203 Alian, A., Sanad, W.
Neutron activation analysis by standard addition and solvent extractions. Determination of traces of thorium in aluminium by extraction of protactinium-233.
Anal. Chim. Acta, **38**, No. 3, 327-332 (1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). NUCLEAR CHEMISTRY DEPARTMENT, ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT, CAIRO, UAR.
- 4204 Cooper, R. D., Brownell, G. L.
A large coaxial Ge(Li) detector with plastic anticoincidence scintillator for activation analysis.
Nucl. Instrument Methods, **51**, No. 1, 72-76 (1967).
 (ENGLISH). NUCLEAR ENGINEERING DEPARTMENT, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS.
- 4205 Eden, Y.
A fast identification of traces of silicon by activation analysis with 14 MeV neutrons.
Nucl. Instrument Methods, **49**, No. 2, 352-354 (1967).
 (ENGLISH). SOREQ NUCLEAR RESEARCH CENTER, YAVNE, ISRAEL.
- 4206 Sterlinski, S.
The limit of identification for short-lived radioisotopes in activation analysis. The limit of measurement of half-life.
Nucl. Instruments Methods, **47**, 329-341 (1967).
 (ENGLISH). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSAW-ZERAN, POLAND.
- 4207 Akaboshi, M., Maeda, T., Waki, A.
Determination of the nucleic acid content of protozoa by activation analysis.
Biochim. Biophys. Acta, **138**, No. 3, 596-597 (1967).
 (ENGLISH). RESEARCH REACTOR INSTITUTE KYOTO UNIVERSITY, KUMATORI-CHO, SENNAN-GUN, OSAKA, JAPAN.
- 4208 Rustichelli, F., Maracci, G., Bresesti, M.
Activation techniques in the measurement of the ^{235}U content in depleted uranium.
Nucl. Instruments Methods, **42**, 333-335 (July 1966).
 (ENGLISH). EXPERIMENTAL NEUTRON PHYSICS LABORATORY, REACTOR PHYSICS DEPARTMENT AND NUCLEAR CHEMISTRY LABORATORY, CHEMISTRY DEPARTMENT, CCR, EURATOM, ISPRA, ITALY.
- 4209 Gorodetzky, S., Pape, A., Chevallier, A., Sens, J. C., Armbruster, R.
Low energy ^3He activation analyses for carbon and oxygen.
Nucl. Instruments Methods, **42**, 269-272 (July 1966).
 (ENGLISH). INSTITUT DE RECHERCHES NUCLEAIRES, STRASBOURG, FRANCE.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 4210 Schonfeld, E.
ALPHA. A computer program for the determination of radioisotopes by least-squares resolution of the gamma-ray spectra.
Nucl. Instruments Methods, **42**, 213-218 (July 1966).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 4211 Albert, P.
Radiochemical methods in analytical chemistry. Activation analysis with γ ray photons and charged particles.
Chimia, **21**, No. 3, 116-125 (1967).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY, FRANCE.
- 4212 Bowen, H. J. M.
Neutron activation analysis.
Chimia, **21**, No. 3, 113-116 (1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF READING, ENGLAND.
- 4213 Rakovic, M., Prochazkova, Z.
The accuracy evaluation of the formerly proposed correction factor for its practical application in activation analysis.
Jaderna Energie, **12**, 384-386 (October 1966).
 (CZECHOSLOVAKIAN) (ENGLISH SUMMARY). KATEDRA LEKARSKE FYZIKY A NUKEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KARLOVY UNIVERSITY, PRAHA, CZECHOSLOVAKIA.
- 4214 Broadhead, K. G., Shanks, D. E.
The application of 2.8 MeV (d,d) neutrons to activation analysis.
Intern. J. Applied Radiation Isotopes, **18**, No. 5, 279-283 (1967).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). RENO METALLURGY RESEARCH CENTER, BUREAU OF MINES, U.S. DEPARTMENT OF THE INTERIOR, RENO, NEVADA.
- 4215 Juliano, J. O., Buot, F.
Construction and performance of a simple neutron source.
Philippine J. Science, **94**, 221-234 (June 1965).
 (ENGLISH). PHILIPPINE ATOMIC RESEARCH CENTER, DILIMAN, QUEZON CITY, PHILIPPINES.
- 4216 Nagy, L. G., Mester, Z., Takacs, G.
Neutron activation analysis of metal trace impurities in ascorbic acid.
Magyar Kemiai Folyoirat, **73**, No. 3, 137-138 (1967).
 (HUNGARIAN) (ENGLISH SUMMARY). BUDAPESTI MUSZAKI EGYETEM FIZIKAI-KEMIAI TANSZEKE, BUDAPEST, HUNGARY.
- 4217 Nagy, L. G., Schiff, E.
A method of pretreatment for the determination of trace impurities (Cu, Au) in high-purity gallium by neutron activation analysis.
Magyar Kemiai Folyoirat, **73**, No. 4, 188 (1967).
 (HUNGARIAN) (ENGLISH SUMMARY). BUDAPESTI MUSZAKI EGYETEM FIZIKAI KEMIAI TANSZEKE, BUDAPEST, HUNGARY.
- 4219 Hayes, D. W., Slowey, J. F., Hood, D. W.
Rare earth distribution in waters of Gulf of Mexico.
 TID-23295, Section 4, 112p.
 (ENGLISH). USA.
- 4221 Talat-Erben, M., Okar, S.
Determination of thallium by activation analysis based on the reaction $^{203}\text{Tl}(n, 2n)^{202}\text{Tl}$.
 CNAEM-39, 14p. (September 1966).
 (ENGLISH). P.K.I., HAVA ALANI, ISTANBUL, TURKEY.
- 4224 Smith, G. W., Becker, D. A., Lutz, G. J., Currie, L. A., De Voe, J. R.
Determination of trace elements in standard reference materials by neutron activation analysis.
Anal. Chim. Acta, **38**, No. 3, 333-340 (1967).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, GAITHERSBURG, MARYLAND.

SUMMARIES). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.

4226 Ryan, V. A., Green, J. L.,
Lowenhaupt, E. H.

Oxygen and carbon content of lanthanide and actinide metals obtained by reduction of wet and dry produced trifluorides.

J. Inorg. Nucl. Chem., **29**, 581–584 (February 1967).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WYOMING, LARAMIE, WYOMING.

4232 Bate, L. C., Healy, W. B., Ludwig,
T. G.

Microelement content of hair from New Zealand boys as determined by neutron activation analysis.

New Zealand J. Science, **9**, No. 3, 559–564 (1966).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE, SOIL BUREAU, DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT, NEW ZEALAND AND DENTAL RESEARCH UNIT, M.R.C., WELLINGTON, NEW ZEALAND.

4227 Petersen, D. F., Langham, W. H.

Neutron activation of sulfur in hair. Application in a nuclear accident dosimetry study.

Health Physics, **12**, No. 3, 381–384 (1966).

(ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, UNIVERSITY OF CALIFORNIA, LOS ALAMOS, NEW MEXICO.

4240 Kato, R., Ono, R., Kono, T.,
Kishitani, M., Ono, M., Hayashi,
S.

Activation analysis of cancer.

Radioisotopes (Tokyo), **15**, 221–223 (1966).

(ENGLISH) (JAPANESE SUMMARY). NUCLEAR RESEARCH LABORATORY, RITUMEIKAN UNIVERSITY, KYOTO, JAPAN.

4228 Kenna, B. T., Conrad, F. J.

Fast neutron flux pattern for a 14-MeV neutron generator.

Health Physics, **12**, No. 4, 564–566 (April 1966).

(ENGLISH). ANALYTICAL METHODS DIVISION, SANDIA LABORATORY, ALBUQUERQUE, NEW MEXICO.

4242 Anoshin, G. N., Potapyev, V. V.

Gold in granites of the Altai and Transbaikal (according to data of the radioactivation analysis).

Geokhimiya, No. 9, 1070–1074 (September 1966).

(RUSSIAN) (ENGLISH SUMMARY). INSTITUTE OF GEOLOGY AND GEOPHYSICS OF THE SIBERIAN BRANCH OF THE ACADEMY OF SCIENCE, USSR, NOVOSIBIRSK, RUSSIA.

4230 Das, H. A., Zonderhuis, J.

The non-destructive analysis of ancient silver coins.

Rec. Trav. Chim., **85**, 837–841 (August 1966).

(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, NETHERLANDS.

4243 Agelao, G., Dardanoni, Z. T.

Determination of the quantity of two elements contained in a material by neutron activation analysis, when there is a small difference in their half lives.

Atti. Accad. Sci. Lettere Arti Palermo, Pt. 1, **24**, 85–94 (1963/1964).

(ITALIAN) (ENGLISH AND FRENCH SUMMARIES). ISTITUTO DI APPLICAZIONI E IMPIANTI NUCLEARI

4231 Quittner, P., Simonits, A., Elek,
A.

Determination of aluminium and sodium in tungsten by non-destructive activation analysis.

Talanta, **14**, No. 3, 417–420 (1967).

(ENGLISH) (GERMAN AND FRENCH

ACTIVATION ANALYSIS—BIBLIOGRAPHY

DELL UNIVERSITA DI PALERMO,
ITALY.

4244 Cappadona, C.

Activation analysis. Rapid determination of gold in seawater.

Atti Accad. Sci. Lettere Arti Palermo, Pt. 1, 24, 71-74 (1963/64).

(ITALIAN) (ENGLISH AND FRENCH SUMMARIES). ISTITUTO DI APPLICAZIONI E IMPIANTI NUCLEARI DELL UNIVERSITA DI PALERMO, ITALY.

4251 Leonard, B. H.

Activation analysis nuclear reactor and spool-like element therefor.

U.S. Patent 3,274,064. September 20, 1966.

(ENGLISH). LADUE, MISSOURI.

4252 Armistead, F. C.

Radioactivity analysis of a medium utilizing a pulsed neutron source.

U.S. Patent 3,256,438. June 14, 1966.

(ENGLISH). RICHMOND, VIRGINIA.

4248 Rakovic, M., Prochazkova, Z.

Studies of the absorption curves of various mixtures of ^{24}Na - ^{42}K for controlling radiochemical purity in neutron activation analysis.

Chem. Zvesti, 20, 538-544 (1966).

(CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY FAKULTY VSEOBECNEHO LEKARSTVI KARLOVY UNIVERSITY, PRAHA, CZECHOSLOVAKIA.

4253 Smales, A. A., Mapper, D., Fouche, K. F.

The distribution of some trace elements in iron meteorites, as determined by neutron activation.

Geochim. Cosmochim. Acta, 31, No. 5, 673-720 (1967).

(ENGLISH). ANALYTICAL SCIENCES DIVISION, UKAEA, AERE, HARWELL, BERKSHIRE, ENGLAND.

4249 Galiano Sedano, J. A., Travesi Jimenez, A.

Quantitative activation analysis for traces of gold in uranium minerals.

An. Real Soc. Espan. Fis. Quim. (Madrid), Ser. B, 62, 1119-1128, (Nov. 1966).

(SPANISH) (ENGLISH SUMMARY). JUNTA DE ENERGIA NUCLEAR, DIRECCION DE QUIMICA E ISOTOPOS, SECCION DE QUIMICA ANALITICA, SECCION DE RADIOQUIMICA, MADRID, SPAIN.

4254 Ballaux, C., Dams, R., Hoste, J.
Neutron activation analysis of high purity selenium. Part I. Determination of bromine.

Anal. Chim. Acta, 37, 164-171 (Feb. 1967).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.

4255 Dixon, B. W., Slowey, J. F., Hood, D. W.

Neutron activation analysis of ruthenium in sea water.

TID-23295, Section 3, 22p.

(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

4250 Travesi, A.

Determination of neodymium by activation for control of the preparation of promethium-147.

An. Real Soc. Espan. Fis. Quim., Ser. B, 63, No. 1, 67-78 (1967).

(SPANISH) (ENGLISH SUMMARY). JUNTA DE ENERGIA NUCLEAR, DIRECCION DE QUIMICA E ISOTOPOS, MADRID, SPAIN.

4258 Yoshisaki, M. B., Penas, N. P., Sabina, A. C.

PRR-1 water analysis, Dec. 1963-Nov. 1964.

PAEC(C)RE-652, 23p. (February 1965).

(ENGLISH). PHILIPPINE ATOMIC ENERGY COMMISSION, PHILIPPINE

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ATOMIC RESEARCH CENTER, MANILA,
PHILIPPINES.

- 4260 Lepetit, H., Tousset, J.
Precision and calibration in the determination of oxygen by neutrons at 14 MeV.
Journee de Radiochimie Analytique, 39-76 (1965).
(FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE DE LYON, FRANCE.
- 4261 Bussiere, P.
Determination of fluorine in gels of silica-alumina containing lead fluoride by fast neutron radioactivation.
Journee de Radiochimie Analytique, 31-38 (1965).
(FRENCH). INSTITUT DE RECHERCHES SUR LA CATALYSE, C.N.R.S., VILLEURBANNE, RHONE, FRANCE.
- 4262 Lobanov, E. M., Abarov, U.
Radioactivation method for determining potassium in rocks using magnetic beta separator.
Izv. Akad. Nauk Uz. SSR, Ser. Fiz.-Mat. Nauk, No. 1, 77-80 (January/February 1966).
(RUSSIAN). INSTITUTE OF PHYSICS AND TECHNOLOGY, ACADEMY OF SCIENCES, UZBEK SSR, RUSSIA.
- 4263 Scott, J. E., Hoffman, C. M., Pro, M. J., Schlesinger, H. L.
Comparison of adhesive tapes by neutron activation analysis.
J. Assn. Offic. Anal. Chem., **50**, No. 2, 371-376 (1967).
(ENGLISH). POST OFFICE DEPARTMENT AND ALCOHOL AND TOBACCO TAX DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 4264 Bondy, C.
Application of various methods in activation analysis for iron and cobalt.
Anal. Chim. Acta, **38**, No. 4, 579-580 (1967).
(FRENCH). ATOME INDUSTRIEL, GRENOBLE, FRANCE.
- 4266 Smales, A. A.
Analytical chemistry, science or technology.
Proc. Soc. Anal. Chem. Conf., Nottingham, England, 1-23 (1965).
(ENGLISH). UKAEA HARWELL, ENGLAND.
- 4267 Livingston, H. D., Smith, H., Stojanovic, N.
Simultaneous estimation of copper, zinc, cadmium and mercury in biological material by neutron activation analysis.
Talanta, **14**, No. 4, 505-513 (1967).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY, GLASGOW, SCOTLAND.
- 4268 Kiesel, W.
Determination of trace elements in meteorites by activation analysis. I. Selenium, arsenic, antimony, tin, mercury, (chromium and cobalt).
Z. Anal. Chem., **227**, No. 1, 13-22 (1967).
(GERMAN) (ENGLISH SUMMARY). ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN, AUSTRIA.
- 4269 Wey, M. T.
Determination of arsenic in tobacco leaf by neutron activation analysis.
Hua Hsueh, No. 4, 121-126 (1966).
(CHINESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, TAIWAN PROVINCIAL NORMAL UNIVERSITY, TAIWAN, CHINA.
- 4270 Vajta, L., Palmay, G., Szebenyi, I., Toth, G.
Activation analysis determined by vanadium content of petroleum processed in Hungary.
Period. Polytech. Chem. Eng. (Budapest), **10**, No. 3, 269-278 (1966).
(GERMAN) LEHRSTUHL FUR CHEMISCHE TECHNOLOGIE, TECHNISCHE UNIVERSITAT BUDAPEST, HUNGARY.
- 4272 Souliotis, A. G., Belkas, E. P., Grimanis, A. P.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Determination of trace amounts of magnesium, strontium and nickel in lake-water samples by neutron-activation analysis.**
Analyst, **92**, No. 1094, 300–304 (1967).
(ENGLISH). NUCLEAR RESEARCH CENTER, DEMOCRITOS, CHEMISTRY DEPARTMENT, AGHIA PARASKEVI ATTIKIS, ATHENS, GREECE.
- 4273 Rison, M. H., Barber, W. H., Wilkniss, P. E.
Determination of trace amounts of phosphorus in a composite propellant by fast neutron activation analysis.
Anal. Chem., **39**, No. 8, 1028–1030 (1967).
(ENGLISH). RESEARCH AND DEVELOPMENT DEPARTMENT, U.S. NAVAL PROPELLANT PLANT, INDIAN HEAD, MARYLAND.
- 4274 Conrad, F. J., Kenna, B. T.
Determination of selenium by activation analysis and dry volatilization.
Anal. Chem., **39**, No. 8, 1001–1002 (1967).
(ENGLISH). ANALYTICAL METHODS DIVISION, SANDIA LABORATORY, ALBUQUERQUE, N.M.
- 4275 Tsirlin, Y. A., Gelfman, A. Y., Mokhir, E. P.
Some problems in establishing the optimum conditions for the radioactivation analysis of binary systems.
J. Anal. Chem., USSR, **21**, No. 8, 901–903 (1966).
(ENGLISH TRANSLATION). ALL-UNION SCIENTIFIC RESEARCH INSTITUTE OF MONOCRYSTALS, SCINTILLATION MATERIALS AND SPECIAL PURITY CHEMICALS, KHARKOV, RUSSIA.
- 4276 Bushkov, A. P., Prokopchik, V. I.
The activation method for determining fluorite.
Soviet Atomic Energy, **21**, 868–870 (Sept. 1966).
(ENGLISH TRANSLATION). RUSSIA.
- 4277 Dorosh, M. M., Mazyukevich, N. P., Shkoda-Ulyanov, V. A.
Analyzing the oxygen content of certain metals by recording the delayed neutrons produced in the $^{18}\text{O}(\gamma, p)^{17}\text{N}$ reaction.
Soviet Atomic Energy, **21**, 807–810 (September 1966).
(ENGLISH TRANSLATION). RUSSIA.
- 4278 Wagener, K., Ziessow, D., Zimen, K. E.
Age determination by activation analysis according to potassium-argon method and accuracy of analysis.
Z. Naturforschung, **21A**, No. 11, 1989–1992 (1966).
(GERMAN). HAHN-MEITNER INSTITUT FUR KERNFORSCHUNG BERLIN, SEKTOR KERNCHEMIE, GERMANY.
- 4280 Hollander, J. M., Perlman, I.
The semiconductor revolution in nuclear radiation counting.
Science, **154**, No. 3745, 84–93 (1966).
(ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.
- 4281 Kennington, G. S.
Activation analysis of soluble and fixed sodium in mammalian hair.
Science, **155**, No. 3672, 588–589 (1967).
(ENGLISH). DEPARTMENT OF ZOOLOGY AND PHYSIOLOGY, UNIVERSITY OF WYOMING, LARAMIE, WYOMING.
- 4282 Senftle, F. E.
Mineral exploration by in situ neutron activation.
Trans. Amer. Nucl. Soc., **9**, 593–594, (Oct.–Nov. 1966).
(ENGLISH). U.S. GEOLOGICAL SURVEY.
- 4283 Babb, A. L., Woodruff, G. L., Wilson, W. E., Henitz, P. A., Miller, W. P., Stamm, S. J.
The use of neutron activation analysis in the early diagnosis of cystic fibrosis in children.
Trans. Amer. Nucl. Soc., **9**, 591–592 (Oct.–Nov. 1966).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). UNIVERSITY OF WASHINGTON AND CHILDRENS ORTHOPEDIC HOSPITAL AND MEDICAL CENTER, SEATTLE, WASHINGTON.

ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS, AND JET PROPULSION LABORATORY, PASADENA, CALIFORNIA.

- 4284 Graber, F. M., Lukens, H. R.
A sensitive and accurate activation analysis method for the routine determination of fluorine.
Trans. Amer. Nucl. Soc., **9**, 590-591 (Oct.-Nov. 1966).
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIFORNIA.
- 4285 Jester, W. A., Klaus, E. E.
Studying the effects of trace elements of high-purity lubricants using activation analysis.
Trans. Amer. Nucl. Soc., **9**, 589-590 (Oct.-Nov. 1966).
 (ENGLISH). PENNSYLVANIA STATE UNIVERSITY, PENNSYLVANIA.
- 4286 Bryan, D. E., Guinn, V. P.
Forensic activation analysis—trace level elements in commercial paints.
Trans. Amer. Nucl. Soc., **9**, 589 (Oct.-Nov. 1966).
 (ENGLISH). GENERAL ATOMICS, SAN DIEGO, CALIFORNIA.
- 4287 Furr, A. K., Robins, C. H., Robinson, E. L.
A computer program for identification of the components of complex gamma spectra obtained in neutron activation analysis.
Trans. Amer. Nucl. Soc., **9**, 588-589 (Oct.-Nov. 1966).
 (ENGLISH). VIRGINIA POLYTECHNIC INSTITUTE, VIRGINIA.
- 4289 Turkevich, A., Knolle, K., Emmert, R. A., Anderson, W. A., Patterson, J. H., Franzgrote, E.
Instrument for lunar surface chemical analysis.
Rev. Sci. Instrum., **37**, 1681-1686, (Dec. 1966).
 (ENGLISH). ENRICO FERMI INSTITUTE FOR NUCLEAR STUDIES, UNIVERSITY OF CHICAGO, ILLINOIS,
- 4290 Tanner, J. T.
The determination of antimony in natural materials by neutron activation.
 ORO-2670-15, 141p. (September 1, 1966).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 4291 Slowey, J. F.
Studies on the distribution of copper, manganese and zinc in the ocean using neutron activation analysis.
 TID-23295, Section 2, 113p.
 (ENGLISH). USA.
- 4293 Patek, P., Sorantin, H.
Determination of impurities in red phosphorus by means of neutron activation and gamma spectroscopy.
 SGAE-CH-31/1966, 15p. (1966).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FUR CHEMIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.
- 4294 Wing, J., Wahlgren, M. A.
Detection sensitivities in nuclear activation with an isotopic neutron source (with a collection of gamma-ray spectra).
 ANL-7242, 111p. (August 1966).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 4296 Kim, Y. S., Chae, S. C.
Study on a radio paper partition chromatography of organic halogen compounds by neutron irradiation. A qualitative approach.
Ta Han Hua Hsueh Hui-Chih, **8**, No. 2, 47-56 (June 1964).
 (ENGLISH) (KOREAN SUMMARY).
 DIVISION OF CHEMISTRY, ATOMIC ENERGY RESEARCH INSTITUTE, SEOUL, KOREA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 4298 Kudo, K.
Determination of trace amounts of copper using the quantitative isotope dilution method.
Radioisotopes (Tokyo), **15**, 209–214 (1966).
 (ENGLISH) (JAPANESE SUMMARY).
 ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, TOKAI, IBARAKI, JAPAN.
- 4299 Gobrecht, H., Tausend, A., Bratter, P., Willers, G.
Determination of chlorine in selenium by neutron activation analysis.
Solid State Commun., **4**, 307–310 (June 1966).
 (ENGLISH). PHYSIKALISCHES INSTITUT DER TECHNISCHEN UNIVERSITÄT BERLIN AND HAHN-MEITNER-INSTITUT FÜR KERNFORSCHUNG BERLIN, GERMANY.
- 4300 Gobrecht, H., Tausend, A., Bratter, P., Willers, G.
Determination of sulphur and antimony in selenium by epithermal neutron activation analysis.
Solid State Commun., **4**, 311–314 (June 1966).
 (ENGLISH). PHYSIKALISCHES INSTITUT DER TECHNISCHEN UNIVERSITÄT BERLIN AND HAHN-MEITNER-INSTITUT FÜR KERNFORSCHUNG BERLIN, GERMANY.
- 4301 Bildstein, H., Auer-Welsbach, H.
A contribution to the quantitative activation analysis determination of purity of the rare earth oxides.
Monatsh. Chem., **97**, 905–910 (1966).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FÜR CHEMIE, REAKTORZENTRUM SEIBERSDORF, ÖSTERREICHISCHE STUDIENGESELLSCHAFT FÜR ATOMENERGIE, GES. M.B.H., UND DEM INSTITUT FÜR ANORGANISCHE CHEMIE DER UNIVERSITÄT WIEN, AUSTRIA.
- 4302 Osawa, M., Tokunaga, T., Itani, M., Sakanoue, M.
Neutron activation analysis of thorium in natural waters.
J. Nucl. Science Technology (Tokyo), **3**, 333–342 (August 1966).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KANAZAWA UNIVERSITY, MARUNOUCHI, KANAZAWA-SHI, ISHIKAWA-KEN, JAPAN.
- 4303 Mousty, F., Fouarge, J., Duyckaerts, G.
Determination of trace silver in high-purity zinc by neutron activation.
Anal. Chim. Acta, **36**, 478–488 (December 1966).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). LABORATOIRE DE CHIMIE NUCLEAIRE, INSTITUT DE CHIMIE ET METALLURGIE, UNIVERSITE DE LIEGE, LIEGE, BELGIUM.
- 4304 Coleman, R. F., Pierce, T. B.
Activation analysis. A review.
Analyst, **92**, 1–19 (January 1967).
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, BERKS., ENGLAND.
- 4305 Brunfelt, A. O., Steinnes, E.
Determination of selenium in standard rocks by neutron activation analysis.
Geochim. Cosmochim. Acta, **31**, 283–285 (Feb. 1967).
 (ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY AND INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORY, KJELLER, NORWAY.
- 4306 Kukula, F., Mudrova, B., Krivanek, M.
Use of thenoyltrifluoroacetone for the determination of manganese by activation analysis.
Talanta, **14**, 233–237 (February 1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAK ACADEMY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

OF SCIENCES, REZ, PRAGUE,
CZECHOSLOVAKIA.

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
KANAZAWA UNIVERSITY, KANAZAWA,
JAPAN.

4307 Chow, A., Beamish, F. E.

**An experimental evaluation of
neutron activation, wet assay and
fire assay methods of determining
gold in ores.**

Talanta, **14**, 219–231 (February
1967).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, CANADA.

4312 Beamish, F. E., Chung, K. S.,
Chow, A.

**A critical review of neutron
activation and tracer methods for
the determination of the noble
metals.**

Talanta, **14**, 1–32 (1967).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, CANADA.

4308 Lihl, F., Patek, P., Sorantin, H.

**Use of neutron activation analysis
for determination of impurities
in pure copper.**

Z. Anal. Chem., **221**, 176–186
(1966).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR CHEMIE,
REAKTORZENTRUM SEIBERSDORF,
AUSTRIA.

4314 Heydorn, K., Lukens, H. R.

**Pre-irradiation separation for the
determination of vanadium in
blood serum by reactor neutron
activation analysis.**

RISO-138, 20p. (June 1966).

(ENGLISH). THE DANISH ATOMIC
ENERGY COMMISSION, RESEARCH
ESTABLISHMENT, RISO, DENMARK AND
GENERAL ATOMIC, SAN DIEGO,
CALIFORNIA.

4309 Loepfe, E., Monnier, D., Haerdi,
W.

**Rapid isotopic separation methods
for selective detection of
short-lived radioisotopes.**

Z. Anal. Chem., **221**, 109–119
(1966).

(GERMAN) (ENGLISH SUMMARY).
LABORATOIRE DE CHIMIE ANALYTIQUE,
ÉCOLE DE CHIMIE, GENÈVE/SCHWEIZ.

4315 Fourcy, A.

**Some applications of neutron
activation analysis in plant
biology and agronomy.**

CEA-R-2967, 36p. (June 1966).

(FRENCH) (ENGLISH SUMMARY).
CENTRE D'ÉTUDES NUCLEAIRES DE
GRENOBLE, FRANCE.

4310 Alimarin, I. P., Perezogin, G. A.

**Substoichiometric separation in
activation analysis. Extraction
of coordinatively unsolvated
salts.**

Talanta, **14**, 109–119 (1967).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). V.I. VERNADSKY
INSTITUTE OF GEOCHEMISTRY AND
ANALYTICAL CHEMISTRY, ACADEMY OF
SCIENCES, MOSCOW, RUSSIA.

4316 Raaen, H. P.

**Analytical chemistry division
annual progress report for period
ending October 31, 1966.**

ORNL-4039, 168p. (January 1967).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

4311 Terada, K., Yoshimura, Y., Osaki,
S., Kiba, T.

**Determination of rhenium in
molybdenite by neutron-activation
analysis.**

Talanta, **14**, 53–60 (1967).

4317 Oak Ridge National Laboratory
**Oak Ridge National Laboratory
master analytical manual.**

TID-7015 (Suppl. 9), 148p. (March
1967).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 4318 Brune, D.
Investigations in neutron activation analysis.
Svensk Kem. Tidskr., **78**, No. 6–7, 336–348 (1966).
 (ENGLISH). AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 4319 Alian, A., Dessouky, Y. M., Shabana, R.
Tracer and radioactivation studies on tartar emetic impurities.
J. Pharm. Sci., **55**, 969–971 (Sept. 1966).
 (ENGLISH). ATOMIC ENERGY ESTABLISHMENTS, INSHAS AND FACULTY OF PHARMACY, CAIRO UNIVERSITY, CAIRO, EGYPT.
- 4320 Bowen, H. J. M.
A standard biological material for elementary analysis.
Proc. Soc. Anal. Chem. Conf., Nottingham, England, 25–31 (1965).
 (ENGLISH). CHEMISTRY DEPARTMENT, THE UNIVERSITY, READING, BERKS., ENGLAND.
- 4321 Lloyd, K. W.
The determination of tellurium in gallium arsenide and germanium by neutron activation analysis.
Proc. Soc. Anal. Chem. Conf., Nottingham, England, 180–186 (1965).
 (ENGLISH). MILLARD RESEARCH LABORATORIES, REDHILL, SURREY, ENGLAND.
- 4322 Lloyd, K. W., Millett, E. J.
The determination of rare earths in substituted yttrium iron garnets by neutron activation and gamma-ray spectrometry.
Proc. Soc. Anal. Chem. Conf., Nottingham, England, 187–197 (1965).
 (ENGLISH). MILLARD RESEARCH LABORATORIES, REDHILL, SURREY, ENGLAND.
- 4323 Samuelsson, E. G.
Determination of trace elements in milk and milk products by means of neutron activation analysis.
Radioisotopes and Radiation in Dairy Science and Technology, 221–237, Vienna, International Atomic Energy Agency (1966).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). DAIRY DEPARTMENT, ALNARP, SWEDEN.
- 4325 Sautin, A., Tousset, J.
Variation of the isotopic concentration in separated rare earths. Their activation in radioactivation analysis of these elements.
Journee de Radiochimie Analytique, 1–10 (1965).
 (FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE DE LYON, FRANCE.
- 4326 Schonfeld, E.
Alpha M—an improved computer program for determining radioisotopes by least-squares resolution of the gamma-ray spectra.
 ORNL-3975, 44p. (September 1966).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 4327 Duncan, R. N.
Stainless steel failure investigation program.
 GEAP-5150, 42p. (April 1966).
 (ENGLISH). GENERAL ELECTRIC, SAN JOSE, CALIFORNIA.
- 4328 Zuber, K.
Neutron activation analysis of Roman copper coins from 250–500 A. D. Part II.
 CNAEM-35, 38p. (May 1966).
 (ENGLISH). P.K.I., HAVA ALANI, ISTANBUL, TURKEY.
- 4329 Reynolds, L. M., Kessler, W. V., Christian, J. E., Ziemer, P. L.
Use of activation analysis in problems of drug control.
J. Pharm. Sci., **56**, No. 4, 437–443 (1967).
 (ENGLISH). BIONUCLEONICS DEPARTMENT, SCHOOL OF PHARMACY AND PHARMACAL SCIENCES, PURDUE UNIVERSITY, LAFAYETTE, INDIANA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 4347 Yon, E., Ko, W. H., Kuper, A. B.
Sodium distribution in thermal oxide on silicon by radiochemical and MOS analysis.
Trans. Electron. Devices, **13**, 276-280 (February 1966).
 (ENGLISH). CASE INSTITUTE OF TECHNOLOGY, CLEVELAND, OHIO.
- 4374 Sakamoto, A.
Manganese and hydralazine as studied by neutron activation and radioactive manganese.
Proc. Soc. Exptl. Biol. Med., **123**, No. 1, 146-148 (1966).
 (ENGLISH). VETERANS ADMINISTRATION HOSPITAL, NORTHPORT, LONG ISLAND, N.Y.
- 4376 Dunham, C. L.
Atomic energy—its present day status in medicine.
Rhode Island Medical J., **48**, 359-362, 377 (July 1965).
 (ENGLISH). ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.
- 4377 Robertson, J. S.
Computer applications in nuclear medicine.
J. Chron. Dis., **19**, 443-459 (April 1966).
 (ENGLISH). MEDICAL PHYSICS DIVISION, MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL LABORATORY, UPTON, L.I., N.Y.
- 4380 Coleman, R. F., Cripps, F. H., Stinson, A., Scott, H. D.
The trace element content of human head hair in England and Wales and the application to forensic science.
Atom, No. 123, 12-22 (January 1967).
 (ENGLISH). A.W.R.E., ALDERMASTON, ENGLAND.
- 4381 Robertson, D. E., Perkins, R. W.
Trace elements and Cs-137 in sea water by gamma-ray spectrometric techniques.
 BNWL-SA-674, 10p. (August 31, 1966).
 (ENGLISH). USA.
- 4386 Persiani, C., Spira, J., Bastian, R.
Photon-activation analysis of caesium.
Talanta, **14**, No. 5, 565-573 (1967).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). REPUBLIC AVIATION CORP., FARMINGDALE, N.Y., AND MONTEFIORE HOSPITAL, BRONX, N.Y.
- 4388 Greenland, L. P.
Determination of phosphorus in silicate rocks by neutron activation.
Geological Survey Research, **575-C**, C137-C140 (1967).
 (ENGLISH). WASHINGTON, D.C.
- 4391 Karalova, Z. K., Shibaeva, N. P., Pyzhova, Z. I.
An express method for separating ionium (Th^{230}) from sulfuric acid solutions of uranium.
J. Analytical Chemistry, USSR, **21**, 847-850 (1966).
 (ENGLISH TRANSLATION). RUSSIA.
- 4392 Nargolwalla, S. S.
A study of 14 MeV neutron-induced reactions for analysis of trace fluorides.
 Thesis. Toronto, University of Toronto, 255p. (1965).
 (ENGLISH). UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 4393 Couchoud, S.
Analysis of radioactive decay curves.
 LYCEN-6642, 58p. (September 1966).
 (FRENCH). LYON UNIVERSITY, FRANCE.
- 4394 Cahier d'Information du Bureau Eurisotop
Radioisotopes and radiations in industry and technology. Economic and technical aspects.
Cahier d'Information du Bureau Eurisotop 3, Serie Monographs 1, 96p., Brussels, Bureau Eurisotop-Euratom (1965).
 (FRENCH). BUREAU EURISOTOP - EURATOM, BRUXELLES, BELGIUM.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 4397 Jurs, P. C., Isenhour, T. L.
Binomial distribution statistics applied to minimizing activation counting errors.
Anal. Chem., **39**, No. 12, 1386–1394 (October 1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON.
- 4406 Patek, P., Sorantin, H.
Determination of trace elements in chromatographic paper by neutron activation and gamma spectrometry.
Anal. Chem., **39**, No.12, 1458–1459 (October 1967).
 (ENGLISH). INSTITUTE OF CHEMISTRY, REACTOR CENTRE, SEIBERSDORF, AUSTRIA.
- 4410 Eisner, U., Rottschafer, J. M., Berlandi, F. J., Mark, H. B.
Applications of semipermeable ion exchange membranes to trace analysis of metal ions by electrochemical and neutron activation techniques.
Anal. Chem., **39**, No. 12, 1466–1468 (1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 4411 Dahmer, L. H.
Chromatographic separations of niobium, tantalum, molybdenum, and tungsten.
 IS-T-113, 79p. (November 1966).
 (ENGLISH). IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, AMES, IOWA.
- 4412 Fishman, M. J., Robinson, B. P., Midgett, M. R.
Water analysis.
Anal. Chem., **39**, No. 5, 261R–294R (April 1967).
 (ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.
- 4413 Pasztor, L. C., Hines, C. R.
Ferrous metallurgy.
Anal. Chem., **39**, No. 5, 92R–102R (April 1967).
 (ENGLISH). JONES AND LAUGHLIN
- CORP., GRAHAM RESEARCH LABORATORY, PITTSBURGH, PA.
- 5177 Moller, E., Starfelt, N.
Microanalysis of fluorine in zircaloy by the use of the $^{19}\text{F}(\text{p},\alpha\gamma)^{16}\text{O}$ reaction.
Nucl. Instrum. Methods, **50**, 225–228 (1967).
 (ENGLISH). AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 5238 Moller, E., Nilsson, L., Starfelt, N.
Microanalysis of light elements by means of (d,n) reactions.
Nucl. Instrum. Methods, **50**, 270–276 (1967).
 (ENGLISH). AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 5261 Leimdorfer, M., Boughner, R. T.
Monte Carlo study of a method for lunar (surface) analysis based on spectroscopy of gamma rays following 14 MeV pulsed-neutron bombardment.
Nucl. Instrum. Methods, **50**, 302–308 (1967).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 5262 Amiel, S., Gilat, J., Heymann, D.
Uranium content of chondrites by thermal neutron activation and delayed neutron counting.
Geochim. Cosmochim. Acta, **31**, No.9, 1499–1503 (1967).
 (ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, SOREQ NUCLEAR RESEARCH CENTRE, YAVNE, ISRAEL AND ENRICO FERMI INSTITUTE FOR NUCLEAR STUDIES, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.
- 5295 Soroiu, M., Cerei, M.
New developments in radiogenic argon determination by neutron activation analysis.
Geochim. Cosmochim. Acta, **31**, No. 8, 1271–1279 (1967).
 (ENGLISH). INSTITUTE FOR ATOMIC PHYSICS, BUCHAREST, ROMANIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 5307 Greenland, L. P.
The abundances of selenium, tellurium, silver, palladium, cadmium, and zinc in chondritic meteorites.
Geochim. Cosmochim. Acta, **31**, 849–860 (1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIF.
- 5308 Oka, Y., Kato, T., Nagai, I.
Activation analysis of several mixed rare earth elements by means of photonuclear reaction.
Nippon Kagaku Zasshi, **88**, No. 8, 871–875 (1967).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, JAPAN.
- 5311 Oka, Y., Kato, T., Saito, T.
Activation analysis of ruthenium in osmium and in rhodium by means of photonuclear reaction.
Nippon Kagaku Zasshi, **88**, No. 8, 866–871 (1967).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, JAPAN.
- 5317 Kartashev, E. R., Nikolaenko, O. K., Danilchenko, I. D., Gambaryan, R. G., Shtan, A. S., Bobrov-Egorov, N. N.
Some criteria of the speed of neutron-activation analysis.
Soviet Atomic Energy, **22**, No. 1, 62–63 (January 1967).
 (ENGLISH TRANSLATION). RUSSIA.
- 5318 Bugorkov, S. S., Krivokhatskii, A. S., Petrzhak, K. A., Skovorodkin, N. V., Sorokina, A. V.
On the measurement of thermal-neutron fluxes and cadmium ratios from the activation of gold.
Soviet Atomic Energy, **21**, No. 6, 1215–1217 (December 1966).
 (ENGLISH TRANSLATION). RUSSIA
- 5319 Mazyukevich, N. P., Shkoda-Ulyanov, V. A.
Possibilities of the photoneutron method for determining hydrogen in heavy metals.
Soviet Atomic Energy, **21**, No. 5, 1069–1070 (November 1966).
 (ENGLISH TRANSLATION). RUSSIA.
- 5320 Lobanov, E. M., Yankovskii, A. V.
Radioactivation determination of bismuth in mineral raw material.
J. Anal. Chem., USSR, **21**, No. 12, 1264–1266 (December 1966).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES OF THE UZBSSR, TASHKENT.
- 5321 Andreev, A. V., Barit, I. Y., Musaelyan, R. M., Pronman, I. M.
Determination of oxygen in molybdenum by activation with fast neutrons.
J. Anal. Chem., USSR, **21**, No. 12, 1292–1295 (December 1966).
 (ENGLISH TRANSLATION). RUSSIA.
- 5322 Volborth, A.
Hard, soft, and ultrasoft x radiations combined with fast-neutron activation, applied to the total analysis of rocks.
Materials Science and Technology for Advanced Applications, **II**, 117–142, Golden Gate Metals Conference February 13–15, 1964, American Society of Metals, Berkeley, California (1964).
 (ENGLISH). UNIVERSITY OF NEVADA.
- 5323 Lee, N. K., Lin, S. C., Chien, J. P., Lee, Y. H.
Ore analysis for thorium and uranium by delayed neutrons.
Ho Tsu Ko Hsueh, **5**, No. 1–2, 23–28 (Dec. 1966).
 (ENGLISH) (CHINESE SUMMARY). NATIONAL TSING HUA UNIVERSITY.
- 5325 Plaksin, I. N., Malysheva, N. G., Starchik, L. P.
Use of nuclear (n, γ) reaction in determining cadmium content.
Dokl. Akad. Nauk SSSR, **171**, 393–394 (November 11, 1966).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (RUSSIAN). INSTITUTE OF MINING,
MOSCOW, RUSSIA.
- 5326 Nagy, L. G., Mester, Z., Takacs,
G.
**Neutron activation analysis of
metal trace impurities in ascorbic
acid.**
Magyar Kem. Foly., **73**, 137-138
(March 1967).
(HUNGARIAN) (ENGLISH SUMMARY).
BUDAPESTI MUSZAKI EGYETEM
FIZIKAI-KEMIAI TANSZEKE, HUNGARY.
- 5327 Tomizawa, C., Kobayashi, A.,
Shibuya, M., Koshimizu, Y., Oota,
Y.
**Studies on residue analysis of
pesticides in plant materials.**
**II. Neutron activation analysis
of mercury in rice grains.**
Shokuhin Eiseigaku Zasshi, **7**,
33-38 (February 1966).
(JAPANESE) (ENGLISH SUMMARY).
NATIONAL INSTITUTE OF
AGRICULTURAL SCIENCES,
NISHIGAHARA, KITA-KU, TOKYO AND
TOHOKU AGRICULTURAL EXPERIMENT
STATION, HANADATE, OOMAGARI,
AKITA, JAPAN.
- 5328 Nishimura, S., Hatuda, Z.,
Asayama, T.
**A trial method of determining
uranium and thorium content in
rocks by the radioactive
measurements.**
Radioisotopes (Tokyo), **16**, 156-160
(April 1967).
(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF GEOLOGICAL
SCIENCES, UNIVERSITY OF OSAKA
PREFECTURE AND GEOLOGICAL AND
MINERALOGICAL INSTITUTE,
UNIVERSITY OF KYOTO, JAPAN.
- 5330 Los Alamos Scientific Laboratory
Advanced reactor technology (ART).
LA-3708 (Pt. 1), 18p. (May 1967).
(ENGLISH). LOS ALAMOS SCIENTIFIC
LABORATORY OF THE UNIVERSITY OF
CALIFORNIA, LOS ALAMOS, NEW
MEXICO.
- 5332 Mound Laboratory
**Mound Laboratory quarterly
progress report, July-September
1966.**
MLM-1388, 35p. (September 30,
1966).
(ENGLISH). MOUND LABORATORY,
MIAMISBURG, OHIO.
- 5335 Mudrova, B., Kukula, F.
**Substoichiometric determination of
manganese in the reagents and in
the target material in ⁵²Mn
production by activation
analysis.**
Isotopenpraxis, **3**, 51-53 (February
1967).
(GERMAN). INSTITUT FÜR
KERNFORSCHUNG DER TSCHECHOSLOWAKI
SCHEN AKADEMIE DER WISSENSCHAFTEN,
REZ BEI PRAG. CZECHOSLOVAKIA.
- 5336 Artyukhin, P. I., Gilbert, E. N.,
Pronin, V. A.
**Determination of impurities in
iron by neutron activation.**
J. Anal. Chem, USSR, **22**, No. 1,
92-94 (January 1967).
(ENGLISH TRANSLATION). INSTITUTE
OF INORGANIC CHEMISTRY, ACADEMY
OF SCIENCES OF THE USSR, SIBERIAN
BRANCH, NOVOSIBIRSK.
- 5338 Cram, S. P., Brownlee, J. L.
**Automated, high speed
chromatographic separations in
the activation analysis of
short-lived isotopes.**
CONF-660611-10, *5th National
Meeting, Society for Applied
Spectroscopy, Chicago, Illinois*,
June 13-17, 1966, 23p. (1966).
(ENGLISH). DEPARTMENT OF
CHEMISTRY AND CHEMICAL
ENGINEERING, UNIVERSITY OF
ILLINOIS, URBANA, ILLINOIS.
- 5339 Burns, F. C., Priest, G. L.,
Priest, H. F.
**Activation analysis of non-uniform
samples of composition using a 14
MeV neutron generator.**
CONF-660611-9, *5th National
Meeting, Society for Applied
Spectroscopy, Chicago, Illinois*,
June 13-17, 1966, 18p. (1966).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). U.S. ARMY MATERIALS
RESEARCH AGENCY, WATERTOWN, MASS.

5341 Sterlinski, S., Dybczynski, R.

**The determination of caesium
traces in mineral salts by means
of neutron activation-ion
exchange chromatography method.**

Nukleonika, **11**, 533-553 (1966).

(ENGLISH) (POLISH AND RUSSIAN
SUMMARIES). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH, WARSZAWA,
POLAND.

5342 Headridge, J. B., Pierce, T. B.,
Anderson, D. M. W.

Analytical chemistry.

Ann. Rep. Progr. Chem., Chem. Soc.
London, **62**, 511-546 (1965).

(ENGLISH). ANALYTICAL CHEMISTRY
GROUP, AERE HARWELL, AND
D.M.W.A., DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
EDINBURGH, EDINBURGH, SCOTLAND.

5343 Schmitt, R. A.

**Abundances of trace elements Na,
Sc, Cr, Mn, Fe, Co, and Cu in
chondrules and meteorites, in
meteorites and terrestrial
matter, and U in type 1
carbonaceous chondrites.
(quarterly progress report, March
1-June 15, 1966.)**

N-66-36063, 41p. (July 15, 1966).

(ENGLISH). GENERAL ATOMIC, SAN
DIEGO, CALIF.

5344 Bianchini, A., Lanfranco, G.

**Purity control of six-nine lead by
neutron activation analysis. Part
I. Determination of gold, silver,
arsenic, germanium, antimony, tin
and bismuth.**

Chim. Ind. (Milan), **48**, No. 8,
816-823 (August 1966).

(ITALIAN). CENTRO RICERCHE
METALLURGICHE S.P.A., TORINO,
ITALY.

5345 Bianchini, A., Lanfranco, G.

**Purity control of six-nine lead by
neutron activation analysis. Part
II. Determination of copper,**

**cadmium, cobalt, iron, gallium,
indium, nickel and zinc.**

Chim. Ind. (Milan), **48**, No. 8,
823-828 (August 1966).

(ITALIAN). CENTRO RICERCHE
METALLURGICHE S.P.A., TORINO,
ITALY.

5347 Hunt, L. P.

**Neutron activation analysis of
trace rare earths in holmium
oxide.**

IS-T-120, 70p. (February 1967).

(ENGLISH). AMES LABORATORY, IOWA
STATE UNIVERSITY, AMES, IOWA.

5348 Fodor-Csanyi, P., Gallyas, M.

**Simultaneous quantitative
determination of two
gamma-radiating isotopes with a
single-channel pulse height
analyzer.**

Acta Chim. Acad. Sci. Hung., **49**,
225-241 (1966).

(ENGLISH) (GERMAN AND RUSSIAN
SUMMARIES). ELECTROCHEMISTRY
RESEARCH GROUP OF THE HUNGARIAN
ACADEMY OF SCIENCES, BUDAPEST,
HUNGARY.

5349 Dams, R., Hoste, J.

**Determination of arsenic in
antimony-iron matrices by
activation analysis.**

Acta Chim. Acad. Sci. Hung., **50**,
111-118 (1966).

(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
BELGIUM.

5350 Pink, H.

**The determination of chromium
distribution in laser-rubies with
neutron activation.**

Phys. Status Solidi, **21**, No. 2,
K111-K113 (1967).

(ENGLISH). FORSCHUNGLABORATORIUM
MUNCHEN DER SIEMENS
AKTIENGESELLSCHAFT, GERMANY.

5353 Volborth, A.

**Precise and accurate oxygen
determination by fast-neutron
activation.**

Fortschr. Mineral., **43**, 10-21

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(April 1966).

(ENGLISH). UNIVERSITY OF NEVADA,
RENO, NEVADA.

5356 Prokopchik, V. I., Subbotina, T.
I.

**Fluorite activation analysis assay
in ore samples and in ore
beneficiation products.**

Soviet Atomic Energy, **21**, No. 5,
1108–1109 (1966).

(ENGLISH TRANSLATION). RUSSIA.

5357 Rushizky, G. W., Miller, W. W.

**Activation analysis of mono- and
oligonucleotides.**

Anal. Biochem., **20**, No. 1, 181–191
(1967).

(ENGLISH). LABORATORY OF
BIOCHEMISTRY, NATIONAL CANCER
INSTITUTE, NIH, BETHESDA,
MARYLAND AND DEPARTMENT OF
CHEMISTRY, THE PENNSYLVANIA STATE
UNIVERSITY, UNIVERSITY PARK, PA.

5358 Atalla, L. T., Silva, C. M., Lima,
F. W.

**Activation analysis of arsenic in
human hair—some observations on
the problem of external
contamination.**

Anais Acad. Brasil. Cienc., **37**,
No. 3–4, 433–441 (1965).

(ENGLISH) (SPANISH SUMMARY).
INSTITUTO DE ENERGIA ATOMICA,
DIVISAO DE RADIOQUIMICA, SAO
PAULO, SP.

5359 Hogdahl, O. T.

**Distribution of the rare earth
elements in sea water.**

NATO Research Grant No. 203
Semiannual Progress Report No. 4,
October 1, 1966 to March 31,
1966, 34p., 11 Figures (April 29,
1967). 11 Figures, April 29,
1967.

(ENGLISH). OSLO, BLINDERN,
NORWAY.

5361 Yamamoto, S.

**Least squares analysis of
time-dependent gamma-ray pulse
height spectra.**

USNRDL-TR-67-3, 27p. (October 11,

1966).

(ENGLISH). U.S. NAVAL
RADIOLOGICAL DEFENSE LABORATORY,
SAN FRANCISCO, CALIF.

5362 Kernforschungsanlage, Julich, West
Germany

Report for the year 1965.

NP-16420, 192p. (1965).

(GERMAN). KERNFORSCHUNGSANLAGE
JULICH DES LANDES NORDRHEIN-WESTF
ALEN E.V., GERMANY.

5363 Gijbels, R., Hoste, J.

**The determination of traces of
iridium in rhodium by neutron
activation analysis.**

Anal. Chim. Acta, **39**, No. 1, 89–93
(1967).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.

5364 Gijbels, R., Hoste, J.

**Neutron activation analysis for
gold in osmium.**

Anal. Chim. Acta, **39**, No. 1,
132–135 (1967).

(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.

5365 Wasson, J. T.

**The chemical classification of
iron meteorites. I. A study of
iron meteorites with low
concentrations of gallium and
germanium.**

Geochim. Cosmochim. Acta, **31**,
161–180 (Feb. 1967).

(ENGLISH). DEPARTMENT OF
CHEMISTRY AND INSTITUE OF
GEOPHYSICS AND PLANETARY PHYSICS,
UNIVERSITY OF CALIFORNIA, LOS
ANGELES, CALIF.

5366 Steinnes, E.

**Determination of traces of
selenium in biological tissue by
neutron activation.**

*Intern. J. Appl. Radiation
Isotopes*, **18**, No. 10, 731–734
(1967).

(ENGLISH). INSTITUTT FOR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ATOMENERGI, ISOTOPE LABORATORIES,
KJELLER, NORWAY.

USNRDL-TR-67-46, 48p. (March 1,
1967).

- 5368 Abdel-Rassoul, A. A., Wahba, S. S.
**Purity control of uranium by
neutron activation assay—II.
Determination of manganese,
nickel and copper.**
Talanta, 14, No. 9, 1061-1067
(1967).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
DEPARTMENT, ATOMIC ENERGY
ESTABLISHMENT, CAIRO, U.A.R.
- 5369 Alian, A., Haggag, A.
**Neutron activation analysis by
standard addition and solvent
extraction. Determination of
impurities in aluminum.**
Talanta, 14, No. 9, 1109-1119
(1967).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
DEPARTMENT, ATOMIC ENERGY
ESTABLISHMENT, INSHAS, U.A.R.
- 5370 Steinnes, E.
**Instrumental activation analysis
of vegetable tissue.**
Talanta, 14, No. 7, 753-758
(1967).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). ISOTOPE LABORATORY,
INSTITUTT FOR ATOMENERGI,
KJELLER, NORWAY.
- 5372 Pierce, T. B., Peck, P. F., Cuff,
D. R. A.
**Analytical applications of a 0.5
MeV Cockcroft-Walton set based on
the measurement of prompt
gamma-radiation. Gamma-radiation
emitted during proton reactions.**
Analyst, 92, 143-150 (March 1967).
(ENGLISH). ANALYTICAL CHEMISTRY
GROUP, ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, DIDCOT,
BERKSHIRE, ENGLAND.
- 5376 Pestaner, J. F., Love, D. L.
**A computer program for identifying
and measuring components in a
mixture of gamma-emitting
radionuclides.**
- (ENGLISH). U.S. NAVAL
RADIOLOGICAL DEFENSE LABORATORY,
SAN FRANCISCO, CALIF.
- 5378 Espanol, C. E., Marafuschi, A. M.
**Application of reversed phase
column chromatography to the
determination of tungsten in
stainless steels by activation
analysis.**
J. Chromatogr., 29, No. 1, 311-315
(1967).
(ENGLISH). LABORATORIO DE
RADIOISOTOPOS, FACULTAD DE
INGENIERIA, UNIVERSIDAD DE BUENOS
AIRES, ARGENTINA.
- 5379 Oka, Y., Kato, T., Nomura, K.,
Saito, T.
**The yields of radioactivities
induced by (γ , n) reactions
with 20 MeV bremsstrahlung.**
Bull. Chem. Soc. Japan, 40,
575-579 (March 1967).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
TOHOKU UNIVERSITY, KATAHIRA-CHO,
SENDAI, JAPAN.
- 5380 Fujii, I., Muto, H.
**A direct read-out system for fast
neutron activation analysis for
oxygen in steels.**
Anal. Chim. Acta, 39, No. 3,
329-333 (1967).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). CENTRAL RESEARCH
LABORATORY, TOKYO SHIBAURA
ELECTRIC CO., LTD., KOMUKAI,
KAWASAKI, JAPAN.
- 5381 De Boeck, R., Adams, F., Hoste, J.
**Interference from natural
radioactivity in neutron
activation analysis for bismuth
in lead.**
Anal. Chim. Acta, 39, No. 2,
270-272 (1967).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 5382 Samuelsson, E. G.
Determination of trace amounts of copper in milk by neutron activation analysis.
Milchwissenschaft, **21**, 31–35, (Jan. 1966).
 (ENGLISH) (GERMAN SUMMARY).
 DAIRY DEPARTMENT, ALNARP, SWEDEN.
- 5383 D'Agostino, M. D., Kuehne, F. J.
The use of a simplified neutron activation technique for analyzing metallic wear from aircraft hydraulic systems.
Radioisotopes in Aerospace, Part I, 346–379, Dempsey, J.C. and Polishuk, P. (Eds.), New York, Plenum Press (1966).
 (ENGLISH). GRUMMAN AIRCRAFT ENGINEERING CORPORATION, BETHPAGE, N.Y.
- 5384 Waggoner, J. A., Knox, R. J.
Elemental analysis using neutron inelastic scattering.
Radioisotopes in Aerospace, Part II, 270–291, Dempsey, J.C. and Polishuk, P. (Eds.), New York, Plenum Press (1966). 270–291, 1966.
 (ENGLISH). LAWRENCE RADIATION LABORATORY, LIVERMORE, CALIF.
- 5385 Adams, F., Hoste, J.
Activation analysis of tungsten and arsenic in V_2O_5 by coincidence spectrometry.
Acta Chim. Acad. Sci. Hung., **52**, No. 2, 115–122 (1967).
 (ENGLISH). GHENT UNIVERSITY, BELGIUM.
- 5386 Asai, T., Meren, E., Iwai, M., Sato, Y., Azuma, T.
(n, γ) analysis of human blood and hair.
Ann. Rep. Radiat. Center Osaka Perfect., **6**, 111–114 (1965).
 (ENGLISH) (JAPANESE SUMMARY). JAPAN.
- 5387 Lowman, F. G.
Applications of nuclear spectroscopy.
I Conferencia de Espectroscopia Nuclear y Fisica del Estado
- Solido*, 49–52 (1964).
 (ENGLISH). PUERTO RICO NUCLEAR CENTER, MAYAGUEZ, PUERTO RICO.
- 5389 Scholes, P. H.
Fast-neutron reactors and their possible application to the activation analysis of steelworks material.
MG/D-329/65, 15p. (November 1965).
 (ENGLISH). METALLURGY DIVISION, CHEMICAL ANALYSIS COMMITTEE, SHEFFIELD, ENGLAND.
- 5390 Coleman, R. F., Cripps, F. H., Stimson, A., Scott, H. D.
The determination of trace elements in human hair by neutron activation and the application to forensic science.
AWRE-O-86, 37p. (January 1967).
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, ENGLAND.
- 5393 Katakura, Y.
Neutron activation analysis of colloidal gold in biological material. Studies on comparison between the distribution of radioactive colloidal gold ^{198}Au and that of non-radioactive colloidal gold.
Nippon Igaku Hoshasen Gakkai Zasshi, **24**, 485–492 (August 1964).
 (JAPANESE) (ENGLISH SUMMARY). THE RESEARCH INSTITUTE FOR TUBERCULOSIS, LEPROSY AND CANCER, TOHOKU UNIVERSITY, SENDAI, JAPAN.
- 5394 Scott, W. L.
Silver uptake in brains of chronically gamma-irradiated rats. A study by neutron activation analysis.
Radiation Research, **31**, No. 3, 522–528 (1967).
 (ENGLISH). TEXAS A AND M UNIVERSITY, RADIATION BIOLOGY LABORATORY, COLLEGE STATION, TEXAS.
- 5395 Shaw, D. C.
Neutron activation as a means of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- detecting phosphoryl peptides.**
Nature, **215**, No. 5099, 410–411 (1967).
 (ENGLISH). DEPARTMENT OF BIOCHEMISTRY, JOHN CURTIN SCHOOL OF MEDICAL RESEARCH, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA.
- 5397 Winchester, J. W., Duce, R. A.
The global distribution of iodine, bromine, and chlorine in marine aerosols.
Naturwissenschaften, **54**, 110–113 (March 1967).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, DEPARTMENT OF GEOLOGY AND GEOPHYSICS, CAMBRIDGE, MASS.
- 5398 Op De Beeck, J., Hoste, J.
The determination of copper and bismuth in high purity lead metal by neutron activation analysis.
Acta Chim. Acad. Sci. Hung., **53**, No. 2, 137–144 (1967).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCE, GHENT UNIVERSITY, GHENT, BELGIUM.
- 5399 Nagy, L. G.
Non-destructive and destructive neutron activation analysis of the impurities of silicon of semiconductor purity.
Acta Chim. Acad. Sci. Hung., **52**, No. 4, 365–374 (1967).
 (ENGLISH). INSTITUTE OF PHYSICAL CHEMISTRY, POLYTECHNICAL UNIVERSITY, BUDAPEST, HUNGARY.
- 5401 Coleman, R. F.
Nuclear techniques in forensic science.
J. Brit. Nucl. Energy Soc., **6**, 134–138 (April 1967).
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, ENGLAND.
- 5402 Buck, T. M., Allen, F. G., Dalton, J. V., Struthers, J. D.
Studies of sodium in SiO₂ films by neutron activation and radiotracer techniques.
- J. Electrochem. Soc.*, **114**, No. 8, 862–866 (1967).
 (ENGLISH). BELL TELEPHONE LABORATORIES, INC., MURRAY HILL, N.J.
- 5403 Daly, P. J., Hofstetter, K. J., Schmidt-Bleek, F.
Determination of copper in alloys by fast neutron activation.
J. Chem. Educ., **44**, No. 7, 412–413 (1967).
 (ENGLISH). PURDUE UNIVERSITY, LAFAYETTE, INDIANA.
- 5405 Flikke, M., Steinnes, E.
Determination of base ratios in small samples of ribonucleic acid by neutron activation paper chromatographic analysis.
Arch. Biochem. Biophys., **118**, 82–84 (Jan. 1967).
 (ENGLISH). VIRUS DEPARTMENT A, NATIONAL INSTITUTE OF PUBLIC HEALTH, GEITMYRSVEIN, OSLO AND INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 5406 Henderson, P.
The determination of phosphorus in rocks and minerals by activation analysis.
Anal. Chim. Acta, **39**, No. 4, 512–515 (1967).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, UNIVERSITY OF OXFORD, OXFORD, ENGLAND.
- 5407 Smathers, J. B., Duffey, D., Lakshmanan, S.
Survey of chromatographic papers for interfering nuclides in activation analysis.
Anal. Chim. Acta, **39**, No. 4, 529–532 (1967).
 (ENGLISH). WALTER REED ARMY INSTITUTE OF RESEARCH, WASHINGTON, D.C., AND UNIVERSTIY OF MARYLAND, COLLEGE PARK, MARYLAND.
- 5408 Armijo, J. S., Rosenbaum, H. S.
Boron detection in metals by alpha-particle tracking.
J. Appl. Phys., **38**, 2064–2069

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(April 1967).

(ENGLISH). GENERAL ELECTRIC COMPANY, VALLECITOS NUCLEAR CENTER, NUCLEONICS LABORATORY, PLEASANTON, CALIF.

5409 Gibbons, D., Olive, G., Sevier, P., Deutschman, J. E.
Determination of the oxygen content of aluminium by 14 MeV neutron radioactivation analysis.

J. Inst. Metals, **95**, No. 9, 280–283 (1967).

(ENGLISH). WANTAGE RESEARCH LABORATORY, AERE, WANTAGE, BERKS., ALUMINIUM LABORATORIES, LTD., BANBURY, OXON., ENGLAND AND ALUMINUM COMPANY OF CANADA, ARVIDA, QUEBEC, CANADA.

5410 Turkstra, J., Toerien, P. V. S., De Wet, W. J.

Determination of vanadium in sodium chloride by neutron activation analysis.

J. S. Afr. Chem. Inst., **20**, No. 2, 200–203 (1967).

(AFRIKAAN) (ENGLISH SUMMARY). AFELING CHEMIE, NASIONALE KERNNAVORSINGSENTRUM, PELINDABA, SOUTH AFRICA.

5411 Smales, A. A.

Analysis of pure materials—some general comments.

J. Mater. Sci., **1**, 302–307 (Aug. 1966).

(ENGLISH). ANALYTICAL CHEMISTRY BRANCH, AERE, HARWELL, BERKS., ENGLAND.

5414 Massachusetts Institute of Technology

Instrumentation techniques and nuclear geochemistry.

MIT-952-3, 349–403.

(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

5415 Grimanis, A. P., Souliotis, A. G.

Rapid determination of arsenic in copper and brass by neutron activation analysis.

Analyst (London), **92**, No. 1098,

549–552 (1967).

(ENGLISH). CHEMISTRY DEPARTMENT, NUCLEAR RESEARCH CENTER, DEMOCRITOS, ATHENS, GREECE.

5416 Sardi, A., Tomcsanyi, A.

Fast neutron activation analysis of silicon in sputum.

Analyst (London), **92**, No. 1097, 529–531 (1967).

(ENGLISH). CENTRAL RESEARCH INSTITUTE OF PHYSICS AND NATIONAL INSTITUTE FOR TUBERCULOSIS, BUDAPEST, HUNGARY.

5417 Holm, D. M., Sanders, W. M.

Interference reduction and sensitivity improvement in activation analysis.

Nucl. Appl., **3**, 308–313 (May 1967).

(ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.

5420 Rison, M. H., Barber, W. H., Wilkniss, P. E.

Fast neutron activation for nitrogen in explosives and propellants.

Radiochim. Acta, **7**, No. 4, 196–198 (1967).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). RESEARCH AND DEVELOPMENT DEPARTMENT, U.S. NAVAL PROPELLANT PLANT, INDIAN HEAD, MARYLAND.

5421 Girardi, F., Guzzi, G., Pauly, J.

The use of Ge(Li) detectors in activation analysis.

Radiochim. Acta, **7**, No. 4, 202–209 (1967).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.

5422 Bastian, J., Lieser, K. H.

Determination of potassium in rubidium and cesium salts by activation analysis.

Radiochim. Acta, **7**, No. 2/3, 152–153 (1967).

(GERMAN) (ENGLISH AND FRENCH

ACTIVATION ANALYSIS—ACCESSION NUMBERS

SUMMARIES). LEHRSTUHL FÜR
KERNCHEMIE DER TECHNISCHEN
HOCHSCHULE DARMSTADT, GERMANY.

- 5423 Svenke, E.
Chemical research at the Swedish Atomic Energy Company.
Svensk Kem. Tidskr., **79**, No. 2, 89–93 (1967).
(SWEDISH). AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 5424 Brune, D.
Activation analysis within technique and research.
Svensk Kem. Tidskr., **79**, No. 2, 154–157 (1967).
(SWEDISH) (ENGLISH SUMMARY). AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 5425 Iwashita, F.
Apparatus for activation analysis.
Japanese Patent 1965–21680. July 26, 1965.
(JAPANESE). JAPAN.
- 5426 Kuvik, V.
Determination of traces of metals in nuclear materials.
Chem. Listy, **61**, 149–170 (February 1967).
(CZECHOSLOVAKIAN). USTAV JADERNEHO VYZKUMU CSAV, REZ, PRAHY, CZECHOSLOVAKIA.
- 5428 Nenov, N., Popov, C., Tomov, T., Stefanov, G., Tolgyessy, J.
Nondestructive determination of arsenic in ores and rocks with high manganese concentration by neutron activation analysis.
Chem. Zvesti, **19**, 918–924 (1965).
(CZECHOSLOVAKIAN) (RUSSIAN AND GERMAN SUMMARIES). NAUCNO IZSLEDOVATELSKI GEOLOGICESKI INSTITUT PRI GLAVNO UPRAVLENIE PO GEOLOGIYA I OCHRANE NA ZEMNITE NEDRA, LABORATORJA AKTIVACIONEN ANALIZ, SOFIA, BULGARIA AND KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE SLOVENSKEJ VYSOKEJ SKOLY TECHNICKEJ, BRATISLAVA, CZECHOSLOVAKIA.
- 5429 Dragnev, T. N.
Nuclear methods for determining boron in silicon.
Compt. Rend. Acad. Bulg. Sci., **19**, 711–714 (1966).
(BULGARIAN). BULGARIA.
- 5430 Abe, S.
Photoactivation of germanium and its application to the determination of germanium in iron.
Nippon Kagaku Zasshi, **88**, 52–56 (January 1967).
(JAPANESE). JAPAN.
- 5431 Fujii, I., Muto, H.
Determination of oxygen in titanium metal by a fast neutron activation method.
Bunseki Kagaku, **15**, 856–858 (Aug. 1966).
(JAPANESE) (ENGLISH SUMMARY). CENTRAL RESEARCH LABORATORY, TOKYO SHIBAURA ELECTRIC CO., KAWASAKI-SHI, JAPAN.
- 5432 Fujii, I., Takada, K., Muto, H.
Determination of oxygen in aluminum by a fast neutron activation method.
Bunseki Kagaku, **15**, No. 11, 1239–1245 (1966).
(JAPANESE) (ENGLISH SUMMARY). TOSHIBA CENTRAL RESEARCH LABORATORY, KAWASAKI AND NIPPON LIGHT METAL RESEARCH LABORATORY, SHIZUOKA, JAPAN.
- 5433 Arnfelt, A. L., Tyden, G., Svensson, P., Osterlundh, C. G.
Chemical analysis.
Svensk Kem. Tidskr., **79**, No. 2, 146–153 (1967).
(SWEDISH) (ENGLISH SUMMARY). AVDELNINGEN FÖR REAKTORCHEMIE, AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 5434 Wainerdi, R. E., Fite, L. E.
Automatic and computer-coupled nuclear activation analysis.
Acta Chim. Acad. Sci. Hung., **50**, 33–38 (1966).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND

ACTIVATION ANALYSIS—BIBLIOGRAPHY

M UNIVERSITY, COLLEGE STATION
TEXAS.

- 5435 Vartapetyan, B. B., Dmitrovskii, A. A., Alkhazov, D. G., Lemberg, I. H., Girshin, A. B., Gusinskii, G. M., Starikova, N. A., Erofeeva, N. N., Bogdanova, I. P.

A new approach to the study of mechanism of vitamin A biosynthesis from carotene: O^{18} activation by nuclear reaction $O^{18}(\alpha, n\gamma)Ne^{21}$ using cyclotron accelerated α -particles.

Biokhimiya, **31**, No. 5, 881-886 (1966).

(ENGLISH SUMMARY). INSTITUTE OF PLANT PHYSIOLOGY, INSTITUTE OF BIOLOGICAL CHEMISTRY, ACADEMY OF SCIENCES OF THE USSR, MOSCOW AND PHYSICAL-TECHNICAL INSTITUTE, ACADEMY OF SCIENCES OF THE USSR, LENINGRAD, RUSSIA.

- 5436 Maleszewska, H.

Determination of palladium, osmium, iridium and platinum in rocks by neutron-activation analysis.

Chem. Anal. (Warsaw), **12**, No. 2, 281-291 (1967).

(POLISH) (ENGLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.

- 5437 Wang, H. C., Huang, H. M., Hsu, P. L.

Analysis of ultra-pure substances.
Hua Hsueh Tung Pao, No. 1, 1-14 (January 1965).

(CHINESE). CHINA.

- 5438 Sorantin, H., Patek, P.

Determination of impurities in red phosphorus by neutron activation and gamma spectroscopy.

Z. Anal. Chem., **229**, No. 4, 255-261 (1967).

(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR CHEMIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.

- 5439 Turkowsky, C., Stark, H., Born, H. J.

Determination of traces of uranium in rocks and minerals by neutron activation.

Radiochim. Acta, **8**, No. 1, 27-30 (1967).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR RADIOCHEMIE AN DER TECHNISCHEN HOCHSCHULE MUNCHEN, GERMANY.

- 5440 Schmidt, D.

Instrumental chemical analysis of the moon surface by unmanned landing devices.

Raumfahrtforschung, **11**, No. 1, 27-35 (January-March 1967).

(GERMAN). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT MARBURG, GERMANY UND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

- 5442 Engelmann, C.

The ultra sensitive analysis of the light elements in materials of very high purity by activation using gamma photons and charged particles.

Intern. J. Appl. Radiation Isotopes, **18**, No. 8, 569-578 (1967).

(FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). DEPARTMENT DE METALLURGIE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, SEINE-ET-OISE, FRANCE.

- 5443 Perdijon, J.

A device permitting uniform radioactivation of a single non-homogeneous sample.

Nucl. Instruments Methods, **53**, No. 2, 335-336 (1967).

(FRENCH) (ENGLISH SUMMARY). SAMES, GRENOBLE, FRANCE.

- 5444 Eychenne, M., Bayle, P., Blanc, D., Laverlochere, J., Le Strat, J.

Titration by activation of impurities present in tungsten. Examples of application to the industry of lamps.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Chim. Anal. (Paris), **49**, No. 7,
355–360 (1967).

(FRENCH) (ENGLISH SUMMARY).

CENTRE DE PHYSIQUE ATOMIQUE ET
NUCLEAIRE, FACULTE DES SCIENCES
DE TOULOUSE, SECTION
D'APPLICATIONS DES RADIOELEMENTS
DU C.E.A., CENTRE D'ETUDES
NUCLEAIRES DE GRENOBLE, AND
DIRECTEUR TECHNIQUE DE LA
COMPAGNIE DES LAMPES, FRANCE.

5445 Debiard, R., Fourcy, A., Garrec,
J. P.

**Flourine determination in
contaminated plants by 14 MeV
neutron activation.**

Compt. Rend., Ser. D, **264**, No. 23,
2668–2671 (1967).

(FRENCH). LABORATOIRE D'ANALYSES
CHIMIQUES, COLLEGE SCIENTIFIQUE
UNIVERSITAIRE, CHAMBERY, SAVOIE,
FRANCE.

5447 Dams, R., Hoste, J.

**Neutron activation of traces in
electrolytic zinc sulphate
solutions. Part I. Simultaneous
determination of mercury, uranium
and ytterbium.**

Anal. Chim. Acta, **39**, No. 4,
423–432 (1967).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.

5448 Breccia, A., Dellonte, S.,
Nucifora, G.

**Neutron activation analysis of
cobalt, zinc, chromium, scandium,
and nickel traces in Alfianello
and Albareto meteorites.**

Ric. Sci., **37**, No. 4, 319–322
(1967).

(ITALIAN). ISTITUTO CHIMICO, G.
CIAMICIAN, UNIVERSITA DI BOLOGNA
AND CENTRO NAZIONALE DI CHIMICA
DELLE RADIAZIONI E DEI
RADIOELEMENTI (NNR) SEZIONE III,
BOLOGNA, ITALY.

5449 Dumesnil, P.

**Argon activation analysis.
Application to dating by the**

potassium-argon method.

CEA-R-3100, 70p. (1967).

(FRENCH) (ENGLISH SUMMARY).

COMMISSARIAT A L'ENERGIE
ATOMIQUE, CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, FRANCE.

5450 Stoll, N., Wagner, A., Goedert, L.

**Investigations of the industrial
application possibilities of
activation analysis for the
determination of oxygen and
eventually of nitrogen and
hydrogen in steel. Part I.
Bibliographical report.**

EUR-3161.f (Vol. 1), 48p.
(November 1966).

(FRENCH). ACIERIES REUNIES DE
BURBACH-EICH-DUDELANGE S.A.,
LUXEMBOURG, BELGIUM.

5451 Stoll, N., Wagner, A., Goedert, L.

**Investigations of the industrial
application possibilities of
activation analysis for the
determination of oxygen and
eventually nitrogen and hydrogen
in steel. Part II. Description
and results of the tests.**

EUR-3161.f (Vol. 2), 69p.
(November 1966).

(FRENCH). ACIERIES REUNIES DE
BURBACH-EICH-DUDELANGE S.A.,
LUXEMBOURG, BELGIUM.

5452 Stoll, N., Wagner, A., Goedert, L.

**Investigations on the industrial
application possibilities of
activation analysis for the
determination of oxygen and
eventually of nitrogen and
hydrogen in steel. Part III.
Discussion of the tests and
conclusions to be deduced from
the investigations.**

EUR-3161.f (Vol. 3), 28p.
(November 1966).

(FRENCH). ACIERIES REUNIES DE
BURBACH-EICH-DUDELANGE S.A.,
LUXEMBOURG, BELGIUM.

5472 Akaboshi, M., Waki, A.

**Analysis of nucleic acid content
of tetrahymena by means of
induced radioactivity.**

ACTIVATION ANALYSIS — BIBLIOGRAPHY

Dobutsugaku Zasshi, **75**, 183-186
(June 1966).

(JAPANESE) (ENGLISH SUMMARY).
KYOTO UNIVERSITY, JAPAN.

5498 Mason, G. F.

**Gamma ray spectral analysis. A
selected bibliography.**

AD-643127, 26p. (September 1966).

(ENGLISH). DEFENSE ATOMIC
SUPPORT AGENCY, BETHESDA,
MARYLAND.

5499 Rausch, H., Csada, G. I., Szabo,
E.

**Determination of trace impurities
in silico chloroform by
activation analysis.**

Chem. Zvesti, **21**, No. 8, 592-601
(1967).

(GERMAN) (HUNGARIAN AND RUSSIAN
SUMMARIES). FORSCHUNGSINSTITUT
FUR FERNMELDEWESEN AND
ZENTRALFORSCHUNGSINSTITUT FUR
PHYSIK, BUDAPEST, HUNGARY.

5500 Gilbert, E. N., Artyukhin, P. I.

**The determination of trace
impurities in gallium arsenide by
radioactivation.**

Izv. Sib. Otd. Akad. Nauk SSSR,
Ser. Khim. Nauk, No. 2, 90-94
(1967).

(RUSSIAN) (ENGLISH SUMMARY).
RUSSIA.

5501 Beress, M.

**The application of neutron
activation analysis for the
investigation of rocks of
manganese content.**

Geofiz. Kozlem., **15**, 181-194
(1966).

(HUNGARIAN) (RUSSIAN AND ENGLISH
SUMMARIES). MAGYAR ALLAMI EOTVOS
LORAND GEOFIZIKAI INTEZET,
HUNGARY.

5502 Thomas, C. C., Tercho, G. P.,
Sondel, J. A.

**Neutron activation analysis of
blood and blood serum for copper
and zinc.**

Nucl. Appl., **3**, 53-57 (Jan. 1967).

(ENGLISH). WESTERN NEW YORK

NUCLEAR RESEARCH CENTER, BUFFALO,
N.Y.

5510 Jester, W. A., Klaus, E. E.

**Activation analysis of high-purity
lubricants for trace elements.**

Nucl. Appl., **3**, 375-382 (June
1967).

(ENGLISH). COLLEGE OF
ENGINEERING, THE PENNSYLVANIA
STATE UNIVERSITY, UNIVERSITY
PARK, PA.

5513 Piskunov, L. I.

**Quantitative analysis of the
two-component mixture of
radionuclides.**

Radiokhimiya, **9**, 266-268 (1967).

(RUSSIAN). RUSSIA.

5515 Onosov, A. I., Perovskii, A. P.

**Determination of hafnium
concentration in zirconium. I.**

Radiokhimiya, **9**, 269-271 (1967).

(RUSSIAN). RUSSIA.

5517 Onosov, A. I., Perovskii, A. P.

**Determination of hafnium
concentration in zirconium. II.**

Radiokhimiya, **9**, 271-273 (1967).

(RUSSIAN). RUSSIA.

5520 Boivin, M., Cauchois, Y., Heno, Y.

**Research on nuclear photoactivation
by x-rays.**

EUR-3298.f, 36p. (April 1967).

(FRENCH). FACULTE DES SCIENCES
DE PARIS, FRANCE.

5522 Potzl, K., Carnuth, W.

**Isolation and identification of
atmospheric ⁷Be.**

Radiochim. Acta, **6**, 133-135
(December 1966).

(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). PHYSIKALISCH-BIOKLIM
ATISCHE FORSCHUNGSSTELLE DER
FRAUNHOFER-GESELLSCHAFT ZUR
FORDERUNG DER ANGEWANDTEN
FORSCHUNG, GARMISCH-PARTENKIR-
CHEN, GERMANY.

5526 National Academy of Sciences-National
Research Council

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Characterization of materials.**
MAB-229-M, 517p. (March 1967).
(ENGLISH). NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF ENGINEERING, WASHINGTON, D.C.
- 5527 Division of Isotopes Development
Isotope systems development program.
CONF-661203, 89p. (Dec. 1966).
(ENGLISH). DIVISION OF ISOTOPES DEVELOPMENT, U.S. ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.
- 5543 Wolicki, E. A., Knudson, A. R.
A nuclear detection method for sulfur in thin films.
Intern. J. Appl. Radiation Isotopes, **18**, 429-433 (1967).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). U.S. NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.
- 5546 Mundschenk, H.
Determination of energy and intensity of complex photopeaks.
Intern. J. Appl. Radiation Isotopes, **18**, 365-381 (1967).
(GERMAN) (ENGLISH, FRENCH AND RUSSIAN SUMMARIES). INSTITUT FÜR ANORG. CHEMIE UND KERNCHEMIE DER UNIVERSITÄT MAINZ, GERMANY.
- 5547 Bishop, M., Fletcher, K. E.
Isotope identification by autoradiography.
Intern. J. Appl. Radiation Isotopes, **18**, 465-471 (1967).
(ENGLISH) (RUSSIAN, FRENCH AND GERMAN SUMMARIES). RESEARCH LABORATORIES OF THE BRITISH ALUMINIUM CO. LTD., GERRARDS CROSS, BUCKS, ENGLAND.
- 5551 Juliano, J. O., Juliano, P. O.
Activation analysis of Philippine uranium ores by delayed neutron counting.
Philippines Nucl. J., **1**, No. 1, 9-16 (July 1966).
(ENGLISH). PHILIPPINE ATOMIC RESEARCH CENTER.
- 5552 Tittle, C. W.
Applications of radioisotope instruments in geophysics.
STI-PUB-112, Vol. 2, 3-13 (1966).
(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). SOUTHERN METHODIST UNIVERSITY, DALLAS, TEXAS.
- 5554 Kozhevnikov, D. A.
Theoretical investigations in nuclear geophysics in the USSR.
STI-PUB-112, Vol. 2, 43-68 (1966).
(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.
- 5555 Yakubson, K. I., Eife, K.
Use of neutron-induced gamma-radiation spectrometry to investigate the elemental composition of rocks in boreholes.
STI-PUB-112, Vol. 2, 159-186 (1966).
(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.
- 5566 Kusaka, Y., Tsuji, H., Egawa, M.
Rapid analysis of boron in glass by prompt gamma-ray measurement.
Nippon Kagaku Zasshi, **88**, 1006-1008 (September 1967).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, HIGASHINADA-KU, KOBE-SHI, JAPAN.
- 5571 Dieckert, J. W., Derrick, K. S., Davis, R. C., Singh, J.
The determination of potassium and manganese in plant tissues by neutron activation analysis.
STI-PUB-137, 81-93.
(ENGLISH). DEPARTMENT OF BIOCHEMISTRY AND NUTRITION, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 5577 Blyumentsev, A. M., Feldman, I. I., Nedostup, G. A., Zheltikov, A. N.
Neutron radiative capture gamma spectrometry as a method of determining the composition of iron-bearing rocks and ores.
STI-PUB-112, Vol. 2, 187-202

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(1966).

(RUSSIAN) (ENGLISH, FRENCH AND SPANISH SUMMARIES). RUSSIA.

5578 Martin, T. C., Hall, J. D.,
Morgan, I. L.

On-line nuclear analysis system.
STI-PUB-112, Vol. I, 411-423
(1966).

(ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.

5579 Tousset, J., Condamin, J., Picon,
M.

Method of analysis by activation with fast neutrons of antique money.

LYCEN/6726, 11p. (April 1967).

(FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON AND FACULTE LIBRE DES SCIENCES DE LYON, FRANCE.

5580 Chevarier, N., Giroux, J., Duc, T.
M., Tousset, J.

Activation analysis with charged particles.

Bull. Soc. Chim. Fr., No. 8,
2893-2898 (1967).

(FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON, FRANCE.

5581 Lobanov, E. M., Aripov, G.

Determination of chromium and some other elements by analysis of the γ spectra from the (n, γ) reaction.

Izv. Akad. Nauk Uz. SSR, Ser. Fiz.-Mat. Nauk, No. 6, 64-67
(Nov.-Dec. 1965).

(RUSSIAN). RUSSIA.

5583 Guzzi, G., Pauly, J., Girardi, G.,
Dorpema, B.

Computer program for activation analysis with germanium lithium drifted detectors.

EUR-3469.E, 40p. (May 1967).

(ENGLISH). JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.

5587 Gunnink, R., Levy, H. B., Niday,
J. B.

Identification and determination of gamma emitters by computer analysis of Ge(Li) spectra.

UCID-15140, 23p. (May 16, 1967).

(ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.

5591 Herpers, U., Herr, W., Wolfle, R.

Determination of cosmic-ray produced nuclides ^{53}Mn , ^{45}Sc and ^{26}Al in meteorites by neutron activation and gamma coincidence spectroscopy.

Radioactive Dating and Methods of Low-Level Counting, 199-205,
Vienna, International Atomic Energy Agency (1967).

(ENGLISH). INSTITUTE OF NUCLEAR CHEMISTRY, UNIVERSITY OF COLOGNE AND INSTITUTE FOR RADIOCHEMISTRY, NUCLEAR RESEARCH CENTRE, JULICH, GERMANY.

5592 Herr, W., Wolfle, R., Eberhardt,
P., Kopp, E.

Development and recent applications of the Re/Os dating method.

Radioactive Dating and Methods of Low-Level Counting, 499-508,
Vienna, International Atomic Energy Agency (1967).

(ENGLISH). COLOGNE UNIVERSITY, GERMANY AND UNIVERSITY OF BERNE, SWITZERLAND.

5593 Auboin, G., Dugain, F.,
Laverlochere, J.

A few applications of neutron activation analysis of beryllium.

Conference Internationale sur la Metallurgie du Beryllium, Grenoble, 17-20 May 1965, 15p.
(1965).

(FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE AND COMPAGNIE PECHINEY, VOREPPE, FRANCE.

5594 Crumpton, D.

The effect of source to target geometry in neutron activation.

Nucl. Instruments Methods, 55, No.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

1, 198–200 (1967).

(ENGLISH). UNIVERSITY OF ASTON,
BIRMINGHAM, ENGLAND.

853–855 (1967).

(RUSSIAN). INSTITUTE OF
INORGANIC CHEMISTRY, NOVOSIBIRSK,
RUSSIA.

5596 Comar, D.

**Activation analysis as a tool for
medical research.**

Nucleonics, 24, No. 11, 54–57

(Nov. 1966).

(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, SERVICE
HOSPITALIER FREDERIC JOLIOT,
ORSAY, FRANCE.

5620 Plaksin, I. N., Starchik, L. P.,
Tustanovskii, V. T.

**Activation analysis with the use
of the matrix method.**

Dokl. Akad. Nauk SSSR, 172, No. 1,
104–106 (1967).

(RUSSIAN). RUSSIA.

5602 Rakovic, M., Prouza, Z.

**Problems of change in neutron flux
in a sample in activation
analysis.**

Chem. Listy, 60, No. 11, 1496–1508
(1966).

(CZECHOSLOVAKIAN). KATEDRA
LEKARSKE FYSIKY A NUKLEARNI
MEDICINY, FAKULTA VSEOBECNEHO
LEKARSTVI, UNIVERSITA KARLOVA,
PRAHA A VETERINARNI VYZKUMNE
STREDISKO, PRAHA, CZECHOSLOVAKIA.

5621 Azimov, S. A., Masagutov, V. S.,

Kasymov, A. K., Khakimov, M.

**Gamma activation method for
determination of carbon
concentration in coal.**

Dokl. Akad. Nauk Uz. Ssr, 23, No.
2, 24–27 (1966).

(RUSSIAN). RUSSIA.

5610 Parker, C. V.

**The nuclear analysis facility of
Texas Nuclear Corporation.**

Isotopes Radiation Technology, 4,
No. 2, 117–119 (Winter
1966–1967).

(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.

5626 Chupeev, N. E., Dukenbaeva, A. B.

**Neutron activation analysis and
its application to medical
research.**

Gig. Sanit., 32, No. 1, 76–81
(January 1967).

(RUSSIAN). CENTRAL INSTITUTE FOR
THE PROFESSIONAL DEVELOPMENT OF
PHYSICIANS, MOSCOW, RUSSIA.

5618 Rakovic, M.

**Nondestructive neutron activation
analysis without using gamma
spectrometry.**

Chem. Listy, 61, 709–717 (June
1967).

(CZECHOSLOVAKIAN). KATEDRA
LEKARSKE FYSIKY A NUKLEARNI
MEDICINY, FAKULTA VSEOBECNEHO
LEKARSTVI KU, PRAHA,
CZECHOSLOVAKIA.

5648 Taylor, K. J.

**Industrial applications of
radioisotopes.**

Rep. Progr. Appl. Chem., 50,
131–143 (1965).

(ENGLISH). ISOTOPE RESEARCH
DIVISION, WANTAGE RESEARCH
LABORATORY, AERE, ENGLAND.

5619 Gilbert, E. N., Pronin, V. A.,

Artyukhin, P. I., Nikolaev, A. V.

**Activation determination of
impurities in trichloromethylsil
ane with extractional separation
of the elements.**

Dokl. Akad. Nauk SSSR, 172, No. 4,

5694 Lukens, H. R.

**Activation analysis at General
Atomic.**

Isotopes Radiation Technology, 4,
No. 2, 119–124 (Winter
1966–1967).

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.

5697 Zmijewska, W., Minczewski, J.

**Determination of some components
of the soil solution by ion**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- exchange chromatography—neutron activation method.
Chem. Anal. (Warsaw), **12**, No. 4, 675–681 (1967).
(ENGLISH) (POLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.
- 5698 Menapace, L. M.
Use of metastable states in activation analysis.
IS–T–196, Thesis, 37p. (August 1967).
(ENGLISH). AMES LABORATORY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 5699 Hahn, P. B.
Activation analysis for trace quantities of iodine in biological materials.
IS–T–190, Thesis, 43p. (August 1967).
(ENGLISH). AMES LABORATORY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 5701 Comar, D., Chevallier, F.
Concentration of vanadium in rats and its effect on cholesterol synthesis. Studies with neutron activation and isotope equilibration.
Bull. Soc. Chim. Biol., **49**, No. 10, 1357–1367 (1967).
(FRENCH) (ENGLISH AND GERMAN SUMMARIES). DEPARTEMENT DE BIOLOGIE, COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES, SACLAY, FRANCE.
- 5703 Artyukhin, P. I., Gilbert, E. N., Pronin, V. A.
Radioactivation determination of impurities in gallium arsenide.
Radiokhimiya, **9**, No. 3, 341–346 (1967).
(RUSSIAN). RUSSIA.
- 5704 Rimskii–Korsakov, A. A., Smirnov, A. A., Smirnov, V. V., Chubarov, M. N.
Determination of gold content in silver by activation analysis method.
Radiokhimiya, **9**, No. 3, 388–389 (1967).
(RUSSIAN). RUSSIA.
- 5705 Babaev, A., Abbosov, O., Lobanov, E. M., Nurmatov, D., Umarov, M.
Determination of rare earth elements in minerals by a radiochemical variation of activation analysis.
Dokl. Akad. Nauk Tadzh. SSR, **10**, No. 2, 14–17 (1967).
(RUSSIAN). RUSSIA.
- 5706 Dutov, A. G., Lobanov, E. M.
Determination of impurities in ferrite garnets and yttrium oxide by activation analysis.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.–Mat. Nauk, **11**, No. 1, 82–83 (1967).
(RUSSIAN). INSTITUTE YAD. FIZ., TASHKENT, RUSSIA.
- 5707 Abbosov, O., Babaev, A., Lobanov, E. M., Nurmatov, D., Umarov, U.
Use of the radioactivation analysis for determination of rare earth elements in davidite and euxenite minerals.
Dokl. Akad. Nauk Tadzh. SSR, **10**, No. 1, 13–17 (1967).
(RUSSIAN). RUSSIA.
- 5708 Perdijon, J.
Oxygen determination in steel by activation analysis. A rapid non-destructive method.
Atomwirtschaft, **12**, 131–133 (March 1967).
(GERMAN). INGENIEUR CIVIL DES MINES, GRENOBLE, FRANCE.
- 5709 Mott, W. E., Rotariu, G. J.
The AEC's program in industrial applications of radiation and radioisotopes.
Isotopes Radiation Technology, **4**, No. 4, 317–320 (Summer 1967).
(ENGLISH). DIVISION OF ISOTOPES DEVELOPMENT, U.S. ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 5710 Lyon, W. S., Miller, F. J.
Forensic applications of neutron activation analysis.
Isotopes Radiation Technology, **4**, No. 4, 325–340 (Summer 1967).
 (ENGLISH). USA.
- 5711 Dyer, F. F., Bate, L. C., Strain, J. E.
Three-dimensionally rotating sample holder for 14-million electron volt neutron irradiations.
Anal. Chem., **39**, 1907–1909 (December 1967).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 5712 Csajka, M.
Application of isotopic exchange for the determination of tin in nickel.
Talanta, **14**, 1360–1362 (November 1967).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 5713 Johansen, O., Steinnes, E.
Precision analysis of manganese in rocks by neutron activation analysis.
Anal. Chim. Acta, **40**, No. 2, 201–205 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.
- 5714 Oldham, G., Darrall, K. G.
The determination of bromine in the presence of fluorine and positron emitters using fast neutron activation analysis.
Anal. Chim. Acta, **40**, No. 2, 330–333 (1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, LOUGHBOROUGH, LEICESTER, ENGLAND.
- 5716 Clark, R. S., Rowe, M. W., Ganapathy, R., Kuroda, P. K.
Iodine, uranium and tellurium contents in meteorites.
Geochim. Cosmochim. Acta, **31**, 1605–1613 (October 1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ARKANSAS, FAYETTEVILLE, ARKANSAS.
- 5717 Crocket, J. H., Keays, R. R., Hsieh, S.
Precious metal abundances in some carbonaceous and enstatite chondrites.
Geochim. Cosmochim. Acta, **31**, 1615–1623 (October 1967).
 (ENGLISH). DEPARTMENT OF GEOLOGY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 5718 Goles, G. G., Greenland, L. P., Jerome, D. Y.
Abundances of chlorine, bromine, and iodine in meteorites.
Geochim. Cosmochim. Acta, **31**, 1771–1787 (October 1967).
 (ENGLISH). DEPARTMENTS OF CHEMISTRY AND EARTH SCIENCES, UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIF.
- 5719 Morgan, J. W., Lovering, J. F.
Rhenium and osmium abundances in chondritic meteorites.
Geochim. Cosmochim. Acta, **31**, 1893–1909 (October 1967).
 (ENGLISH). DEPARTMENT OF GEOPHYSICS AND GEOCHEMISTRY, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA.
- 5720 Schmitt, R. A., Smith, R. H., Ehmann, W. D., Mc Kown, D.
Silicon abundances in meteoritic chondrules.
Geochim. Cosmochim. Acta, **31**, 1975–1985 (October 1967).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF., OREGON STATE UNIVERSITY, CORVALLIS, OREGON, AND UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 5721 Berkey, E., Fisher, D. E.
The abundance and distribution of chlorine in iron meteorites.
 NYO-2794-14, 48p. (February 3,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 1967).
(ENGLISH). DEPARTMENT OF
ENGINEERING PHYSICS, CORNELL
UNIVERSITY, ITHACA, N.Y.
- 5725 Shibuya, M.
**Application of radioisotopes for
analysis. V. Neutron activation
analysis of agricultural samples.**
Nippon Dojo Hiriyogaku Zasshi, **37**,
126–139 (January 1966).
(JAPANESE). NATIONAL INSTITUTE
OF AGRICULTURAL SCIENCE, TOKYO,
JAPAN.
- 5726 Furuhashi, N., Uemura, T.
**Quantitative activation analysis
of the impurities in a culture
pearl.**
*Osaka Furitsu Kogyo-Shoreikan
Hokoku*, No. 39, 46–49 (July
1966).
(JAPANESE) (ENGLISH SUMMARY).
INDUSTRIAL RESEARCH INSTITUTE OF
OSAKA PREFECTURE, JAPAN.
- 5727 Dubinskaya, N. A., Tsirkunova, I.
E.
**Neutron activation analysis of Al
in the human hair.**
*Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser.*, No. 4,
3–10 (1967).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUTE OF PHYSICS, RIGA,
RUSSIA.
- 5728 Alian, A., Shabana, R.
**Neutron activation analysis by
standard addition and solvent
extraction. Determination of
impurities in thorium and iron.**
Talanta, **15**, No. 2, 257–261
(1968).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). NUCLEAR CHEMISTRY
DEPARTMENT, ANALYTICAL DIVISION,
ATOMIC ENERGY ESTABLISHMENT,
CAIRO, U.A.R.
- 5729 Alian, A., Shabana, R., Sanad, W.,
Allam, B., Khalifa, K.
**Neutron activation analysis by
standard addition and solvent
extraction. Determination of**
traces of antimony.
Talanta, **15**, No. 2, 262–266
(1968).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). ATOMIC ENERGY
ESTABLISHMENT, NATIONAL CENTRE OF
SOCIAL AND CRIMINOLOGICAL
RESEARCH AND CAIRO UNIVERSITY,
CAIRO, U.A.R.
- 5730 Ballaux, C., Dams, R., Hoste, J.
**Neutron activation analysis of
high purity selenium.
Determination of tellurium.**
Anal. Chim. Acta, **41**, No. 2,
147–154 (1968).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 5731 Brunfelt, A. O., Steinnes, E.
**The determination of phosphorus in
rocks by neutron activation.**
Anal. Chim. Acta, **41**, No. 2,
155–158 (1968).
(ENGLISH). UNIVERSITY OF OSLO,
OSLO AND INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.
- 5732 Wechter, M. A., Voigt, A. F.
**Determination of lanthanum,
holmium, and uranium in their
tungsten bronzes by thermal
neutron activation.**
Anal. Chim. Acta, **41**, No. 2,
181–184 (1968).
(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH, DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.
- 5733 Lombard, S. M., Isenhour, T. L.,
Heintz, P. H., Woodruff, G. L.,
Wilson, W. E.
**Neutron capture gamma ray
activation analysis. Design of
apparatus for trace analysis.**
*Intern. J. Appl. Radiation
Isotopes*, **19**, No. 1, 15–22
(1968).
(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). DEPARTMENTS
OF CHEMISTRY AND NUCLEAR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ENGINEERING, UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON.

INSTITUTE, WASHINGTON, D.C., AND
UNIVERSITY OF MARYLAND, COLLEGE
PARK, MARYLAND.

5735 Terrani, M., Terrani, S.

**Quantitative analysis of fissile
materials by delayed neutron
emission.**

Energ. Nucl. (Milan), **14**, 638–642
(November 1967).

(ENGLISH) (ITALIAN SUMMARY).
CESNEF, POLITECNICO DI MILANO,
ITALY.

5744 Campbell, W. W., Robinson, E. L.,
Furr, A. K.

**A generalized computer library for
neutron activation analysis.**

Trans. Amer. Nucl. Soc., **10**, 450
(November 1967).

(ENGLISH). VIRGINIA POLYTECHNIC
INSTITUTE.

5739 Vincent, H. A., Volborth, A.

**High-precision determination of
silicon in rocks by fast-neutron
activation analysis.**

Nucl. Appl., **3**, 753–757 (December
1967).

(ENGLISH). NEVADA MINING
ANALYTICAL LABORATORY, MACKAY
SCHOOL OF MINES, UNIVERSITY OF
NEVADA, RENO, NEVADA.

5745 Himes, D., Post, R. G., Wacks, M.
E.

**Complete computer analysis of
numbered gamma-ray spectra.**

Trans. Amer. Nucl. Soc., **10**,
449–450 (November 1967).

(ENGLISH). UNIVERSITY OF
ARIZONA.

5740 Korthoven, P. J. M., Wechter, M.
A., Voigt, A. F.

**Determination of gadolinium and
europium in their tungsten
bronzes by high energy photon
activation and computer
resolution of gamma-ray spectra.**

Anal. Chem., **39**, 1594–1598
(November 1967).

(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.

5746 Babb, A. L., Miller, W. P.,
Wilson, W. E., Woodruff, G. L.,
Novotny, A. J.

**Neutron activation analysis of
stable dysprosium biologically
deposited in the bone of chinook
salmon fingerlings.**

Trans. Amer. Nucl. Soc., **10**, 449
(November 1967).

(ENGLISH). UNIVERSITY OF
WASHINGTON AND U.S. BUREAU
COMMERCIAL FISHERIES.

5742 Aspinall, A., Slater, D. N.,
Mayes, P.

**Neutron activation analysis of
medieval ceramics.**

Nature, **217**, No. 5126, 388 (1968).

(ENGLISH). SCHOOL OF NUCLEAR
PHYSICS, UNIVERSITY OF BRADFORD
AND EXTRAMURAL DEPARTMENT,
UNIVERSITY OF LEEDS, ENGLAND.

5747 Cheng, F. C., Lakshmanan, S.,
Duffey, D.

**Derivative neutron activation
analysis of ferrous and ferric
iron.**

Trans. Amer. Nucl. Soc., **10**,
448–449 (November 1967).

(ENGLISH). A-C, MARYLAND AND
UNIVERSITY OF MARYLAND.

5743 Smathers, J. B., Lakshmanan, S.,
Duffey, D.

**Derivative activation analysis of
magnesium.**

Trans. Amer. Nucl. Soc., **10**, 448
(November 1967).

(ENGLISH). WALTER REED

5748 Wood, D. E.

**A liquid-loop activation analysis
system.**

Trans. Amer. Nucl. Soc., **10**, 451
(November 1967).

(ENGLISH). KAMAN NUCLEAR.

5749 Kobayashi, M.

Survey of flow and contamination

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- of river by activation analysis of non-radioactive tracer.**
Genshiryoku Kogyo, **12**, No. 10, 39–43 (October 1966).
(JAPANESE). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 5750 Krishnan, S. S.
Determination of gunshot firing distances and identification of bullet holes by neutron activation analysis.
J. Forensic Sci. Soc., **12**, 112–122 (January 1967).
(ENGLISH). THE CENTRE OF FORENSIC SCIENCES, TORONTO, ONTARIO, CANADA.
- 5751 Skinner, W. A., Leafer, M. A., Parkhurst, R. M.
Investigation of the use of derivative neutron activation analysis for drug assay.
J. Pharm. Sci., **57**, No. 2, 338–340 (1968).
(ENGLISH). STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIF.
- 5752 Holm, D. M., Briscoe, W. L., Parker, J. L., Sanders, W. M.
Determination of oxygen in germanium by ^3He activation.
LA-DC-8866, 10p. (1967).
(ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 5753 Kudo, K.
Radioactivation analysis of zinc based on the quantitative isotope dilution principle.
Radioisotopes (Tokyo), **16**, 199–203 (May 1967).
(ENGLISH) (JAPANESE SUMMARY). ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, TOKAI, IBARAKI, JAPAN.
- 5755 Arneil, G. C.
Studies in strontium metabolism. 3. Preferential calcium–strontium renal tubular absorption measured by activation analysis.
Strontium Metabolism, 67–70, Lenihan, J.M.A., Loutit, J.F. and Martin, J.H. (Eds.), London, Academic Press (1967).
(ENGLISH). DEPARTMENT OF CHILD HEALTH, ROYAL HOSPITAL FOR SICK CHILDREN, OAKBANK, GLASGOW, SCOTLAND.
- 5756 Pick, M. A., Dyer, N. C., Brill, A. B., Sastry, B. V. R.
Analysis of acetylcholine in biological samples by neutron activation analysis.
CONF-671027-4, 6p.
(ENGLISH). VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE.
- 5757 Mathur, S. C., Oldham, G.
Interferences encountered in 14 MeV neutron activation analysis.
Nucl. Energy, 136–141 (September–October 1967).
(ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, ENGLAND.
- 5759 Chaika, M., Sabo, E., Lavrukhina, A. K.
Instrumental method of activation determination of macrocomponent content in meteorites according to short-lived isotopes.
Geokhimiya, No. 9, 1106–1116 (1967).
(RUSSIAN) (ENGLISH SUMMARY). CENTRAL INSTITUTE OF PHYSICS OF THE HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY AND V.I. VERNADSKY INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, USSR ACADEMY OF SCIENCES, MOSCOW, RUSSIA.
- 5760 Samsahl, K.
Automated neutron activation analysis of biological material with high radiation levels.
Analyst (London), **93**, No. 1103, 101–106 (1968).
(ENGLISH). AB ATOMENERGI, NYKOPING, SWEDEN.
- 5761 De Lange, P. W., De Wet, W. J., Turkstra, J., Venter, J. H.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Non-destructive neutron activation analysis of small samples of Witwatersrand ore for gold.

Anal. Chem., **40**, No. 2, 451-454 (1968).

(ENGLISH). ATOMIC ENERGY BOARD, PELINDABA, PRETORIA, SOUTH AFRICA.

CALIFORNIA, LAWRENCE RADIATION LABORATORY, BERKELEY, CALIF.

5769 Holm, D. M., Briscoe, W. L., Parker, J. L., Sanders, W. M., Parker, S. H.

The determination of oxygen and carbon in germanium by ^3He activation.

LA-DC-8994, 31p. (1967).

(ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.

5764 Rhodes, J. R.

Applications of neutron activation to on-stream analysis.

ORO-2980-17, 31p. (October 26, 1967).

(ENGLISH). TEXAS NUCLEAR, AUSTIN, TEXAS.

5770 De Carvalho, A. M. B.

Neutron activation analysis of copper compounds.

LFEN-NI-26A, 148p. (1965).

(PORTUGUESE). LABORATORIO DE FISICA E ENGENHARIA NUCLEARES, JUNTA DE ENERGIA NUCLEAR, SAVACEM, PORTUGAL.

5765 Beliard, L., Janot, P.

The determination by irradiation with a pulsed neutron generator and delayed neutron counting of the amount of fissile material present in a sample.

CEA-R-3272, 91p. (July 1967).

(FRENCH) (ENGLISH SUMMARY). COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES, SACLAY, FRANCE.

5771 Landstrom, O., Samsahl, K., Wenner, C. G.

An investigation of trace elements in marine and lacustrine deposits by means of a neutron activation method.

AE-296, 40p. (October 1967).

(ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.

5766 Moauro, A.

Determination of ^{54}Mn and iron in long irradiated steel samples.

Application of a lithium-drifted germanium detector.

RT/CHI(67)-16, 16p. (1967).

(ENGLISH). COMITATO NAZIONALE ENERGIE NUCLEARE, ROME, ITALY.

5772 Hoste, J., De Soete, D., Speecke, A.

The determination of oxygen in metals by 14 MeV neutron activation analysis.

EUR-3565e, 72p. (June 23, 1967).

(ENGLISH). UNIVERSITY OF GHENT, GHENT, BELGIUM.

5767 Nystrom, A.

Eastern translations of radioactive geophysics prospecting literature.

FTB-5 (Bibl.), 17p. (November 1967).

(ENGLISH). AKTIEBOLAGET ATOMENERGI, STUDSVIK, SWEDEN.

5773 Mc Kibben, J. M.

Use of reaction gammas for analysis of impurities in alpha emitters.

DPSPU-66-30-12, 21p. (November 1966).

(ENGLISH). SAVANNAH RIVER PLANT, E.I. DU PONT DE NEMOURS AND COMPANY, AIKEN, S.C.

5768 Lamb, J. F., Lee, D. M.,

Markowitz, S. S.

Simultaneous determination of O^{18} and O^{16} isotopes by He^3 activation analysis.

UCRL-17812, 11p. (October 1967).

(ENGLISH). UNIVERSITY OF

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 5774 Karlicek, V., Kott, J.
Trace elements and neutron activation analysis in biology and medicine.
Cas. Lek. Cesk., **106**, 166–167 (February 19, 1967).
 (CZECHOSLOVAKIAN). CLINIC OF INTERNAL DISEASES, PLZEN, CZECHOSLOVAKIA.
- 5775 Lieberman, K. W., Ehmann, W. D.
Determination of bromine in stony meteorites by neutron activation.
J. Geophysical Research, **72**, No. 24, 6279–6287 (December 15, 1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 5776 Shigematsu, T., Fujino, O., Honjo, T.
Non-destructive determination of silicon (silica) in marine sediments by fast neutron activation.
Bull. Inst. Chem. Res., Kyoto Univ., **45**, No. 4–5, 299–306 (1967).
 (ENGLISH). SHIGEMATSU LABORATORY, JAPAN.
- 5777 Shigematsu, T., Tabushi, M., Aoki, T., Fujino, O., Nishikawa, Y., Goda, S.
Activation analysis of lanthanum and europium in sea water and lake water.
Bull. Inst. Chem. Res., Kyoto Univ., **45**, No. 4–5, 307–317 (1967).
 (ENGLISH). SHIGEMATSU LABORATORY, JAPAN.
- 5778 Plaksin, I. N., Starchik, L. P., Tustanovskii, V. T.
Analysis of rare earth elements with fast neutrons.
Industrial Laboratory, **33**, No. 9, 1297–1299 (September 1967).
 (ENGLISH TRANSLATION). A.A. SKOCHINSKII INSTITUTE OF MINING AFFAIRS, RUSSIA.
- 5779 Plaksin, I. N., Malysheva, N. G., Starchik, L. P., Zdanovich, I. D.
Use of radiative neutron-capture gamma quanta for the determination of cadmium and boron in enriched products.
Industrial Laboratory, **33**, No. 9, 1300–1302 (September 1967).
 (ENGLISH TRANSLATION). A.A. SKOCHINSKII INSTITUTE OF MINING, RUSSIA.
- 5780 Nikolaenko, O. K., Shtan, A. S.
Sensitivity of oxygen determination by fast-neutron activation.
Industrial Laboratory, **33**, No. 9, 1303–1305 (September 1967).
 (ENGLISH TRANSLATION). RUSSIA.
- 5781 Andreev, A. V., Barit, I. Y., Pronman, I. M.
Determination of the oxygen in niobium and titanium by the method of activation with fast neutrons.
Industrial Laboratory, **33**, No. 9, 1306–1308 (September 1967).
 (ENGLISH TRANSLATION). STATE SCIENTIFIC-RESEARCH AND PLANNING INSTITUTE OF RARE METAL PRODUCTION, RUSSIA.
- 5782 Barit, I. Y., Kudinov, B. S., Musaelyan, R. M., Pronman, I. M.
Determination of nitrogen in pure niobium by the method of activation with neutrons with energy of 14 MeV.
Industrial Laboratory, **33**, No. 9, 1309–1311 (September 1967).
 (ENGLISH TRANSLATION). RUSSIA.
- 5784 De Voe, J. R.
Activation analysis. Cockcroft-Walton generator, nuclear reactor, LINAC, July 1966–June 1967.
 NBS-TN-428, 90p. (November 1967)
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 5785 Samsahl, K., Wester, P. O., Landstrom, O.
An automatic group separation system for the simultaneous determination of a great number

ACTIVATION ANALYSIS—ACCESSION NUMBERS

of elements in biological material.

Anal. Chem., **40**, No. 1, 181–187
(January 1968).

(ENGLISH). AB ATOMENERGI,
STOCKHOLM, SWEDEN.

radioactive Mn and Hg in solid matrixes of Al and Ag.

Ann. Chim. (Rome), **57**, 148–158
(February 1967).

(ITALIAN) (FRENCH AND ENGLISH SUMMARIES). CENTRO NAZIONALE DI CHIMICA DEL LE RADIAZIONE E DEI RADIOELEMENTI, BOLOGNA, ITALY.

5786 Alimarin, I. P., Bilimovich, G. N., Yakovlev, Y. V.

Radioactive detection of tantalum in high-purity niobium pentoxide.
Industrial Laboratory, **33**, 794–798
(1967).

(ENGLISH TRANSLATION). V.I. VERNAD INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY OF SCIENCES OF THE USSR, RUSSIA.

5793 Rausch, H., Csada, I., Szabo, E.
Neutron activation of trace impurities in silico-chloroform.
Kozp. Fiz. Kut. Int. Kozlem., **15**, 229–237 (1967).

(HUNGARIAN). HUNGARY.

5787 Artyukhin, P. I., Gilbert, E. N., Pronin, V. A., Silvanovich, Y. A.
Activation detection of impurities in silicon and arsenic.
Industrial Laboratory, **33**, No. 6, 799–800 (1967).

(ENGLISH TRANSLATION). INSTITUTE OF INORGANIC CHEMISTRY, SIBERIAN DIVISION, ACADEMY OF SCIENCES OF THE USSR, RUSSIA.

5808 Van Den Winkel, P., Speecke, A., Hoste, J.
Separation scheme for the determination of nine elements in biological material:
Nuclear Activation Techniques in the Life Sciences, 159–172,
Vienna, International Atomic Energy Agency (1967).

(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, BELGIUM.

5788 Perlman, I., Asaro, F.
Deduction of provenience of pottery from trace element analysis.
UCRL-17937, 31p. (October 1967).

(ENGLISH). UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LABORATORY, BERKELEY, CALIF.

5847 Lenihan, J. M. A., Smith, H.
Activation analysis and public health. Survey paper.
Nuclear Activation Techniques in the Life Sciences, 601–614,
Vienna, International Atomic Energy Agency (1967).

(ENGLISH). WESTERN REGIONAL HOSPITAL BOARD AND UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND.

5790 Picer, M., Strohal, P.
Determination of thorium and uranium in biological materials.
Anal. Chim. Acta, **40**, 131–136
(1968).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR MEDICAL RESEARCH, YUGOSLAV ACADEMY OF SCIENCES AND ARTS AND RUDER BOSKOVIC INSTITUTE, ZAGREB, YUGOSLAVIA.

5848 Rakovic, M., Prouza, Z.
The resonance neutrons in activation analysis. Part 2. Determination of gold in biological material based on the analysis of decay curve.
Isotopenpraxis, **4**, No. 1, 11–15
(1968).

(ENGLISH). DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR MEDICINE, CHARLES UNIVERSITY AND VETERINARY RESEARCH CENTRE, PRAGUE, CZECHOSLOVAKIA.

5792 Bottura, G.
Application of thin-layer chromatography to the separation of organic ions. II. Separation of trace amounts (ppm) of

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 5849 U. S. Atomic Energy Commission
Neutron activation analysis and helium-3 surface activation analysis.
Fundamental Nuclear Energy Research, 1967, 53, 142-144, 186, 331-332 (January 1968).
 (ENGLISH). U.S. ATOMIC ENERGY COMMISSION.
- 5850 Lima, F. W.
Isotope production and activation analysis using research reactors.
Study Group Meeting on Research Reactor Utilization, Bogota, Colombia, 11-15 December 1967, 22p. (1967).
 (ENGLISH). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 5851 Lima, F. W., Silva, C. M.
A simple Gutzzeit-radiochemical method for activation analysis of arsenic in hair.
II Interamerican Radiochemistry Conference, Interamerican Nuclear Energy Commission and Nuclear Energy Commission of Mexico, Mexico, D.F., April 22-25, 1968, 20p. (1968).
 (ENGLISH). RADIOCHEMISTRY DIVISION, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 5852 Haskin, L. A.
Analysis of rocks and meteorites by the neutron activation method.
 Preprint, 23p.
 (SPANISH). DEPARTAMENTO DE QUIMICA, UNIVERSIDAD DE WISCONSIN, MADISON, WISCONSIN.
- 5853 Perdijon, J.
Activation analysis.
Collection de Monographies de Chimie, 156p. (1967).
 (FRENCH). INGENIEUR CIVIL DES MINES, FRANCE.
- 5854 Plaksin, I. N., Dzhemardyan, Y. A., Malysheva, N. G., Starchik, L. P.
Use of charged particles associated with neutron-induced reactions for determining the isotopic composition of boron, lithium, and hydrogen.
Radiokhimiya, 9, 501-504 (1967).
 (RUSSIAN). RUSSIA.
- 5857 Gureev, E. S., Islamov, T., Lobanov, E. M., Miranskii, I. A., Khaidarov, A. A.
On the possibility of rhenium determination by radioactivation analysis using ampul neutron sources.
Izv. Akad. Nauk Uzb. SSR, Fiz.-Mat. Nauk, No. 4, 58-61 (1967).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT, RUSSIA.
- 5858 Abdullaev, A. A., Zakhidov, A. S., Grakhov, V. A.
Determination of gold in underground waters by means of an (n, γ) reaction.
Izv. Akad. Nauk Uzb. SSR, Fiz.-Mat. Nauk, No. 4, 66-68 (1967).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT, RUSSIA.
- 5859 Lukac, P., Tolgyessy, J.
Use of short lived radionuclides in activation analysis.
Chem. Listy, 61, No. 9, 1177-1197 (1967).
 (CZECHOSLOVAKIAN). KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE, CHEMICKOTECHNOLOGICKA FAKULTA SVST, BRATISLAVA, CZECHOSLOVAKIA.
- 5860 Brune, D., Jirlow, K.
Determination of mercury in aqueous samples by means of neutron activation analysis with an account of flux disturbances.
Radiochim. Acta, 8, No. 3, 161-164 (1967).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). AB ATOMENERGI, STOCKHOLM AND STUDSVIK, SWEDEN.
- 5861 Wodkiewicz, L.
Methods of chemical separation applied to activation analysis.
Nukleonika, 10, Suppl., 83-91 (1965).
 (POLISH) (ENGLISH AND RUSSIAN)

ACTIVATION ANALYSIS – ACCESSION NUMBERS

SUMMARIES). ZAKLAD CHEMII
ANALITYCZNEJ, INSTYTUTU BADAN
JADROWYCH, WARSZAWA, POLAND.

5862 Strzyzewska, B., Radwan, Z.,
Nowicka-Jankowska, T.
Analysis of rare earths.
Nukleonika, **10**, Suppl., 309–317
(1965).

(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). ZAKLAD CHEMII
ANALITYCZNEJ, INSTYTUTU BADAN
JADROWYCH, WARSZAWA–ZERAN,
POLAND.

5863 Minczewski, J.
**Determination of trace
contaminations in high purity
materials.**
Nukleonika, **10**, Suppl., 157–167
(1965).

(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). ZAKLAD CHEMII
ANALITYCZNEJ, INSTYTUT BADAN
JADROWYCH, WARSZAWA, POLAND.

5864 Allina, Z., Otwinowski, W.
**Application of the method of
neutron activation analysis for
investigating the purity of
various materials.**
Nukleonika, **10**, Suppl., 93–99
(1965).

(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). ZAKLAD FIZYKI
TECHNICZNEJ, INSTYTUTU CHEMII
OGOLNEJ, POLAND.

5865 Sterlinski, S., Zmijewska, W.
**Determination of trace impurities
by neutron activation and gamma
spectrometry.**
Nukleonika, **10**, Suppl., 71–81
(1965).

(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). ZAKLAD CHEMII
ANALITYCZNEJ INSTYTUTU BADAN
JADROWYCH, WARSZAWA, POLAND.

5866 Florkowski, T., Gorski, L.
**Radiometric methods of industrial
chemical analysis investigated in
the Institute of Radioisotope
Techniques AGH in Krakow.**
Nukleonika, **10**, Suppl., 59–69

(1965).

(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). INSTYTUT TECHNIKI
JADROWEJ, AKADEMII GORNICZO–HUTNI
CZEJ, KRAKOW, POLAND.

5867 Hatuda, Z., Nishimura, S.,
Asayama, T.
**A trial method of determining
uranium and thorium content of
rocks in radioactive
disequilibrium by neutron
activation analysis.**

*Mem. Coll. Sci. Univ. Kyoto, Ser.
B*, **33**, 221–226 (March 1967).

(ENGLISH). DEPARTMENT OF
GEOLOGICAL SCIENCES, UNIVERSITY
OF OSAKA PREFECTURE, JAPAN.

5868 Oka, Y., Kato, T., Tsai, H. T.,
Nomura, K.
**An internal-monitor method for the
activation analysis of silver in
palladium with thermal neutrons.**
Bull. Chem. Soc. Japan, **41**, No. 2,
329–333 (1968).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
TOHOKU UNIVERSITY, KATAHIRA–CHO,
SENDAI, JAPAN.

5869 Dubinskaya, N. A., Pelekis, L. L.,
Tsirkunova, I. E.
**On treating of hair before neutron
activation analysis.**
*Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat., Ser.*, No. 3,
10–18 (1967).

(RUSSIAN) (ENGLISH SUMMARY).
INSTITUTE OF PHYSICS, RIGA,
RUSSIA.

5870 Abrams, I. A., Pelekis, L. L.
**The gamma-activation method for
the determining of Br, Ag, and In
in some materials.**
*Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat., Ser.*, No. 5,
45–49 (1967).

(RUSSIAN) (ENGLISH SUMMARY).
INSTITUTE OF PHYSICS, RIGA,
RUSSIA.

5872 Takemoto, K., Kondo, M., Iwasaka,
T., Imoto, M.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Vinyl polymerization. 195. Effect of trace metals on the polymerization of methyl methacrylate in the presence of macromolecules and water. Activation analysis of metals in cellulose and silk.**
Makromol. Chem., **112**, 110–115 (1968).
 (ENGLISH) (GERMAN SUMMARY).
 FACULTY OF ENGINEERING, OSAKA CITY UNIVERSITY, OSAKA, JAPAN.
- 5873 Hogdahl, O. T.
Distribution of the rare earth elements in sea water.
 NATO Research Grant No. 203, Semiannual Progress Report No. 5, April 1, 1967 to September 30, 1967, 34p. (November 15, 1967).
 (ENGLISH). CENTRAL INSTITUTE FOR INDUSTRIAL RESEARCH, OSLO, BLINDERN, NORWAY.
- 5874 Rakovic, M.
Non-destructive neutron activation analysis of biological material.
Acta Univ. Carol. Med., Monographia, **XXVIII**, 1–104 (1967).
 (ENGLISH) (RUSSIAN SUMMARY).
 UNIVERSITA KARLOVA, PRAHA, CZECHOSLOVAKIA.
- 5875 Sklavenitis, L.
Fine gamma spectrometry using P–i–N junctions. Application to activation analysis.
 CEA–Bib–110, 52p. (December 1967).
 (FRENCH) (ENGLISH SUMMARY).
 COMMISSARIAT A L'ENERGIE ATOMIQUE, FRANCE.
- 5884 Ehmman, W. D., Durbin, D. R.
Silicon abundances in some meteorites and standard rocks by activation analysis.
Geochim. Cosmochim. Acta, **32**, No. 4, 461–464 (1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 5919 Furukawa, Y., Koyama, M., Yuki, M.
Determination of boron content in several mediums by prompt gamma ray analysis.
Radioisotopes (Tokyo), **16**, 499–503 (October 1967).
 (ENGLISH) (JAPANESE SUMMARY).
 ATOMIC ENERGY RESEARCH LABORATORY OF MUSASHI INSTITUTE OF TECHNOLOGY, JAPAN.
- 5920 Nagatsuka, S., Suzuki, H., Nakajima, K., Kobayashi, M.
Activation analysis of bromine by 14 MeV neutrons in activable tracer study of river flow.
Radioisotopes (Tokyo), **16**, 504–508 (October 1967).
 (ENGLISH) (JAPANESE SUMMARY).
 TOKYO METROPOLITAN ISOTOPE RESEARCH CENTER, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, JAPAN.
- 5921 Sawai, T., Albert, P.
Activation analysis of oxygen in aluminium by using α and ^3He particles.
Radioisotopes (Tokyo), **16**, 509–513 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY).
 TOKYO METROPOLITAN ISOTOPE RESEARCH CENTER, JAPAN AND CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., FRANCE.
- 5922 Kudo, K., Yamamoto, K., Kuriyama, S.
Radioactivation analysis of cadmium based on the quantitative isotope dilution principle.
Radioisotopes (Tokyo), **16**, 514–518 (October 1967).
 (ENGLISH) (JAPANESE SUMMARY).
 ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, TOKAI, IBARAKI, JAPAN.
- 5923 Tamura, M., Yamaki, N.
The determination of oxygen and sulfur in petroleum products by fast-neutron activation analysis.
Radioisotopes (Tokyo), **16**, 519–525 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY).
 RESOURCES RESEARCH INSTITUTE, JAPAN.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 5924 Kusaka, Y., Chen, P. Y., Tsuji, H., Imai, S.
Radioactivation analysis of trace elements in rice plant. Determinations of manganese, magnesium, sodium, potassium, chlorine, bromine, copper, and zinc.
Radioisotopes (Tokyo), **16**, 526–530 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, KONAN UNIVERSITY, HIGASHINADA-KU, KOBE, JAPAN AND INSTITUTE OF NUCLEAR SCIENCE, TSING HUA UNIVERSITY, HSINCHU, TAIWAN, CHINA.
- 5925 Shibuya, M., Yuita, K., Suzuki, K.
Studies on the neutron activation analysis of inorganic minor elements in plants and soils. Non-destructive method of the bromine determination in plant materials by ⁸²Br.
Radioisotopes (Tokyo), **16**, 531–536 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY). NATIONAL INSTITUTE OF AGRICULTURAL SCIENCES AND MIYAZAKI PREFECTURAL AGRICULTURAL EXPERIMENTAL STATION, JAPAN.
- 5926 Kimura, Y., Morishima, H., Koga, T., Honda, Y., Kawai, H., Kimura, K., Miyaguchi, Y., Nishiwaki, Y.
Determination of arsenic in biological materials by activation analysis.
Radioisotopes (Tokyo), **16**, 537–542 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY). KINKI UNIVERSITY ATOMIC ENERGY RESEARCH INSTITUTE, FACULTY OF SCIENCE AND TECHNOLOGY, KINKI UNIVERSITY, AND TOKYO INSTITUTE OF TECHNOLOGY, JAPAN.
- 5927 Higashi, T., Hisada, T., Ikemoto, S., Tomura, K., Nagahara, T.
Activation analysis of cancerous tissue. (Part 1).
Radioisotopes (Tokyo), **16**, 543–548 (October 1967).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF RADIOLOGY, KANAGAWA DENTAL COLLEGE, DEPARTMENT OF PATHOLOGY, KANAGAWA DENTAL
- COLLEGE AND INSTITUTE FOR ATOMIC ENERGY, RIKKYO UNIVERSITY, JAPAN.
- 5928 Kudo, K., Araki, H., Fujimoto, M., Sato, Y.
Radioactivation analysis of copper in gallium arsenide as semiconductor material.
Radioisotopes (Tokyo), **16**, 549–550 (October 1967).
 (ENGLISH). ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, TOKAI, IBARAKI, JAPAN.
- 5929 Yanagisawa, I., Yoshikawa, H.
Radioactivation analysis of bromine in human cerebrospinal fluid.
Radioisotopes (Tokyo), **16**, 554–555 (October 1967).
 (ENGLISH). DEPARTMENT OF BIOCHEMISTRY, FACULTY OF MEDICINE, TOHO UNIVERSITY AND DEPARTMENT OF PHYSIOLOGICAL CHEMISTRY AND NUTRITION, FACULTY OF MEDICINE, UNIVERSITY OF TOKYO, JAPAN.
- 5930 Patek, P., Sorantin, H.
Behaviour of technical papers under irradiation. Part 2. Determination of trace elements in technical papers by neutron activation analysis.
Papier, **21**, No. 4, 179–183 (1967).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FÜR CHEMIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.
- 5931 Bogancs, J., Quittner, P., Szabo, E.
Serial study of the contaminants of silicon used for the preparation of semiconductors, by means of nondestructive neutron-activation analysis.
Magy. Kem. Foly., **73**, 346–349 (August 1967).
 (HUNGARIAN). MAGYAR TUDOMÁNYOS AKADEMIA KOZPONTI FIZIKAI KUTATÓ INTÉZETE, BUDAPEST, HUNGARY.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 5932 Hughes, J. D. H., Rogers, G. T.
High-resolution autoradiography of trace boron in metals and solids.
J. Inst. Metals, **95**, 299–302 (October 1967).
 (ENGLISH). WANTAGE RESEARCH LABORATORY, AERE, WANTAGE, BERKS., ENGLAND.
- 5933 Garbrah, B. W., Whitley, J. E.
Determination of boron in glass by thermal neutron capture gamma-ray analysis.
Glass Technol., **8**, 154–156 (December 1967).
 (ENGLISH). SCOTTISH RESEARCH CENTRE, EAST KILBRIDE, GLASGOW, SCOTLAND.
- 5934 Marchetti, F., Nucifora, G.
Determination of scandium and cesium traces in five Predazzo granites by neutron activation analysis.
Ric. Sci., **37**, No. 11, 963–966 (1967).
 (ITALIAN). ISTITUTO CHIMICO G. CIAMICIAN, UNIVERSITA DI BOLOGNA, ITALY.
- 5935 Grimanis, A. P.
Rapid determination of copper in plants by neutron activation analysis.
Talanta, **15**, No. 3, 279–285 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). CHEMISTRY DEPARTMENT, NUCLEAR RESEARCH CENTER, DEMOCRITOS, AGHIA PARASKEVI, ATTIKIS, ATHENS, GREECE.
- 5936 Gordon, G. E., Randle, K., Goles, G. G., Corliss, J. B., Beeson, M. H., Oxley, S. S.
Instrumental activation analysis of standard rocks with high resolution γ -ray detectors.
Geochim. Cosmochim. Acta, **32**, No. 4, 369–396 (1968).
 (ENGLISH). DEPARTMENTS OF CHEMISTRY AND EARTH SCIENCES, UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIFORNIA.
- 5937 Schulze, W.
Determination of the γ -peak areas in evaluation of activation analysis.
Z. Anal. Chem., **234**, No. 6, 401–408 (1968).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR ANORGANISCHE CHEMIE DER FREIEN UNIVERSITÄT BERLIN, GERMANY.
- 5938 Revel, G., Albert, P.
Determination of oxygen in zirconium, molybdenum, hafnium, and tungsten by irradiation with He-3,4.
Compt. Rend., Ser. C, **265**, 1443–1446 (December 18, 1967).
 (FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, VAL-DE-MARNE, FRANCE.
- 5939 Norman, J. C., Haskin, L. A.
The geochemistry of Sc. A comparison to the rare earths and Fe.
Geochim. Cosmochim. Acta, **32**, 93–108 (January 1968).
 (ENGLISH). CHEMISTRY DEPARTMENT, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.
- 5940 Gijbels, R., Hoste, J.
The simultaneous determination of osmium, ruthenium, iridium and gold in platinum by neutron activation analysis.
Anal. Chim. Acta, **41**, No. 3, 419–429 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 5941 Lee, H. M.
Determination of impurities in single crystals of magnesium oxide by neutron activation analysis.
Anal. Chim. Acta, **41**, No. 3, 431–440 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF PHYSICS, KINGS COLLEGE, LONDON, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 5942 Monnier, D., Loepfe, E.
Rapid radiochemical separations by exchange on mercury. Redox exchange of gold and platinum and selective determination by thermal neutron activation.
Anal. Chim. Acta, **41**, No. 3, 475-481 (1968).
 (FRENCH) (ENGLISH AND GERMAN SUMMARIES). LABORATOIRES DE CHIMIE MINERALE ET ANALYTIQUE, UNIVERSITE DE GENEVE, SUISSE.
- 5943 Tokyo Shibaura Electric Co. Ltd.
Automatic control apparatus for activation analysis.
 British Patent 1,055,657. January 18, 1967.
 (ENGLISH). KAWASAKI-SHI, JAPAN.
- 5944 Molokhia, M. M., Smith, H.
Trace elements in the lung.
Arch. Environ. Health, **15**, 745-750 (December 1967).
 (ENGLISH). GLASGOW, SCOTLAND.
- 5945 Kertesz, L.
Significance of activation analysis in medical science.
Kiserletes Orvostudomány, **18**, 627-634 (1966).
 (HUNGARIAN). COLLEGE OF MEDICINE, DEBRECEN, HUNGARY.
- 5946 British Medical Journal
Activation analysis.
Brit. Med. J., **2**, 509-510 (August 16, 1967).
 (ENGLISH). ENGLAND.
- 5947 Frischauf, H.
Neutron activation analysis in medicine.
Wien. Klin. Wochensch., **77**, 916-919 (November 19, 1965).
 (GERMAN). MEDIZINISCHEN UNIVERSITATSKLINIK, WIEN, AUSTRIA.
- 5948 Allen, R. O.
Trace analysis of halogens by neutron activation.
Proc. Iowa Acad. Sci., **72**, 139-144 (1967).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 5949 Pascu, N.
Use of gamma spectrometry for the determination of gold in native gold-bearing minerals by radioactivation by thermal neutrons.
Rev. Roum. Chim., **12**, 1123-1126 (September 1967).
 (FRENCH). INSTITUT DE CHIMIE DE L'ACADEMIE, CLUJ.
- 5950 Niewodniczanski, J., Sulin, V. V., Vitozhents, G. C.
Determination of zinc content in Upper-Silesian lead-zinc ores by means of photon activation analysis.
Nukleonika, **12**, 1153-1159 (1967).
 (ENGLISH) (POLISH AND RUSSIAN SUMMARIES). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, KRAKOW, POLAND.
- 5951 Barbe, R.
Determination of total strontium in vegetables. Comparison of activation analysis with flame photometry.
 NP-17124, 22p. (June 18, 1966).
 (FRENCH). FACULTE DES SCIENCES, GRENOBLE UNIVERSITY, FRANCE.
- 5952 Kozirowski, J., Ostachowicz, J.
The control sequence system for automatic activation analysis.
Nukleonika, **12**, 559-562 (1967).
 (POLISH) (ENGLISH AND RUSSIAN SUMMARIES). INSTYTUT TECHNIKI JADROWEJ, AKADEMIA GORNICZO-HUTNICZA, KRAKOW, POLAND.
- 5953 Kramer, H. H., Molinski, V. J., Nass, H. W.
Urinalysis for U-235, and U-238 by neutron activation analysis.
Health Phys., **13**, 27-30 (January 1967).
 (ENGLISH). UNION CARBIDE CORPORATION, STERLING FOREST RESEARCH CENTER, TUXEDO, NEW YORK.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 5954 Revel, G., Chaudron, T., Debrun, J. L., Albert, P.
Determination of carbon in pure iron by irradiation with gamma photons.
Compt. Rend., Ser. C, **226**, 322-324 (January 29, 1968).
 (FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY, VAL-DE-MARNE, FRANCE.
- 5955 Persiani, C., Cosgrove, J. F.
Determination of trace nickel, manganese, cobalt, and iron in zinc sulfide phosphor by neutron activation.
Electrochem. Technol., **6**, No. 5-6, 205-207 (1968).
 (ENGLISH). THE BAYSIDE LABORATORY, RESEARCH CENTER OF GENERAL TELEPHONE AND ELECTRONICS LABORATORIES, INC., BAYSIDE, N.Y.
- 5956 Obrusnik, I., Adamek, A.
Replacement substoichiometry and its application in activation analysis.
Talanta, **15**, No. 5, 433-440 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE OF NUCLEAR RESEARCH OF CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 5957 Schuster, E., Wohlleben, K.
Activation analysis with deuterons. The total cross-section of the reaction $^{27}\text{Al}(\text{d}, \text{p})^{28}\text{Al}$ from 0.6 to 3.2 MeV.
Intern. J. Appl. Radiation Isotopes, **19**, No. 5, 471-474 (1968).
 (GERMAN) (ENGLISH, FRENCH AND RUSSIAN SUMMARIES). GERMANY.
- 5958 Linn, T. A., Moore, C. B., Schmitt, R. A.
Neutron activation determination of vanadium in iron meteorites and sulfide nodules.
Geochim. Cosmochim. Acta, **32**, No. 5, 561-564 (1968).
 (ENGLISH). CHEMISTRY DEPARTMENT AND CENTER FOR METEORITE STUDIES, ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA.
- 5959 Simon, F. O., Millard, H. T.
Determination of gold in rocks by neutron activation analysis using fire assay preconcentration.
Anal. Chem., **40**, No. 7, 1150-1152 (1968).
 (ENGLISH). U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.
- 5960 Brunfelt, A. O., Steinnes, E.
Determination of antimony in rocks by neutron activation analysis.
Analyst (London), **93**, No. 1106, 286-288 (1968).
 (ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.
- 5961 Massart, D. L., Hoste, J.
Activation analysis of rare earths. Part I. Separation of rare earths from accompanying elements.
Anal. Chim. Acta, **42**, No. 1, 7-14 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 5962 Massart, D. L., Hoste, J.
Activation analysis of rare earths. Part II. Determination of lutetium in gadolinite.
Anal. Chim. Acta, **42**, No. 1, 15-20 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 5963 Massart, D. L., Hoste, J.
Activation analysis of rare earths. Part III. The determination of rare earths in minerals by the single comparator technique.
Anal. Chim. Acta, **42**, No. 1, 21-28 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR

ACTIVATION ANALYSIS—ACCESSION NUMBERS

NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.

SOCIETE L'ATOME INDUSTRIEL,
CHATILLON-SOUS-BAGNEUX, FRANCE.

- 5964 Massart, D. L., Hoste, J.
Activation analysis of rare earths. Part IV. Determination of traces of rare-earth impurities in Gd₂O₃.
Anal. Chim. Acta, **42**, No. 1, 166-170 (1968).
(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 5965 Berzina, I. G., Dolomanova, E. I.
Uranium content in cassiterites determined by uranium fission fragment tracks.
Dokl. Akad. Nauk SSSR, **175**, 171-174 (July 1, 1967).
(RUSSIAN). RUSSIA.
- 5966 Radwan, M., Revenska-Koctsyuk, B., Vezranovski, E.
Use of a new method involving labeling with nonradioactive elements and activation analysis to investigate wear.
Radioisotope Tracers in Industry and Geophysics, 71-79, Vienna, International Atomic Energy Agency (1967).
(RUSSIAN) (ENGLISH SUMMARY). RUSSIA.
- 5967 Nakasa, H., Ohno, H.
Application of neutron activation analysis to stack-gas tracing.
Radioisotope Tracers in Industry and Geophysics, 239-250, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). CENTRAL RESEARCH INSTITUTE OF ELECTRIC POWER INDUSTRY, TOKYO, JAPAN.
- 5968 Bondy, C., Robin, G., Vidal, J. P.
Industrial uses of activable tracers in metallurgy, glassmaking, and chemistry.
Radioisotope Tracers in Industry and Geophysics, 429-449, Vienna, International Atomic Energy Agency (1967).
(FRENCH) (ENGLISH SUMMARY).
- 5969 Hirayama, T., Hamada, K., Osada, K.
Process analysis in chemical plant by means of radioactive tracers.
Radioisotope Tracers in Industry and Geophysics, 469-476, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). SHOWA DENKO K.K., TOKYO, JAPAN.
- 5970 Vajta, L., Palmai, G., Szebenyi, I., Toth, G.
New results of activation analytical determination of trace elements in various crude oils processed in Hungary.
Period. Polytech., Chem. Eng. (Budapest), **11**, No. 3-4, 275-282 (1967).
(GERMAN). LEHRSTUHL FUR CHEMISCHE TECHNOLOGIE, TECHNISCHE UNIVERSITAT, BUDAPEST, HUNGARY.
- 5971 Routti, J. T.
Graphical technique for estimating activity levels produced in thermal- and fission- neutron irradiation.
Anal. Chem., **40**, 593-602 (March 1968).
(ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 5972 Atomic Energy for Peace, Bangkok
Manganese toxication in the human body as determined by activation analysis.
Radiation Safety Manual, THAI-AEC-1, 13p. (December 1966).
(ENGLISH). OFFICE OF THE ATOMIC ENERGY FOR PEACE, BANGKOK, THAILAND.
- 5973 Meinke, W. W.
Some comments on activation analysis.
Preprint, Presented at the Second Inter-American Conference on Radiochemistry, April 22-25, 1968, Mexico City, Mexico, 10p.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (1968).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, ANALYTICAL CHEMISTRY DIVISION, WASHINGTON, D.C.
- 5974 Lyon, W. S.
Physical techniques of activation analysis. Survey paper.
Nuclear Activation Techniques in the Life Sciences, 13–32,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 5975 Wainerdi, R. E., Menon, M. P.
Comparison of nuclear activation methods for bromine. Instrumental analyses of pesticides in plant materials close to the limit of sensitivity.
Nuclear Activation Techniques in the Life Sciences, 33–50,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 5976 Ryabukhin, Y. S.
Comparison of reactor activation analysis of trace elements in tissue with other instrumental methods.
Nuclear Activation Techniques in the Life Sciences, 51–63,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(RUSSIAN) (ENGLISH SUMMARY). INSTITUT MEDITSINSKOIY RADIOLOGII, AMN SSSR, OBNINSK, RUSSIA.
- 5977 Cooper, R. D., Linekin, D. M., Brownell, G. L.
Activation analysis of biological tissue without chemical separation.
Nuclear Activation Techniques in the Life Sciences, 65–80,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 5978 Breynat, G., Fourcy, A., Garrec, J. P.
Rapid determination of magnesium and aluminium in plants by activation with 14 MeV neutrons.
Nuclear Activation Techniques in the Life Sciences, 81–98,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(FRENCH) (ENGLISH SUMMARY). CEA, CENTRE D ETUDES NUCLEAIRES DE GRENOBLE, FRANCE.
- 5979 Andersen, G. H., Graber, F. M., Guinn, V. P., Lukens, H. R., Settle, D. M.
Photonuclear activation analysis of biological materials for various elements, including fluorine.
Nuclear Activation Techniques in the Life Sciences, 99–113,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 5980 Girardi, F.
Radiochemical separations in activation analysis of biological specimens.
Nuclear Activation Techniques in the Life Sciences, 117–135,
Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). CCR—EURATOM, ISPRA, VARESE, ITALY.
- 5981 Jervis, R. E., Wong, K. Y.
Chromatographic group separation scheme used with gamma

ACTIVATION ANALYSIS—ACCESSION NUMBERS

spectrometry for multi-element activation analysis surveys.

Nuclear Activation Techniques in the Life Sciences, 137-158, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). UNIVERSITY OF TORONTO, TORONTO, CANADA.

5982 Bock-Werthmann, W.

A new sodium separation method for activation analysis of biological material.

Nuclear Activation Techniques in the Life Sciences, 173-178, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). GESELLSCHAFT FÜR STRAHLENFORSCHUNG M.B.H., NEUHERBERG, MUNICH, GERMANY.

5983 Heydorn, K.

Improvement of accuracy by multiple carrier addition followed by re-irradiation yield determination in a simple method for the determination of arsenic in biological material.

Nuclear Activation Techniques in the Life Sciences, 179-188, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIFORNIA.

5984 Adamek, A., Obrusnik, I., Kukula, F., Krivanek, M.

Substoichiometric determination of traces of thallium and platinum by activation analysis.

Nuclear Activation Techniques in the Life Sciences, 189-194, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). INSTITUTE OF PHYSICS OF THE SLOVAK ACADEMY OF SCIENCES, BRATISLAVA, CZECHOSLOVAKIA.

5985 Smith, G. W., Becker, D. A.

Preparation of an NBS biological standard reference material for trace elemental analysis.

Nuclear Activation Techniques in the Life Sciences, 197-207, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). INSTITUTE FOR MATERIALS RESEARCH, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

5986 Morrison, G. H.

Trace analysis of biological materials by mass spectrometry and isotope dilution. Survey paper.

Nuclear Activation Techniques in the Life Sciences, 211-228, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). CORNELL UNIVERSITY, ITHACA, N.Y.

5987 Girardi, F., Pauly, J., Sabbioni, E., Vos, G.

Elemental analysis of a biological standard reference material by non-destructive methods.

Comparison between radioactivation analysis and x-ray fluorescence spectroscopy.

Nuclear Activation Techniques in the Life Sciences, 229-246, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). CCR-EURATOM, ISPRA, ITALY.

5988 Herrmann, R., Lang, W.

Atomic absorption and flame emission spectrometry in trace analysis of biological materials.

Nuclear Activation Techniques in the Life Sciences, 247-265, Proceedings of a Symposium, Amsterdam, 8-12 May 1967, Vienna, International Atomic Energy Agency (1967).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). UNIVERSITÄTS-HAUTKLINIK, GIESSEN, GERMANY.

- 5989 Van Puymbroeck, S., Jacquemin, R., Colard, J., Kirchmann, R., Van Der Borcht, O.

Determination of stable strontium in biological samples by atomic absorption, flame spectrophotometry and activation analysis methods.

Nuclear Activation Techniques in the Life Sciences, 267–284, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, MOL-DONK, BELGIQUE.

- 5990 Bowen, H. J. M.

Activation analysis in botany and agriculture. Survey paper.

Nuclear Activation Techniques in the Life Sciences, 287–299, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). UNIVERSITY OF READING, READING, BERKS., ENGLAND.

- 5991 Travesi, A., Lee, Y. Y.

Identification and determination of trace elements in rice seeds by neutron activation analysis.

Nuclear Activation Techniques in the Life Sciences, 301–324, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(SPANISH) (ENGLISH SUMMARY). DIVISION DE QUIMICA NUCLEAR, JUNTA DE ENERGIA NUCLEAR, MADRID, ESPANA.

- 5992 Fendrik, I., Glubrecht, H.

Investigations of the propagation of plant pollen by an indicator activation method.

Nuclear Activation Techniques in the Life Sciences, 325–333,

Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). TECHNISCHE HOCHSCHULE, HANOVER, GERMANY.

- 5993 Spronk, N.

Nuclear activation in the animal sciences. Survey paper.

Nuclear Activation Techniques in the Life Sciences, 335–352, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). FREE UNIVERSITY, AMSTERDAM, NETHERLANDS.

- 5994 Duftschmid, K. E., Leibetseder, J.

Investigations of the connection between Vitamin E deficiency and the selenium content in animal organs.

Nuclear Activation Techniques in the Life Sciences, 353–363, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). REAKTOR-ZENTRUM SEIBERSDORF AND TIERARZTLICHE HOCHSCHULE, VIENNA, AUSTRIA.

- 5995 Papadopoulou, C. P., Cazianis, C. T., Grimanis, A. P.

Neutron activation analysis of vanadium, copper, zinc, bromine and iodine in pyura microcosmos.

Nuclear Activation Techniques in the Life Sciences, 365–377, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). DEMOCRITUS NUCLEAR RESEARCH CENTRE, ATHENS, GREECE.

- 5996 Das, H. A., Van Raaphorst, J. G., Menger, J. W., Galesloot, T. E.

Manganese determination at the pp10⁹ level in dairy products.

Nuclear Activation Techniques in the Life Sciences, 379–387, Proceedings of a Symposium,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). REACTOR CENTRUM
NEDERLAND.

5997 Taylor, D. M.

**Activation analysis in human
biochemistry.**

*Nuclear Activation Techniques in
the Life Sciences*, 391–401,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). INSTITUTE OF CANCER
RESEARCH, SUTTON, SURREY,
ENGLAND.

5998 Comar, D., Kellersohn, C.

**Use of radioactivation analysis in
medicine.**

*Nuclear Activation Techniques in
the Life Sciences*, 403–417,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). SERVICE HOSPITALIER
FREDERIC JOLIOT, COMMISSARIAT A
L'ENERGIE ATOMIQUE, ORSAY,
FRANCE.

5999 Cottino, F., Magro, G., Malvano,
R.

**Neutron activation analysis for
the study of iodine balance in
man.**

*Nuclear Activation Techniques in
the Life Sciences*, 419–425,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). OSPEDALE MAURIZIANO,
TORINO, ITALY.

6000 Tang, C. W., Tomlinson, R. H.

**Determination of protein-bound
iodine by activation analysis.**

*Nuclear Activation Techniques in
the Life Sciences*, 427–434,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy

Agency (1967).

(ENGLISH). MC MASTER UNIVERSITY,
HAMILTON, ONTARIO, CANADA.

6001 Sklavenitis, H., Comar, D.

**Activation analysis for studying
bromine metabolism in man.**

*Nuclear Activation Techniques in
the Life Sciences*, 435–444,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(FRENCH) (ENGLISH SUMMARY).
SERVICE HOSPITALIER FREDERIC
JOLIOT, COMMISSARIAT A L'ENERGIE
ATOMIQUE, ORSAY, FRANCE.

6002 Carr, T. E. F., Sutton, A.

**Measurement of strontium and
barium in small volumes of plasma
by activation analysis and
subsequent estimates of the
diurnal variation of these
elements in human plasma.**

*Nuclear Activation Techniques in
the Life Sciences*, 445–454,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). MEDICAL RESEARCH
COUNCIL, HARWELL, DIDCOT, BERKS.,
ENGLAND.

6003 Nixon, G. S., Smith, H.,
Livingston, H. D.

**Trace elements in human tooth
enamel.**

*Nuclear Activation Techniques in
the Life Sciences*, 455–462,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).

(ENGLISH). TURNER DENTAL SCHOOL,
UNIVERSITY OF MANCHESTER,
MANCHESTER, ENGLAND AND
DEPARTMENT OF FORENSIC MEDICINE,
UNIVERSITY OF GLASGOW, GLASGOW,
SCOTLAND.

6004 Stubbins, M. I., Fremlin, J. H.

**Distribution of carbon, calcium
and phosphorus in dental enamel**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

studied by charged-particle activation analysis.

Nuclear Activation Techniques in the Life Sciences, 463–478, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). UNIVERSITY OF BIRMINGHAM, BIRMINGHAM, ENGLAND.

6005 Ordogh, M., Miriszlai, E.

Electrolyte balance of the inner ear investigated by neutron activation analysis of the sodium and potassium content.

Nuclear Activation Techniques in the Life Sciences, 479–489, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). MEDICAL UNIVERSITY OF BUDAPEST, BUDAPEST, HUNGARY.

6006 Bird, E. D., Grant, L. G., Ellis, W. H.

Measurement of the effect of phenothiazine on the manganese concentration in the basal ganglia of sub-human primates by activation analysis.

Nuclear Activation Techniques in the Life Sciences, 491–499, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.

6007 Worwood, M., Taylor, D. M.

Hepatic copper and cirrhosis.

Nuclear Activation Techniques in the Life Sciences, 501–510, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). INSTITUTE OF CANCER RESEARCH, SUTTON, SURREY, ENGLAND.

6008 Giovannetti, S., Maggiore, Q., Malvano, R.

Neutron activation analysis of trace elements in plasma from normal subjects and from chronic uraemic patients.

Nuclear Activation Techniques in the Life Sciences, 511–515, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). UNIVERSITY OF PISA, PISA, ITALY.

6009 Kjellin, K. G.

Trace elements in the cerebrospinal fluid.

Nuclear Activation Techniques in the Life Sciences, 517–532, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). KAROLINSKA SJUKHUSET, STOCKHOLM, SWEDEN.

6010 Bethard, W. F., Schmitt, R. A., Olehy, D. A., Kaplan, S. A., Ling, S. M., Smith, R. H., Molle, E. D.

Enriched stable isotopes of calcium for the study of calcium metabolism in children.

Nuclear Activation Techniques in the Life Sciences, 533–544, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(ENGLISH). GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

6011 Dubois, J., Colard, J., Vis, H. L.

Neutron activation for studying hydroelectrolytic disorders in child pathology.

Nuclear Activation Techniques in the Life Sciences, 545–556, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

(FRENCH) (ENGLISH SUMMARY). HOSPITAL UNIVERSITAIRE ST. PIERRE, BRUXELLES, BELGIQUE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6012 Perkins, R. W., Haller, W. A.,
Thorpe, J. D.
Trace element analysis of human lung tissue by neutron activation and instrumental analysis.
Nuclear Activation Techniques in the Life Sciences, 557–566, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 6013 Van Kooten, W. J., Mali, J. W. H.,
De Goeij, J. J. M., Houtman, J. P. W.
Determination of chromium content in human skin by means of neutron activation analysis.
Nuclear Activation Techniques in the Life Sciences, 567–572, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). R.K. UNIVERSITEIT, NIJMEGEN AND REACTOR INSTITUTE, DELFT, NETHERLANDS.
- 6014 Battye, C. K., Tomlinson, R. W. S.,
Anderson, J., Osborn, S. B.
Experiments relating to whole-body activation analysis in man in vivo using 14 MeV incident neutrons.
Nuclear Activation Techniques in the Life Sciences, 573–582, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). KINGS COLLEGE HOSPITAL AND MEDICAL SCHOOL, LONDON, ENGLAND.
- 6015 Boddy, K., Alexander, W. D.
Clinical experience of in vivo activation analysis of iodine in the thyroid gland.
Nuclear Activation Techniques in the Life Sciences, 583–597, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
- (ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE AND WESTERN INFIRMARY, GLASGOW, SCOTLAND.
- 6016 Merlini, M., Girardi, F., Pozzi, G.
Activation analysis in studies of an aquatic ecosystem.
Nuclear Activation Techniques in the Life Sciences, 615–629, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). EURATOM-CCR, ISPRA, ITALY.
- 6017 Winchester, J. W., Duce, R. A.
Neutron activation analysis of lead pollution aerosols.
Nuclear Activation Techniques in the Life Sciences, 631–643, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN AND UNIVERSITY OF HAWAII, HONOLULU, HAWAII.
- 6018 Jervis, R. E.
Activation analysis in forensic science.
Nuclear Activation Techniques in the Life Sciences, 645–659, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).
(ENGLISH). UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 6019 Van Den Berg, A. J., De Bruin, M.,
Houtman, J. P. W.
Sorption behaviour of trace elements in human hair.
Nuclear Activation Techniques in the Life Sciences, 661–679, Proceedings of a Symposium, Amsterdam, 8–12 May 1967, Vienna, International Atomic Energy Agency (1967).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (ENGLISH). REACTOR INSTITUTE,
DELFT, NETHERLANDS.
- 6020 Bryan, D. E., Guinn, V. P.,
Settle, D. M.
**Activation analysis of biological
samples of forensic interest.**
*Nuclear Activation Techniques in
the Life Sciences*, 681–694,
Proceedings of a Symposium,
Amsterdam, 8–12 May 1967, Vienna,
International Atomic Energy
Agency (1967).
(ENGLISH). GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.
- 6021 Pro, M. J., Schlesinger, H. L.,
Hoffman, C. M.
**Application of neutron activation
analysis in criminalistics.**
AEC Unnumbered Report, 96p.
(November 1965).
(ENGLISH). U.S. TREASURY
DEPARTMENT, INTERNAL REVENUE
SERVICE, WASHINGTON, D.C.
- 6022 Pasztor, E.
**The NA-2 neutron generator and its
applications.**
Isotopenpraxis, **3**, 259–261 (July
1967).
(ENGLISH). HUNGARIAN ACADEMY OF
SCIENCES, CENTRAL RESEARCH
INSTITUTE FOR PHYSICS.
- 6023 Lunde, G.
**Activation analysis of bromine,
iodine and arsenic in oils from
fishes, whales, phyto- and
zooplankton of marine and
limnetic biotopes.**
Int. Rev. Gesam. Hydrobiol., **52**,
265–279 (1967).
(ENGLISH). CENTRAL INSTITUTE FOR
INDUSTRIAL RESEARCH, OSLO,
NORWAY.
- 6024 Krivanek, M., Kukula, F.
**Substoichiometric determination of
platinum by activation analysis.**
Isotopenpraxis, **3**, 441–443 (1967).
(RUSSIAN). RUSSIA.
- 6025 Guinn, V. P.
**Neutron activation analysis and
its forensic applications.**
GA-8171, 7–40 (1967).
(ENGLISH). GENERAL DYNAMICS,
GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.
- 6026 Kirk, P. L.
**Some criminalistics problems, and
neutron activation analysis.**
GA-8171, 41–48 (1967).
(ENGLISH). SCHOOL OF
CRIMINOLOGY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.
- 6027 Lenihan, J. M. A.
**Organization and equipment of an
activation analysis laboratory.**
GA-8171, 49–62 (1967).
(ENGLISH). WESTERN REGIONAL
HOSPITAL BOARD, GLASGOW,
SCOTLAND.
- 6028 Leddicotte, G. W.
**Early forensic neutron activation
analysis studies at the Oak Ridge
National Laboratory.**
GA-8171, 63–78 (1967).
(ENGLISH). UNIVERSITY OF
MISSOURI, COLUMBIA, MISSOURI.
- 6029 Wahlgren, M. A.
**Application of special counting
techniques to forensic problems.**
GA-8171, 79–102 (1967).
(ENGLISH). CHEMISTRY DIVISION,
ARGONNE NATIONAL LABORATORY,
ARGONNE, ILLINOIS.
- 6030 Pro, M. J., Schlesinger, H. L.,
Hoffman, C. M.
**Forensic applications of neutron
activation analysis.**
GA-8171, 103–116 (1967).
(ENGLISH). ALCOHOL AND TOBACCO
TAX DIVISION, LABORATORY BRANCH,
INTERNAL REVENUE SERVICE,
WASHINGTON, D.C.
- 6031 Sayre, E. V.
**Revelation of internal structure
of paintings through neutron
activation autoradiography.**
GA-8171, 119–132 (1967).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.

6038 Smythe, L. E., Ryan, W. P.
**Neutron activation analysis of
some hair samples as evidence for
an Australian court.**
GA-8171, 237-246 (1967).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, AUSTRALIAN ATOMIC
ENERGY COMMISSION RESEARCH
ESTABLISHMENT, LUCAS HEIGHTS,
SYDNEY, AUSTRALIA.

6032 Bryan, D. E.

**The comparison of paint samples by
neutron activation analysis.**

GA-8171, 133-144 (1967).

(ENGLISH). GENERAL DYNAMICS,
GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.

6039 Lima, F. W.

**Exogenous contamination of hair by
capillary action of arsenic
solutions.**

GA-8171, 261-278 (1967).

(ENGLISH). INSTITUTO DE ENERGIA
ATOMICA, SAO PAULO, BRAZIL.

6033 Settle, D. M.

**Neutron activation and photonuclear
activation analysis of glass samples.**

GA-8171, 147-160, 1967.

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.

6040 Erickson, N. E.

Arsenic in hair.

GA-8171, 279-286 (1967).

(ENGLISH). THE CENTRE OF
FORENSIC SCIENCES, TORONTO,
CANADA.

6034 Guinn, V. P.

**The determination of traces of
barium and antimony in gunshot
residues by activation analysis.**

GA-8171, 161-176 (1967).

(ENGLISH). GENERAL DYNAMICS,
GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.

6041 Jervis, R. E.

**The value of neutron activation
analysis hair comparisons in
forensic investigations — a
critique.**

GA-8171, 287-294 (1967).

(ENGLISH). DEPARTMENT OF
CHEMICAL ENGINEERING AND APPLIED
CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, CANADA.

6035 Krishnan, S. S.

**Distance determination of gunshot
firings by neutron activation
analysis.**

GA-8171, 177-188 (1967).

(ENGLISH). ATTORNEY-GENERALS
LABORATORY, PROVINCE OF ONTARIO,
TORONTO, CANADA.

6042 Smith, H.

**Activation analysis in forensic
science using radiochemical
separations.**

GA-8171, 295-314 (1967).

(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, THE
UNIVERSITY, GLASGOW, SCOTLAND.

6036 Schlesinger, H. L., Hoffman, C.
M., Pro, M. J.

**Bullet residue transference to
various materials.**

GA-8171, 189-198 (1967).

(ENGLISH). ALCOHOL AND TOBACCO
TAX DIVISION, LABORATORY BRANCH,
INTERNAL REVENUE SERVICE,
WASHINGTON, D.C.

6043 Massart, D. L., Hoste, J.

**Activation analysis study of the
isotopic fractionation of rare
earth oxides.**

Bull. Soc. Chim. Belges, 77, No.
3-4, 166-170 (1968).

(FRENCH). INSTITUUT NUCLEAIRE
WETENSCHAPPEN, PROEFUINSTRAT,
GENT.

6037 Perkons, A. K.

**Individualization of human head
hair.**

GA-8171, 221-236 (1967).

(ENGLISH). THE CENTRE OF
FORENSIC SCIENCES, TORONTO,
ONTARIO, CANADA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6044 Sacha, J.
Determination of the calcium content of NaCl by activation analysis.
Fyz. Cas., **17**, No. 2, 73–81 (1967).
 (CZECHOSLOVAKIAN). BRATISLVA, CZECHOSLOVAKIA.
- 6045 Kobayashi, M.
Application of radioactivation analysis for criminal investigation.
Genshiryoku Kogyo, **13**, No. 12, 43–46 (1967).
 (JAPANESE). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, ORAI-CHO, IBARAKI, JAPAN.
- 6046 Kowalski, B. R., Isenhour, T. L.
An analytical function for describing γ -ray pulse–height distributions in NaI(Tl) scintillators.
Anal. Chem., **40**, No. 8, 1186–1193 (July 1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON.
- 6047 Alexander, W. D., Harden, R. M., Boddy, K.
Activation analysis.
Brit. Med. J., **1**, 799 (September 23, 1967).
 (ENGLISH). UNIVERSITY DEPARTMENT OF MEDICINE, GARDINER INSTITUTE, WESTERN INFIRMARY, GLASGOW, SCOTLAND.
- 6048 Hoffman, C. M., Brunelle, R. L., Pro, M. J., Martin, G. E.
Determination of trace component distribution in illicit spirits by neutron activation analysis, atomic absorption, and gas–liquid chromatography.
J. Assn. Offic. Anal. Chem., **51**, No. 3, 580–586 (1968).
 (ENGLISH). ALCOHOL AND TOBACCO TAX DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 6049 Cosgrove, J. F., Oblas, D. W., Walters, R. M., Bracco, D. J.
Method for trace analysis of rare earths.
Electrochem. Technol., **6**, 137–141 (March–April 1968).
 (ENGLISH). THE BAYSIDE LABORATORY, RESEARCH CENTER OF GENERAL TELEPHONE AND ELECTRONICS LABORATORIES INC., BAYSIDE, N.Y.
- 6050 Linn, T. A., Moore, C. B.
Neutron activation determination of gold in iron meteorites and inclusions.
Earth Planet. Sci. Lett., **3**, 453–456 (February 1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND CENTER FOR METEORITE STUDIES, ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA.
- 6051 Leddicotte, G. W.
Ultratracer–element research in the life sciences using activation analysis.
Isotop. Radiat. Technol., **5**, 200–206 (Spring 1968).
 (ENGLISH). NUCLEAR ENGINEERING AND RADIOLOGICAL SCIENCE, RESEARCH REACTOR FACILITY, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 6052 Lunde, G.
Analysis of arsenic in marine oils by neutron activation. Evidence of arseno organic compounds.
J. Amer. Oil Chem. Soc., **45**, No. 5, 331–332 (1968).
 (ENGLISH). CENTRAL INSTITUTE FOR INDUSTRIAL RESEARCH, BLINDERN, OSLO, NORWAY.
- 6053 Aleksandrova, G. I.; Demidov, A. M., Kotelnikov, G. A., Plashakova, G. P., Sukhov, G. V., Choporov, D. Y., Shmanenkova, G. I.
Determination of oxygen content in germanium and silicon by activation with ^3He ions.
Soviet Atomic Energy, **23**, No. 2, 787–801 (1967).
 (ENGLISH TRANSLATION). RUSSIA.
- 6054 Minczewski, J., Foldzinska, A.
Neutron–activation determination

ACTIVATION ANALYSIS—ACCESSION NUMBERS

of rhenium in molybdenites and copper ores.

J. Anal. Chem., USSR, **22**, No. 10, 1272-1275 (1967).

(ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.

(FRENCH). (ENGLISH SUMMARY).
UNIVERSITE DE L'ETAT A LIEGE.

6060 Aebersold, P. C.

Powerful nuclear techniques for universal use.

National Conference on Nuclear Energy, Application of Isotopes and Radiation, 600-623, Pelindaba, South Africa, Atomic Energy Board (1963).

(ENGLISH). DIVISION OF ISOTOPES DEVELOPMENT, U.S. ATOMIC ENERGY COMMISSION.

6055 Arwill, T., Myrberg, N., Soremark, R.

The concentration of Cl, Na, Br, Cu, Sr, and Mn in human mixed saliva.

Odontol. Revy, **18**, 1-6 (1967).

(ENGLISH). UNIVERSITY OF UMEA, UMEA, SWEDEN.

6061 Houtman, J. P. W., Turkstra, J.

Determination of the age of white lead by neutron activation - possible application to paintings.

National Conference on Nuclear Energy, Application of Isotopes and Radiation, 588-593, Pelindaba, South Africa, Atomic Energy Board (1963).

(ENGLISH). REACTOR INSTITUTE, DELFT, HOLLAND.

6056 Mc Kibben, J. M.

Reaction gammas for analysis of impurities in alpha emitters.

Nucl. Appl., **4**, 260-267 (April 1968).

(ENGLISH). E.I. DU PONT DE NEMOURS AND COMPANY, SAVANNAH RIVER PLANT, AIKEN, SOUTH CAROLINA.

6062 Kenna, B. T., Conrad, F. J.

Determination of sodium in high purity silica by activation analysis.

Talanta, **15**, No. 4, 418-420 (1968).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). SANDIA LABORATORY, ANALYTICAL METHODS DIVISION, ALBUQUERQUE, NEW MEXICO.

6057 Edwards, R. R.

A review of recent studies of nondestructive assay methods for irradiated nuclear fuels.

Nucl. Appl., **4**, 245-259 (April 1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY, CARNEGIE-MELLON UNIVERSITY, PITTSBURGH, PENNSYLVANIA.

6063 Dubois, J., Colard, J., Vis, H. L.

Muscle electrolyte composition determined by neutron activation. A preliminary study of dehydration in infants.

J. Nucl. Med., **7**, 827-836 (November 1966).

(ENGLISH). UNIVERSITE LIBRE DE BRUXELLES, BRUSSELS, BELGIUM.

6058 Haller, W. A.

Evaluation of elemental tracers and neutron activation analyses in atmospheric precipitation studies.

BNWL-481-1, 82-85 (October 1967).

(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.

6064 Teree, T. M., Cohn, S. H.

The determination of strontium in human serum using neutron activation analysis.

J. Nucl. Med., **7**, 848-858 (November 1966).

6059 Weber, G., Cuypers, M.

Measurement of the relative ratio of thermal neutrons/fast neutrons in an activation analysis installation.

Bull. Soc. Roy. Sci. Liege, **37**, No. 1-2, 55-63 (1968).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). WESTERN RESERVE
UNIVERSITY, CLEVELAND, OHIO.

- 6065 Persiani, C., Cosgrove, J. F.
**Determination of stoichiometry of
vanadium and titanium oxides by
14 MeV neutron activation.**
Anal. Chem., **40**, No. 8, 1350–1352
(July 1968).

(ENGLISH). THE BAYSIDE
LABORATORY, RESEARCH CENTER OF
GENERAL TELEPHONE AND ELECTRONICS
LABORATORIES, INC., BAYSIDE, N.Y.

- 6066 Rook, H. L., Schweikert, E. A.,
Wainerdi, R. E.
**Study of the chemical etching
procedure used to remove surface
oxygen contamination in charged
particle activation analysis.**
Anal. Chem., **40**, No. 8, 1194–1196
(July 1968).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

- 6067 Olehy, D. A., Schmitt, R. A.,
Bethard, W. F.
**Neutron activation analysis of
magnesium, calcium, strontium,
barium, manganese, cobalt,
copper, zinc, sodium, and
potassium in human erythrocytes
and plasma.**
J. Nucl. Med., **7**, 917–927
(December 1966).

(ENGLISH). NATIONAL REACTOR TEST
SITE, IDAHO FALLS, IDAHO.

- 6068 Feldman, M. H., Mc Namara, J.,
Reba, R. C., Webster, W.
**Protein-bound iodine determination
by activation analysis.**
J. Nucl. Med., **8**, 123–131
(February 1967).

(ENGLISH). GEORGETOWN UNIVERSITY
MEDICAL SCHOOL, WASHINGTON, D.C.

- 6069 Scheer, K. E., Krauss, O., Varga,
L.
**Determination of thoratrast in
tissue samples by neutron
activation analysis.**
Atompraxis, **13**, 451–453 (October
1967).

(GERMAN). INSTITUT FÜR
NUKLEARMEDIZIN DES DEUTSCHEN
KREBSFORSCHUNGSZENTRUMS
HEIDELBERG, GERMANY.

- 6070 Engelmann, C.
**Activation analysis using gamma
photons.**
CEA-R-3307, 64p. (December 1967).
(FRENCH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, CENTRE D
ETUDES NUCLEAIRES DE SACLAY,
FRANCE.

- 6071 Pinte, G.
**Application of neutron activation
analysis to the study of
impurities in molybdenum,
tungsten, and nuclear graphite.**
CEA-R-3267, 76p. (October 1967).
(FRENCH). CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, FRANCE.

- 6072 Aleksandrova, G. I., Demidov, A.
M., Kotelnikov, G. A.,
Pleshakova, G. P., Sukhov, G. V.,
Choporov, D. Y., Shmanenkova, G.
I.
**Determination of the oxygen
content in germanium and silicon
by activation by ³He ions.**
IAE-1165, 15p. (1966).
(RUSSIAN). INSTITUT ATOMNOI
ENERGII, GOSUDARSTVENNYI KOMITET
PO ISPOLZOVANIYU ATOMNOI ENERGII
SSSR, MOSCOW, RUSSIA.

- 6073 Corless, J. T.
**Isotopic abundance studies by
neutron activation analysis.**
NYO-3369-9, 56p. (January 15,
1968).
(ENGLISH). GRADUATE SCHOOL OF
OCEANOGRAPHY, UNIVERSITY OF RHODE
ISLAND.

- 6074 Steinnes, E.
**Determination of some lanthanide
elements in apatites by
instrumental neutron activation
analysis.**
KR-120, 23p. (October 1967).
(ENGLISH). INSTITUTT FOR
ATOMENERGI, KJELLER RESEARCH
ESTABLISHMENT, KJELLER, NORWAY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6075 Wood, D. E.
Some principles of activation analysis.
 KN-68-71(R), 72p. (February 1968).
 (ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 6076 Berlandi, F. J.
Neutron activation electrodeposition techniques.
 Thesis. University of Michigan, 147p. (1966).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 6077 Beard, H. R.
Determination of rare earths and other trace impurities in lead zirconate titanate ceramics by neutron activation analysis and piezoelectric properties of lead zirconate titanate ceramics as modified by small quantities of rare earth, uranium, and hafnium additives.
 Thesis. University of Utah, 170p. (1966).
 (ENGLISH). UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH.
- 6078 Cram, S. P.
Analytical applications of gas chromatography in the neutron activation analysis of short-lived isotopes.
 Thesis. University of Illinois, 189p. (1967).
 (ENGLISH). UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.
- 6079 Frey, F. A.
Rare-earth elements in basic and ultra-basic rocks.
 Thesis. University of Wisconsin, 435p. (1967).
 (ENGLISH). UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.
- 6080 Kim, C. K.
Neutron activation analysis of ^{197}Hg and related radiochemical separations.
 Thesis. University of Maryland, 74p. (1966).
 (ENGLISH). UNIVERSITY OF
- MARYLAND, COLLEGE PARK, MARYLAND.
- 6081 Reed, G. L. V.
Determination of aluminum and cadmium by neutron activation of their chelates.
 Thesis. University of Maryland, 92p. (1966).
 (ENGLISH). UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.
- 6082 Robins, C. H.
A digital computer technique for qualitative analysis of complex samples from their neutron-induced γ -ray activities.
 Thesis. Virginia Polytechnic Institute, 142p. (1967).
 (ENGLISH). VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG, VIRGINIA.
- 6083 Michelsen, O. B., Steinnes, E.
Determination of copper in geological material by neutron activation and γ , γ coincidence spectrometry.
Talanta, 15, 574-578 (1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 6084 Cram, S. P., Brownlee, J. L.
Neutron activation analysis as a quantitative elemental gas chromatographic detector.
J. Gas Chromatography, 6, 313-320 (1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING AND THE MATERIALS RESEARCH LABORATORY, UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS.
- 6085 Cram, S. P., Brownlee, J. L.
The gas chromatographic resolution of γ -ray scintillation spectra for the neutron activation analysis of short-lived isotopes.
J. Gas Chromatography, 6, 305-313 (1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING AND THE MATERIALS

ACTIVATION ANALYSIS—BIBLIOGRAPHY

RESEARCH LABORATORY, UNIVERSITY
OF ILLINOIS, URBANA, ILLINOIS.

6086 Nadkarni, R. A., Haldar, B. C.

**Determination of silicon,
phosphorus and sulfur in alloy
steel by neutron activation
analysis.**

Anal. Chim. Acta, **42**, 279–284
(August 1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INORGANIC AND
NUCLEAR CHEMISTRY LABORATORY,
INSTITUTE OF SCIENCE, BOMBAY,
INDIA.

6087 Yule, H. P.

**Computation of lithium–drifted
germanium detector peak areas for
activation analysis and gamma ray
spectrometry.**

Anal. Chem., **40**, No. 10, 1480–1486
(August 1968).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

6199 Bando, S.

**Activation analysis of the
impurities in aluminum. The
qualities of irradiation sample
container materials, and the
problems.**

Genshiryoku Kogyo, **13**, No. 8,
44–48 (1967).

(JAPANESE). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKYO, JAPAN.

6200 Gureev, E. S., Islamov, T.,
Miranskii, I. A., Muminova, M.
F., Miroshnikov, V. S.

**Rhenium determination by
neutron–activation methods.**

*Izv. Akad. Nauk SSR, Ser.
Fiz.–Mat. Nauk*, **11**, No. 6, 65–67
(1967).

(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT, RUSSIA.

6201 Sattarov, M., Talanin, Y. N.,
Yunusov, M.

**Silicon determination in a
synthetic corundum by activation
methods using 14.5 MeV neutrons.**

*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.–Mat. Nauk*, **11**, No. 6, 50–53
(1967).

(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT, RUSSIA.

6202 Bujdoso, E., Miskei, M.

**Radiochemical separation of Ag,
Au, Cd, Co, Fe, In, and Zn
present as trace impurities in
gallium.**

Kohasz. Lapok, **99**, 281–283 (1966).
(HUNGARIAN). FEMIPARI KUTATO
INTEZET, BUDAPEST, HUNGARY.

6203 Bujdoso, E., Miskei, M., Ormos, G.

**Determination of some trace
contaminants in high purity
gallium and gallium arsenide by
neutron activation analysis.**

Kohasz. Lapok, No. 5, 236–240
(1967).

(HUNGARIAN). FEMIPARI KUTATO
INTEZET, BUDAPEST, HUNGARY.

6204 Puerto Rico Nuclear Center

Activation analysis of aluminum.
PRNC–104, 91–95 (July 1967).

(ENGLISH). PUERTO RICO NUCLEAR
CENTER.

6205 Puerto Rico Nuclear Center

**The rapid separation of ⁴⁶Sc in
neutron activation analysis.**
PRNC–104, 96–98 (July 1967).

(ENGLISH). PUERTO RICO NUCLEAR
CENTER.

6206 Puerto Rico Nuclear Center

**Activation analysis of Mn in
biological samples.**
PRNC–104, 99 (July 1967).

(ENGLISH). PUERTO RICO NUCLEAR
CENTER.

6207 Puerto Rico Nuclear Center

**Modified ion exchange method for
separating Cu, Fe, and Zn from Sc
and the rare earths.**

PRNC–104, 102–106 (July 1967).
(ENGLISH). PUERTO RICO NUCLEAR
CENTER.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6208 Bennett, J. H., Manuel, O. K.
Iodine abundances in deep-sea sediments.
J. Geophys. Res., **73**, 2302–2303
 (March 15, 1968).
 (ENGLISH). CHEMISTRY DEPARTMENT,
 UNIVERSITY OF MISSOURI, ROLLA,
 MISSOURI.
- 6209 Gordus, A. A., Fink, W. C., Hill,
 M. E., Purdy, J. C., Wilcox, T.
 R.
**Identification of the geologic
 origins of archaeological
 artifacts. An automated method of
 Na and Mn neutron activation
 analysis.**
Archaeology, **10**, 87–96 (1967).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, THE UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 6210 Jervis, R. E.
**Present status of activation
 analysis applications in
 criminalistics.**
Radioisotopes (Tokyo), **17**, 18–32
 (January 1968).
 (ENGLISH). DEPARTMENT OF
 CHEMICAL ENGINEERING AND APPLIED
 CHEMISTRY, UNIVERSITY OF TORONTO,
 TORONTO, CANADA.
- 6211 Todd, A. P., Thorpe, M. E. C.,
 Rosenoer, V. M.
**Tissue copper determinations by
 neutron activation analysis.**
J. Clin. Pathol., **20**, 276–279 (May
 1967).
 (ENGLISH). DEPARTMENT OF
 PHYSICS, MEDICINE, AND
 PHARMACOLOGY, THE ROYAL FREE
 HOSPITAL, LONDON, ENGLAND.
- 6212 Johansen, O., Steinnes, E.
**Reactor cross-section of the
 reaction potassium-41 (neutron,
 alpha particle) chlorine-38 and
 its interference in activation
 analysis.**
Radiochim. Acta, **9**, No. 1, 47–48
 (1968).
 (ENGLISH). ISOTOPLABORATORIENE,
 INSTITUTT FOR ATOMENERGI,
 KJELLER, NORWAY.
- 6213 Boudin, A., Hanappe, E.
**Use of hafnium-180m for activation
 analysis of hafnium.**
Radiochim. Acta, **8**, No. 4, 188–191
 (1967).
 (FRENCH) (GERMAN AND ENGLISH
 SUMMARIES). SERVICE DE GEOLOGIE
 ET GEOCHIMIE NUCLEAIRES,
 UNIVERSITE LIBRE DE BRUXELLES,
 BELGIUM.
- 6214 Tandon, S. N., Wasson, J. T.
**Neutron activation determination
 of indium in meteorites.**
Radiochim. Acta, **8**, No. 4, 184–188
 (1967).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). DEPARTMENT OF
 CHEMISTRY AND INSTITUTE OF
 GEOPHYSICS AND PLANETARY PHYSICS,
 UNIVERSITY OF CALIFORNIA, LOS
 ANGELES, CALIF.
- 6215 El-Sherif, A., Alian, A., Allam,
 D., David, N.
**Activation analysis of gallium
 using solvent extraction.**
Radiochim. Acta, **8**, No. 4, 181–184
 (1967).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). NUCLEAR CHEMISTRY
 DEPARTMENT, ANALYTICAL CHEMISTRY
 DIVISION, ATOMIC ENERGY
 ESTABLISHMENT, CAIRO, U.A.R.
- 6216 Rygaert, J., Beaudet, C.
**Portable apparatus for
 radiochemical analysis.**
Kerntechnik, **10**, 92–97 (February
 1968).
 (GERMAN AND ENGLISH). SOCIETE
 D'ETUDES DE RECHERCHES ET
 D'APPLICATIONS POUR L'INDUSTRIE
 (SERA), BRUXELLES, BELGIUM.
- 6217 Gordus, A. A.
**Quantitative non-destructive
 neutron activation analysis of
 silver in coins.**
Archaeometry, **10**, 78–86 (1967).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, THE UNIVERSITY OF
 MICHIGAN, ANN ARBOR, MICHIGAN.
- 6218 Adams, F., Hoste, J.
Some new developments in

ACTIVATION ANALYSIS – BIBLIOGRAPHY

activation analysis.

Kernteknik, **10**, 98–102 (February 1968).

(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, UNIVERSITY OF GHENT, BELGIUM.

6219 Energie Nucleaire

Activation analysis in France today.

Energ. Nucl. (Paris), **10**, 29–34 (January–February 1968).

(FRENCH) (ENGLISH SUMMARY). COMMISSION D'ETABLISSEMENT DES METHODES D'ANALYSE DU COMMISSARIAT A L'ENERGIE ATOMIQUE, FRANCE.

6220 Tomura, K., Higuchi, H., Miyaji, N., Onuma, N., Hamaguchi, H.
Determination of rare-earth elements in rock samples by neutron activation analysis with a lithium-drifted germanium detector after chemical group separation.

Anal. Chim. Acta, **41**, 217–228 (1968).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). THE INSTITUTE FOR ATOMIC ENERGY, RIKKYO UNIVERSITY, YOKOSUKA AND DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.

6221 U. S. Atomic Energy Commission
Man-made element to aid in search for minerals, oil, groundwater.

USAEC News Release L-182, 4p. (August 6, 1968).

(ENGLISH). U.S. ATOMIC ENERGY COMMISSION, WASHINGTON, D.C.

6222 Senftle, F. E., Hoyte, A. F., Martinez, P., Mitchell, C.
Neutron activation techniques for mineral exploration.

TID-23668, 51p. (August 31, 1966).

(ENGLISH). U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.

6223 Ordogh, M., Miriszlai, E.

Determination of sodium and potassium by neutron activation

analysis for the investigation of the electrolyte-balance of the inner ear.

KFKI-6/1967, 17p. (April 10, 1967).

(ENGLISH). HUNGARIAN ACADEMY OF SCIENCES, CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.

6224 Gordus, A. A.

Neutron activation analysis of almost any old thing.

Chemistry, **41**, No. 5, 8–15 (May 1968).

(ENGLISH). THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

6225 Guinn, V. P.

Applications of neutron activation analysis in scientific crime detection.

GA-8013, 62p. (October 20, 1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

6226 Cali, J. P., Lowe, L. F., Reilly, E. M., Thompson, H. D.

Detailed procedures for the determination of several elements by neutron activation analysis.

ERD-CRRC-TM-57-103, 29p. (February 1957).

(ENGLISH). AIR FORCE CAMBRIDGE RESEARCH CENTER, BEDFORD, MASS.

6227 Gordus, A. A., Wright, G. A., Griffin, J. B.

Obsidian sources characterized by neutron activation analysis.

Science, **161**, 382–384 (26 July 1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY AND MUSEUM OF ANTHROPOLOGY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

6228 Hogdahl, O. T.

Distribution of the rare earth elements in sea water.

NATO Research Grant No. 203, Semiannual Progress Report No. 6, October 1, 1967 to March 31, 1968, 23p. (April 30, 1968).

ACTIVATION ANALYSIS – ACCESSION NUMBERS

(ENGLISH). CENTRAL INSTITUTE FOR
INDUSTRIAL RESEARCH, OSLO,
BLINDERN, NORWAY.

(1967).

(DUTCH). REACTOR CENTRUM,
NEDERLAND.

6229 Martin, T. C., Rhodes, J. R.,
Waters, J. B.
**Continuous, on-line, nuclear
analysis measurements in process
control applications.**
ORO-2980-16, 88p. (July 21, 1967).
(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.

6294 Kukula, F., Krivanek, M.
**Determination of mercury by
activation analysis.**
Isotopenpraxis, 4, 57-59 (February
1968).
(RUSSIAN). INSTITUTE FOR NUCLEAR
RESEARCH, REZ, CZECHOSLOVAKIA.

6241 Gordus, A. A.
**Activation analysis, artefacts and
art.**
New Scientist, 129-131 (17 October
1968).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

6295 Lobanov, E. M., Khotamov, S.,
Kist, A. A.
**Determination of certain
rare-earth elements in the ash of
plants and soils by the method of
neutron activation.**
Dokl. Akad. Nauk Tadzh. SSR, 9,
12-16 (1966).
(RUSSIAN). UMAROV PHYSICS
ENGINEERING INSTITUTE, DUSHANBE,
USSR, NUCLEAR PHYSICS INSTITUTE,
TASHKENT.

6242 Gordus, A. A.
**Rapid non-destructive analysis of
the silver content of coins using
neutron activation.**
The Numismatic Circular, LXXVI,
No. 3, 1p. (March 1968).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

6297 Perovskii, A. P.
**Determination of the concentration
of hafnium and zirconium. III.**
Radiokhimiya, 10, 70-74 (1968).
(RUSSIAN). RUSSIA.

6244 Bacharach, J. L., Gordus, A. A.
**Studies on the fineness of silver
coins.**
*J. Economic and Social History of
the Orient*, XI, Part III, 298-317
(1968).
(ENGLISH). SEATTLE, WASHINGTON
AND ANN ARBOR, MICHIGAN.

6298 Rakovskii, E. E., Serebryanyi, B.
L.
**Neutron activation determination
of gold in rocks using
substoichiometric separation.**
Radiokhimiya, 10, No. 1, 75-81
(1968).
(RUSSIAN). RUSSIA.

6281 Fourcy, A.
**Biology and neutronic radiation.
The agronomical applications of
analysis by radioactivation.**
Ind. At., 11, No. 11-12, 39-46
(1967).
(FRENCH). UNIVERSITY GRENOBLE,
FRANCE.

6301 Sattarov, M., Talanin, Y. N.,
Khalikov, T.
**Determination of some elements in
coal by neutron activation
analysis at 14.5 MeV.**
*Izv. Akad. Nauk Uz. Ssr, Ser.
Fiz-Mat. Nauk*, 12, No. 2, 74-77
(1968).
(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT, USSR.

6288 Goedkoop, J. A.
**Applications of neutrons in
chemistry.**
RCN Meded., No. 29, 131-142

6302 Burrows, B. A., Mulvey, P. F.,
Cooper, R. D., Cardarelli, J. A.
Bremsstrahlung activation analysis

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- of iodine and mercury.**
Strahlentherapie, Sonderbaende,
65, 365–371 (1967).
- (ENGLISH) (FRENCH AND GERMAN SUMMARIES). MEMORIAL DEPARTMENT OF CLINICAL RESEARCH, UNIVERSITY HOSPITAL, INC., RADIOISOTOPE AND MEDICAL SERVICES, BOSTON VETERANS ADMINISTRATION HOSPITAL, DEPARTMENT OF MEDICINE, BOSTON UNIVERSITY MEDICAL CENTER, BOSTON, AND U.S. ARMY LABORATORIES, NATICK, MASS.
- 6303 Frischauf, H., Altmann, H.
Determination of iodine in total serum and in serum albumin by neutron activation analysis.
Strahlentherapie, Sonderbaende,
65, 372–376 (1967).
- (GERMAN) (ENGLISH AND FRENCH SUMMARIES). REAKTORZENTRUM SEIBERSDORF, AUSTRIA.
- 6304 Comar, D., Lepoec, C., Kellershohn, C.
Automatic determination of several trace elements in biological media by radioactivation analysis. Applications to several physiopathologic problems.
Strahlentherapie, Sonderbaende,
65, 350–364 (1967).
- (FRENCH) (ENGLISH AND GERMAN SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTEMENT DE BIOLOGIE SERVICE HOSPITALIER FREDERIC JOLIOT, ORSAY, FRANCE.
- 6305 Guinn, V. P.
Nuclear methods.
Trace Characterization. Chemical and Physical, 337–346, Meinke, W.W. and Scribner, B.F. (Eds.), National Bureau of Standards, Washington, D.C. (1967).
- (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 6306 Smales, A. A.
Radioactivity techniques in trace characterization.
Trace Characterization. Chemical and Physical, 307–336, Meinke, W.W. and Scribner, B.F. (Eds.), National Bureau of Standards, Washington, D.C. (1967).
- (ENGLISH). ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, GREAT BRITAIN.
- 6307 Lee, J., Jervis, R. E.
Detection of pollutants in airborne particulates by activation analysis.
Trans. Amer. Nucl. Soc., 11, 50–51 (June 1968).
- (ENGLISH). UNIVERSITY OF TORONTO, TORONTO, ONT., CANADA.
- 6308 Rayudu, G. V. S., Tiefenbach, B., Jervis, R. E.
Neutron activation determination of trace mercury in Canadian foods.
Trans. Amer. Nucl. Soc., 11, 54–55 (June 1968).
- (ENGLISH). UNIVERSITY OF TORONTO, TORONTO, ONT., CANADA.
- 6309 Strain, W. H., Rob, C. G., Pories, W. J., Childers, R. C., Hennessen, J. A., Thompson, M. F., Graber, F. M.
Activation analysis of normal and atherosclerotic aortas from rats and man.
Trans. Amer. Nucl. Soc., 11, 62–63 (June 1968).
- (ENGLISH). UNIVERSITY OF ROCHESTER, NEW YORK, WRIGHT-PATTERSON AFB, OHIO AND GULF GENERAL ATOMIC.
- 6310 Dooley, J. A., Young, M. H., Gorrell, J. H., Polishuk, P., Singhal, N. S., Thompson, J. M.
New developments of WPAFB in computerized spectral analysis and isotope identification.
Trans. Amer. Nucl. Soc., 11, 73–74 (June 1968).
- (ENGLISH). WRIGHT-PATTERSON AIR FORCE BASE, OHIO, LOUISIANA STATE UNIVERSITY AND OHIO STATE UNIVERSITY.
- 6311 Krishnan, S. S., Perkons, A. K., Erickson, N. E.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**Case applications of forensic
activation analysis in Canada.**

Trans. Amer. Nucl. Soc., **11**, 79
(June 1968).

(ENGLISH). CENTRE OF FORENSIC
SCIENCES, TORONTO, ONT., CANADA.

- 6312 Pillay, K. K. S., Thomas, C. C.,
Sondel, J. A., Thomas, R. C.,
Didising, D., Hart, D. M.
**Applications of rare-earth tracers
to gunpowder residues.**
Trans. Amer. Nucl. Soc., **11**, 79-80
(June 1968).

(ENGLISH). WESTERN NEW
YORK-NUCLEAR RESEARCH CENTER,
BUFFALO, VA HOSPITAL, BUFFALO,
STATE UNIVERSITY OF NEW YORK AT
BUFFALO AND MOORE BUSINESS FORMS.

- 6313 Lukens, H. R.
**Forensic activation analysis.
Bullet lead.**
Trans. Amer. Nucl. Soc., **11**, 80-81
(June 1968).

(ENGLISH). GULF GENERAL ATOMIC,
SAN DIEGO, CALIF.

- 6314 Rayudu, G. V. S., Tiefenbach, B.,
Jervis, R. E.
**Neutron activation typing of
seizure heroin capsules.**
Trans. Amer. Nucl. Soc., **11**, 81-82
(June 1968).

(ENGLISH). UNIVERSITY OF
TORONTO, TORONTO, ONT., CANADA

- 6315 Perkons, A. K., Jervis, R. E.
**Applications of high-resolution
Ge(Li) gamma spectrometry in
criminalistics.**
Trans. Amer. Nucl. Soc., **11**, 82-83
(June 1968).

(ENGLISH). CENTRE OF FORENSIC
SCIENCES AND UNIVERSITY OF
TORONTO, TORONTO, ONT., CANADA.

- 6316 Churchill, T. R.
**Applications of a computer-controlled
neutron activation analysis
system.**
Trans. Amer. Nucl. Soc., **11**, 94-95
(June 1968).

(ENGLISH). ATOMIC ENERGY OF
CANADA, LTD., OTTAWA, CANADA.

- 6317 Veal, D. J., Armstrong, F. E.
**Photonuclear activation analysis
for strontium with a ⁶⁰Co source.**
Trans. Amer. Nucl. Soc., **11**, 95-96
(June 1968).

(ENGLISH). U.S. BUREAU OF MINES,
BARTLESVILLE, OKLAHOMA.

- 6318 Crambes, M. R., Nargolwalla, S.
S., Suddueth, J. E.
**Self-absorption corrections in
photopeak analysis of gamma
photons from nuclear emission and
positron annihilation in 14 MeV
neutron activation analysis.**

Trans. Amer. Nucl. Soc., **11**, 97-98
(June 1968).

(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

- 6319 Bouchey, G. D., Gage, S. J.
**Utilization of the University of
Texas TRIGA reactor for neutron
activation analysis service.**
Trans. Amer. Nucl. Soc., **11**, 287
(June 1968).

(ENGLISH). UNIVERSITY OF TEXAS,
AUSTIN, TEXAS.

- 6320 Greene, R. E.
**Tracing with activable tracers.
Part I.**
Isotop. Radiat. Technol., **5**,
269-277 (Summer 1968).

(ENGLISH). USA.

- 6321 Lambrecht, R. M., Rack, E. P.
**Complicating role of reactions
induced by isomeric transitions
in neutron activation analysis
for bromine-82 and iodine-130.**
Analyst (London), **93**, No. 1109,
550-551 (1968).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
NEBRASKA, LINCOLN, NEBRASKA.

- 6322 Schmidt, D.
**Method for the determination of
traces of tin in rocks by neutron
activation analysis.**
Thesis. Universitat Marburg, 86p.
(1968).

(GERMAN). NATURWISSENSCHAFTLICHEN
FAKULTAT DER PHILIPPS-UNIVERSIT
AT MARBURG/LAHN, GERMANY.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6323 Lanfranco, G., Bianchini, A.
Neutron radio activation analysis of "six nine" zinc.
Chim. Ind. (Milan), **50**, No. 3, 332–343 (1968).
 (ITALIAN). CENTRO RICERCHE METALLURGICHE, TORINO, ITALY.
- 6324 Coulomb, R., Coquema, C., Goldsztein, M., Schiltz, J. C.
Use of chromatography and computers in neutron activation analysis – application to quantitative analysis of lanthanum, samarium, dysprosium, europium in lavas of the Chaine des Puys.
Bull. Soc. Fr. Mineral. Cristallogr., **91**, No. 1, 75–84 (1968).
 (FRENCH) (ENGLISH SUMMARY). COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE.
- 6325 Barwinski, A., Gorski, L., Janczyszyn, J., Kwiecinski, S., Loska, L., Owskiak, T.
Further development of automatic activation analysis system (AAAS) with fast neutrons.
Isotopenpraxis, **4**, 52–56 (February 1968).
 (ENGLISH). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, AND INSTITUTE OF NUCLEAR RESEARCH, CRACOW, POLAND.
- 6326 D'Eustachio, A. J.
Biochemical analysis.
Anal. Chem., **40**, 19R–33R (April 1968).
 (ENGLISH). E.I. DU PONT DE NEMOURS AND CO., INC., WILMINGTON, DELAWARE.
- 6327 Lyon, W. S., Ricci, E., Ross, H. H.
Nucleonics.
Anal. Chem., **40**, 168R–174R (April 1968).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 6328 Hahn, K. J., Tuma, D. J., Sullivan, J. L.
Rapid and simple continuous radiochemical separation of copper, magnesium, zinc, and manganese in biological materials.
Anal. Chem., **40**, 974–976 (May 1968).
 (ENGLISH). MEDICAL RESEARCH, V.A. HOSPITAL, OMAHA, NEBRASKA.
- 6329 Peisach, M., Pretorius, R., Strebel, P. J.
Isotopic determination of ¹⁸O in gases by neutron time-of-flight spectrometry.
Anal. Chem., **40**, 850–853 (May 1968).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 6330 Korthoven, P. J. M.
RESOLF, a computer program for the analysis of gamma-ray spectra.
IS-1811, 63p. (April 1968).
 (ENGLISH). IOWA STATE UNIVERSITY, AMES, IOWA.
- 6331 Chakraborty, P. P., Ganguly, A. K.
Use of short-lived thermal neutron induced radioactivity for rapid non-destructive analysis.
B.A.R.C./H.P./TM-21, 109p. (August 1968).
 (ENGLISH). HEALTH PHYSICS DIVISION, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA.
- 6332 Lutz, G. J., Boreni, R. J., Maddock, R. S., Meinke, W. W.
Activation analysis. A bibliography.
NBS Tech. Note 467, Part 1, 511p., Part 2, 185p. (September 1968).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 6333 Guinn, V. P.
The current status of forensic activation analysis.
Trans. Amer. Nucl. Soc., **11**, 78–79 (June 1968).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). GULF GENERAL ATOMIC,
SAN DIEGO, CALIF.

6334 Ruzicka, J., Stary, J.

Substoichiometry in radiochemical analysis.

International Series of Monographs in Analytical Chemistry, Vol. 30, 151p. (1968).

(ENGLISH). DEPARTMENT OF NUCLEAR CHEMISTRY, TECHNICAL UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.

6335 Haerdi, W., Balsenc, L., Monnier, D.

Nondestructive determination of hafnium by neutron activation and γ spectrometry of ^{179m}Hf and ^{178m}Hf (respective periods. 19.0 and 4.8 sec.). Theoretical study. Applications on zirconium and various alloys.

J. Radioanal. Chem., 1, No. 1, 51-59 (January 1968).

(FRENCH) (ENGLISH SUMMARY). LABORATORIES DE CHIMIE ANALYTIQUE, ECOLE DE CHIMIE DE L'UNIVERSITE, GENEVE, SWITZERLAND.

6337 Krivanek, M., Kukula, F., Vins, V.

Determination of some impurities in gallium by neutron activation.

J. Radioanal. Chem., 1, 219-224 (May 1968).

(FRENCH) (ENGLISH SUMMARY). INSTITUT DES RECHERCHES NUCLEAIRES, ACADEMIE DES SCIENCES TCHECHOSLOVAQUE, REZ, CZECHOSLOVAKIA.

6339 Naude, W. J., Peisach, M.,

Pretorius, R., Strebel, P. J.

The determination of carbon, nitrogen and oxygen in gases by neutron time-of-flight spectrometry.

J. Radioanal. Chem., 1, 231-241 (May 1968).

(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.

6340 Cuypers, M., Cuypers, J.

Gamma ray spectra and

sensitivities for 14 MeV neutron activation analysis.

J. Radioanal. Chem., 1, 243-264 (May 1968).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

6341 Fritze, K., Gietz, R. J.

Contamination problems in the trace analysis for protein bound metals.

J. Radioanal. Chem., 1, 265-268 (May 1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY, MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.

6343 Haskin, L. A., Wildeman, T. R.,

Haskin, M. A.

An accurate procedure for the determination of the rare earths by neutron activation.

J. Radioanal. Chem., 1, 337-348 (July 1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.

6344 Lukens, H. R.

A neutron activation analysis method for the determination of Be, Li, B, F, and Pb.

J. Radioanal. Chem., 1, 349-354 (July 1968).

(ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIFORNIA.

6346 De Wet, W. J., Turkstra, J.

The determination of $^{235}\text{U}/^{238}\text{U}$ ratios by activation analysis utilizing high resolution γ -spectrometry.

J. Radioanal. Chem., 1, 379-387 (September 1968).

(ENGLISH). NATIONAL NUCLEAR RESEARCH CENTRE, PELINDABA, PRETORIA, SOUTH AFRICA.

6348 Doshi, G. R.

Alkaline earth phosphate as carrier for the determination of trace elements in seawater.

Indian J. Chem., 5, 580-581

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (November 1967).
(ENGLISH). HEALTH PHYSICS
DIVISION, BHABHA ATOMIC RESEARCH
CENTRE TROMBAY, BOMBAY, INDIA.
- 6349 Dorward, R. C.
**Splat cooled materials for neutron
activation analysis standards.**
J. Nucl. Mater., **27**, No. 2,
235–236 (1968).
(ENGLISH). DEPARTMENT OF
METALLURGY AND MATERIALS SCIENCE,
MCMASTER UNIVERSITY, HAMILTON,
ONTARIO, CANADA.
- 6350 Furr, A. K., Robinson, E. L.,
Robins, C. H.
**A spectrum stripping technique for
qualitative activation analysis
using monoenergetic gamma
spectra.**
Nucl. Instrum. Methods, **63**, No. 2,
205–209 (1968).
(ENGLISH). VIRGINIA POLYTECHNIC
INSTITUTE, BLACKSBURG, VIRGINIA.
- 6351 Oka, Y., Kato, T.
**An internal-monitor method for the
activation analysis of silver in
palladium with thermal neutrons.**
Bull. Chem. Soc. Japan, **41**,
329–333 (February 1968).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
TOHOKU UNIVERSITY, KATAHIRA-CHO,
SENDAI, JAPAN.
- 6352 Tsuji, H., Kusaka, Y.
**Radioactivation analysis of
silicon and aluminum with 14 MeV
neutrons.**
Bunseki Kagaku, **17**, No. 7, 864–870
(1968).
(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, KONAN UNIVERSITY,
HIGASHINADA-KU, KOBE-SHI, JAPAN.
- 6353 Wyttenbach, A., Barthe, P.,
Martin, E. P.
**The content of arsenic in the hair
in a case of acute lethal arsenic
poisoning.**
J. Forensic Science Society, **7**,
No. 4, 194–197 (October 1967).
(ENGLISH). EIDG. INSTITUT FÜR
REAKTORFORSCHUNG, WURENLINGEN,
UNIT OF RENAL DISEASES,
UNIVERSITÄTSKLINIK BASEL AND
KRIMINALTECHNISCHE ABTEILUNG DER
STAATSANWALTSCHAFT, BASEL,
SWITZERLAND.
- 6354 Massart, D. L., Hoste, J.
**Determination of lanthanum in
titania by activation analysis.**
Anal. Chim. Acta, **41**, 378–380 (May
1968).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.
- 6355 Daiev, C., Alexandrov, S., Daieva,
L.
**Non-destructive activation
analysis determination of micro
and ultramicro amounts of indium
in high purity thallium and
thallium compounds.**
Z. Anal. Chem., **239**, No. 6,
369–377 (1968).
(GERMAN) (ENGLISH SUMMARY).
CHEMISCHE FAKULTÄT, UNIVERSITÄT,
KL. OCHRIDSKI, SOFIA, BULGARIA.
- 6356 Dugain, F., Castre, C., Beyssier,
B.
**Analysis of chromium by
 γ -spectrometry after separation
of the radioelements by ion
exchange.**
Anal. Chim. Acta, **42**, 39–50 (July
1968).
(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). COMPAGNIE PECHINEY
L.R.M., GRENOBLE, FRANCE.
- 6357 Perdijon, J.
**Utilization of neutron generators
for activation analysis in the
chemical and petroleum
industries.**
Chim. Ind. (Paris), **97**, 305–309
(February 1967).
(FRENCH) (ENGLISH SUMMARY).
INGENIEUR CIVIL DES MINES.
- 6358 Uken, E. A., Watterson, J. I. W.,
Knight, A., Sellschop, J. P. F.
The determination of gold in ores

ACTIVATION ANALYSIS—ACCESSION NUMBERS

and solutions by activation analysis with a neutron generator.

Intern. J. Appl. Radiation Isotopes, **19**, No. 8, 615–623 (1968).

(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). NATIONAL INSTITUTE FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA.

- 6359 Lambert, J. P. F., Simpson, R. E.
Note on the analysis of nutrient broth by neutron activation analysis.

J. Assn. Offic. Anal. Chem., **51**, No. 5, 999–1002 (1968).

(ENGLISH). DIVISION OF FOOD CHEMISTRY AND TECHNOLOGY, FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C.

- 6360 Cooper, J. A., Rancitelli, L. A., Perkins, R. W., Haller, W. A., Jackson, A. L.
An anticoincidence-shielded Ge(Li) gamma-ray spectrometer and its application to neutron activation analysis.

BNWL-SA-2009, 15p. (August 2, 1968).

(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.

- 6361 Duce, R. A., Woodcock, A. H., Moyers, J. L.
Variation of ion ratios with size among particles in tropical oceanic air.

Tellus, **XIX**, No. 3, 369–379 (1967).

(ENGLISH) (RUSSIAN SUMMARY). HAWAII INSTITUTE OF GEOPHYSICS AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF HAWAII, HONOLULU.

- 6362 Duce, R. A., Winchester, J. W., Van Nahl, T. W.
Iodine, bromine, and chlorine in winter aerosols and snow from Barrow, Alaska.

Tellus, **XVIII**, No. 2, 238–248 (1966).

(ENGLISH) (RUSSIAN SUMMARY).

DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASS.

- 6363 Winchester, J. W., Duce, R. A.
Coherence of iodine and bromine in the atmosphere of Hawaii, Northern Alaska, and Massachusetts.

Tellus, No. 2, 287–292 (1966).

(ENGLISH) (RUSSIAN SUMMARY). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MIT, CAMBRIDGE, MASS.

- 6364 Winchester, J. W., Zoller, W. H., Duce, R. A., Benson, C. S.
Lead and halogens in pollution aerosols and snow from Fairbanks, Alaska.

Atmospheric Environment, **1**, 105–119 (1967).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS MIT, CAMBRIDGE, MASS.

- 6365 Lininger, R. L., Duce, R. A., Winchester, J. W., Matsón, W. R.
Chlorine, bromine, iodine, and lead in aerosols from Cambridge, Massachusetts.

J. Geophysical Research, **71**, No. 10, 2457–2463 (May 15, 1966).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

- 6366 Khristianov, V. K., Vernadskii, V. I.

Photoneutron method of isotopic analysis of hydrogen in natural waters.

ORNL-TR-1925, 6p. (Translated by Martha Gerrard, Oak Ridge National Laboratory from *Isotopenpraxis*, **3**, 235–237 (1967).

(ENGLISH TRANSLATION). GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, INSTITUTE OF THE USSR ACADEMY OF SCIENCES, MOSCOW, RUSSIA.

- 6367 Garbrah, B. W., Whitley, J. E.
Assessment of neutron capture γ -ray analysis.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Intern. J. Appl. Radiation Isotopes*, **19**, 605–614 (1968).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, GLASGOW, SCOTLAND.
- 6368 Knight, A., Watterson, J. I. W., Uken, E. A., Faure, P. K.
The determination of beryllium by irradiation with gamma rays.
NIM-152, 21p. (March 22, 1967).
(ENGLISH). NATIONAL INSTITUTE FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA.
- 6369 Wolfle, R., Herperts, U., Herr, W.
An improved, selective γ, γ coincidence arrangement for non-destructive determination of submicro traces of copper in the high-purity metals Be, Bi, Pb, Se, Sn, and Tl.
Z. Anal. Chem., **233**, 241–252 (1968).
(GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR KERNCHEMIE DER UNIVERSITÄT KÖLN UND ARBEITSGRUPPE, INSTITUT FÜR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE JÜLICH, GERMANY.
- 6370 Henkelmann, R., Aumann, D. C., Born, H. J.
Activation analysis oxygen determination with fast reactor neutrons.
Z. Anal. Chem., **233**, 1–14 (1968).
(GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MÜNCHEN, GERMANY.
- 6371 Kegel, G. H. R.
Photoactivation of cerium, neodymium, samarium, and gadolinium.
AD-664347, 44p. (October 1967).
(ENGLISH). CONTROLS FOR RADIATION INC., CAMBRIDGE, MASS.
- 6372 Bluysen, H., Smith, P. B.
Determination of the silver content of Greek coins by neutron activation.
Archaeometry, **5**, 113–118 (1962).
(ENGLISH). FYSISCH LABORATORIUM DER RIJKSUNIVERSITEIT TE UTRECHT.
- 6373 Palmer, A. R.
Studies in computer coupled radiochemical analysis. Part 1. Peak location and peak energy measurement in scintillation spectrometry.
AAEC/TM-437, 26p. (February 1968).
(ENGLISH). AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS.
- 6374 Stalnaker, N. D., Kahn, M., Kenna, B. T.
Bibliography on the determination of nitrogen by activation analysis.
SC-R-68-1723, 20p. (April 1968).
(ENGLISH). SANDIA CORPORATION, ALBUQUERQUE, NEW MEXICO.
- 6375 Robertson, D. E., Rancitelli, L. A., Perkins, R. W.
Multielement analysis of seawater, marine organisms and sediments by neutron activation without chemical separations.
BNWL-SA-1776, 74p. (May 15, 1968).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 6376 Coleman, R. F., Weston, N. T.
A case concerning neutron activation analysis of glass.
J. Forensic Science Society, **8**, No. 1, 32–33 (January 1968).
(ENGLISH). UKAEA, ALDERMASTON, BERKSHIRE AND HOME OFFICE FORENSIC SCIENCE LABORATORY, BIRMINGHAM, ENGLAND.
- 6377 Coleman, R. F.
The application of neutron activation analysis for forensic science.
J. Forensic Science Society, **6**, No. 1, 19–27 (January 1966).
(ENGLISH). UNITED KINGDOM ATOMIC ENERGY AUTHORITY, ALDERMASTON, BERKSHIRE, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6378 Wyttenbach, A., Hermann, A.
The quantitative nondestructive analysis of silver coins by neutron activation.
Archaeometry, **9**, 139–147 (1966).
 (ENGLISH). EIDG. INSTITUT FÜR REAKTORFORSCHUNG, WURENLINGEN, SWITZERLAND.
- 6379 Tomura, K., Higuchi, H., Takahashi, H., Onuma, N., Hamaguchi, H.
Simultaneous determination of rubidium and cesium in rock samples by neutron activation analysis with a lithium-drifted germanium detector after chemical group-separation.
Anal. Chim. Acta, **43**, No. 3, 523–526 (1968).
 (ENGLISH). THE INSTITUTE FOR ATOMIC ENERGY, RIKKYO UNIVERSITY, YOKOSUKA, DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.
- 6380 Lombard, S. M., Isenhour, T. L.
Neutron capture γ ray activation analysis using lithium drifted germanium semiconductor detectors.
Anal. Chem., **40**, No. 13, 1990–1994 (1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON.
- 6381 Sterlinski, S.
Analysis of digital data from a multi channel pulse height analyzer on γ ray total absorption peaks in activation analysis.
Anal. Chem., **40**, No. 13, 1995–1998 (1968).
 (ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, DEPARTMENT OF CHEMISTRY, WARSAW, POLAND.
- 6382 Marsh, R. H., Allie, W.
High precision activation analysis of sodium with an internal standard technique.
Anal. Chem., **40**, No. 13, 2037–2040 (1968).
- (ENGLISH). FORD MOTOR CO., SCIENTIFIC RESEARCH STAFF, DEARBORN, MICHIGAN.
- 6383 Neirinckx, R., Adams, F., Hoste, J.
Determination of impurities in titanium and titanium dioxide by neutron activation analysis. I. Simultaneous determination of 16 trace elements in titanium.
Anal. Chim. Acta, **43**, No. 3, 369–380 (1968).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, BELGIUM.
- 6384 Romanetti, R.
Programmer for automatic gamma spectrometry.
 CEA-R-3452, 44p. (April 1968).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE CADARACHE, FRANCE.
- 6385 Rausch, H., Salamon, A.
Activation analysis for selenium and tellurium: Trace impurities in gallium, arsenic, and gallium arsenide.
Talanta, **15**, No. 9, 975–978 (1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). RESEARCH INSTITUTE FOR TELECOMMUNICATION AND TECHNICAL PHYSICS, HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY.
- 6386 Fisher, D. E.
Anomalous ^{40}Ar contents of iron meteorites.
J. Geophys. Res., **70**, No. 10, 2445–2452 (May 15, 1965).
 (ENGLISH). NUCLEAR REACTOR LABORATORY AND CENTER FOR RADIOPHYSICS AND SPACE RESEARCH, CORNELL UNIVERSITY, ITHACA, N.Y.
- 6387 Fireman, E. L., Fisher, D. E.
Uranium in the Sikhote-Alin meteorite and its relation to the lead method of age determination.
Nature, **192**, 644–645 (November 18, 1961).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). SMITHSONIAN
ASTROPHYSICAL OBSERVATORY,
CAMBRIDGE, MASS., AND DEPARTMENT
OF ENGINEERING PHYSICS, CORNELL
UNIVERSITY, ITHACA, N.Y.

CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, ONTARIO, CANADA.

6388 Ravetz, A.

**Neutron activation analysis of
silver in some late Roman copper
coins.**

Archaeometry, **6**, 46–55 (1963).

(ENGLISH). LEEDS UNIVERSITY,
ENGLAND.

6393 Nass, H. W., Kramer, H. H.

**Rapid determination of thorium air
filters by neutron-activation
analysis.**

UCRL-18140, 91–99.

(ENGLISH). UNION CARBIDE
CORPORATION, STERLING FOREST
RESEARCH CENTER, TUXEDO, N.Y.

6389 Rancitelli, L. A., Fisher, D. E.

**Potassium argon problem in iron
meteorites.**

J. Geophys. Res., **73**, No. 16,
5429–5437 (August 15, 1968).

(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y., AND INSTITUTE OF
MARINE SCIENCES, UNIVERSITY OF
MIAMI, MIAMI, FLORIDA.

6394 Dams, R., Hoste, J.

**Neutron activation analysis of
traces in electrolytic zinc
sulphate solutions. Part III.
Simultaneous determination of
tellurium, selenium, arsenic, and
antimony.**

Anal. Chim. Acta, **41**, 205–215 (May
1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCE, GHENT
UNIVERSITY, GHENT, BELGIUM.

6390 Fisher, D. E.

**Ages of the Sikhote-Alin iron
meteorite.**

Science, **139**, 752–753 (22 February
1963).

(ENGLISH). CORNELL UNIVERSITY,
ITHACA, AND BROOKHAVEN NATIONAL
LABORATORY, UPTON, N.Y.

6395 Dams, R., Hoste, J.

**Neutron activation analysis of
traces in electrolytic zinc
sulphate solutions. Part II.
Determination of molybdenum and
rhenium.**

Anal. Chim. Acta, **41**, 197–204 (May
1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.

6391 Bennyhoff, J. A., Heizer, R. F.

**Neutron activation analysis of
some Cuicuilco and Teotihuacan
pottery. Archaeological
interpretation of results.**

American Antiquity, **30**, No. 3,
348–349 (1965).

(ENGLISH). UNIVERSITY OF
ROCHESTER, ROCHESTER, N.Y., AND
UNIVERSITY OF CALIFORNIA,
BERKELEY, CALIF.

6396 Schweikert, E. A.

**On the possibility of using an
electromagnetic radioisotope
separator in conjunction with
charged-particle and
photon-activation analysis.**

Talanta, **15**, No. 8, 883–885
(1968).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

6392 Chung, K. S., Beamish, F. E.

**Direct determination of
submicrogram amounts of osmium
and ruthenium in sulfide ores by
neutron activation analysis.**

Anal. Chim. Acta, **43**, No. 3,
357–368 (1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF

6397 Malvano, R., Grosso, P., Zanardi,
M.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Single-step radiochemical separations by column procedures in activation analysis.

Anal. Chim. Acta, **41**, 251–258 (May 1968).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). CENTRO RICERCHE NUCLEARI, SORIN, SALUGGIA, ITALY.

6398 Van Grieken, R., Gijbels, R., Speecke, A., Hoste, J.

Internal standard activation analysis of silicon in steel.

Anal. Chim. Acta, **43**, No. 3, 381–395 (1968).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, BELGIUM.

6399 Rancitelli, L. A., Fisher, D. E., Funkhouser, J., Schaeffer, O. A.
Potassium argon dating of iron meteorites.

Science, **155**, 999–1000 (24 February 1967).

(ENGLISH). CORNELL UNIVERSITY, ITHACA, N.Y., INSTITUTE OF MARINE SCIENCES, UNIVERSITY OF MIAMI, MIAMI, FLORIDA AND STATE UNIVERSITY OF NEW YORK, STONY BROOK, N.Y.

6400 Broda, E.

Isotope dilution.

Chimia (Aarau), **21**, 8–15 (1967).

(GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR PHYSIKALISCHE CHEMIE, UNIVERSITÄT WIEN, AUSTRIA.

6401 Perkins, M., Rees, T. B.

Determination of traces of copper, arsenic and antimony in steels and steel oxides by neutron activation analysis.

AERE-AM-106, 16p. (March 1968).

(ENGLISH). ANALYTICAL SCIENCES DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE, ENGLAND.

6402 Lowe, K., Faure, P. K., Steele, T. W.

Compensating for flux variation in

neutron activation analysis.

NIM-177, 31p. (July 3, 1967).

(ENGLISH). NATIONAL INSTITUTE FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA.

6403 Braun, T., Bujdosó, E., Miskei, M.
Edge-punched card literature retrieval system for activation analysis.

J. Radioanal. Chem., **1**, 515–521 (November 1968).

(ENGLISH). INSTITUTE OF INORGANIC AND ANALYTICAL CHEMISTRY, L. EÖTVÖS UNIVERSITY, BUDAPEST, HUNGARY.

6404 Santos, G. G., Wainerdi, R. E.
Determination of silicon in rocks by fast neutron activation analysis using internal standards.

J. Radioanal. Chem., **1**, 509–514 (November 1968).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

6405 Crocket, J. H., Keays, R. R., Hsieh, S.

Determination of some precious metals by neutron activation analysis.

J. Radioanal. Chem., **1**, 487–507 (November 1968).

(ENGLISH). DEPARTMENT OF GEOLOGY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.

6406 Armstrong, A. A., Bogdan, J. F., Chudgar, A. J.

Measurement of fiber blend variability by activation analysis.

J. Radioanal. Chem., **1**, 475–485 (November 1968).

(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING, UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NEW MEXICO AND SCHOOL OF TEXTILES, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, N.C.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6407 Fritze, K., Robertson, R.
Instrumental and radiochemical neutron activation analysis techniques for protein bound trace metals in human serum.
J. Radioanal. Chem., **1**, 463–473 (November 1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 6408 Op De Beeck, J., Hoste, J.
Application limits of the double irradiation technique in the detection of nuclear interference reactions.
J. Radioanal. Chem., **1**, 455–461 (November 1968).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 6409 Neuburger, M., Fourcy, A.
Determination of molybdenum and tungsten in plants by activation analysis.
J. Radioanal. Chem., **1**, 289–296 (1968).
 (FRENCH). (ENGLISH SUMMARY). LABORATOIRE DE BIOLOGIE VEGETALE, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, GRENOBLE, FRANCE.
- 6410 Albert, P., Blouri, J., Cleyergue, C., Deschamps, N., Le Hericy, J.
Contribution to the study of determination by radioactivation of sulfur and phosphorus in very small concentration metals of very high purity (aluminum, magnesium, copper, iron, nickel).
J. Radioanal. Chem., **1**, 297–311 (1968).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU CNRS, VITRY, FRANCE.
- 6412 Albert, P., Blouri, J., Cleyergue, C., Deschamps, N., Le Hericy, J.
Contribution to the study of determination by radioactivation of sulfur and phosphorus in very small concentrations in metals of very high purity (aluminum, magnesium, copper, iron, nickel).
J. Radioanal. Chem., **1**, 389–396 (1968).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU CNRS, VITRY, FRANCE.
- 6436 Kusaka, Y.
Activation analysis of silver using radium plus beryllium neutron source.
Bunseki Kagaku, **8**, No. 2, 111–116 (February 1959).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, KONAN UNIVERSITY, JAPAN.
- 6437 Fisher, D. E., St. John, L. E., Gutenmann, W. H., Wagner, D. G., Lisk, D. J.
Fate of Banvel T, ioxynil, tordon and trifluorilin in the dairy cow.
J. Dairy Science, **48**, No. 12, 1711–1715 (1965).
 (ENGLISH). DEPARTMENTS OF ENGINEERING PHYSICS, ENTOMOLOGY, AND ANIMAL HUSBANDRY, CORNELL UNIVERSITY, ITHACA, NEW YORK.
- 6438 Worwood, M., Taylor, D. M.
The simultaneous determination of manganese and copper in biological material by neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **19**, No. 10, 753–756 (1968).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DEPARTMENT OF BIOPHYSICS, INSTITUTE OF CANCER RESEARCH, BELMONT, SUTTON, SURREY, ENGLAND.
- 6439 Turkstra, J., Steyn, W. M., De Wet, W. J.
The rapid determination of $^{235}\text{U}/^{238}\text{U}$ ratios by activation analysis utilizing high resolution gamma-spectrometry.
Nucl. Instruments Methods, **63**, No.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

3, 269–273 (1968).

(ENGLISH). ATOMIC ENERGY BOARD,
PRETORIA, SOUTH AFRICA.

6440 Specker, H.

**Problems and possibilities of
modern trace analysis.**

Angew. Chem. Int. Ed. Engl., **7**,
252–259 (April 1968).

(ENGLISH). LEHRSTUHL FÜR
ANORGANISCHE CHEMIE DER
UNIVERSITÄT BOCHUM, GERMANY.

6441 Ceard, P., Rouchaud, J. C.,
Deschamps, N.

**Determination of uranium-235 in
zircalloys and zirconium sponges
by neutron activation.**

Bull. Soc. Chim. Fr., No. 8,
3449–3451 (1968).

(FRENCH). CENTRE DE RECHERCHES
RADIOGÉOLOGIQUES, NANCY, FRANCE.

6442 Theisen, A. A., Borchardt, G. A.,
Harward, M. E., Schmitt, R. A.

**Neutron activation for
distinguishing cascade range
pyroclastics.**

Science, **161**, No. 3845, 1009–1011
(1968).

(ENGLISH). OREGON STATE
UNIVERSITY, CORVALLIS, OREGON.

6443 Greenland, L. P.

**Simultaneous determination of
tantalum and hafnium in silicates
by neutron activation analysis.**

Anal. Chim. Acta, **42**, No. 3,
365–370 (1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.

6444 Machiroux, R., Mousty, F.

**The determination of impurities in
zinc by neutron activation.**

**Determination of silver and
cobalt in zone refined zinc.**

Anal. Chim. Acta, **42**, No. 3,
371–378 (1968).

(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). LABORATOIRES DE
CHIMIE ANALYTIQUE, UNIVERSITÉ DE
LIEGE, LIEGE, BELGIUM.

6445 Tomura, K., Higuchi, H., Onuma,
N., Hamaguchi, H.

**Rapid determination of dysprosium
in rock samples by neutron
activation analysis with a
germanium(lithium) detector after
chemical separation.**

Anal. Chim. Acta, **42**, No. 3,
389–395 (1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). THE INSTITUTE FOR
ATOMIC ENERGY, RIKIKYO UNIVERSITY,
YOKOSUKA, JAPAN AND DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
UNIVERSITY OF TOKYO, HONGO,
TOKYO, JAPAN.

6446 Ballaux, C., Dams, R., Hoste, J.

**Neutron activation analysis of
high purity selenium. Part III.
Determination of phosphorus,
sulfur, and chlorine.**

Anal. Chim. Acta, **43**, No. 1, 1–11
(1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.

6447 Ehmman, W. D., Mc Kown, D.

**Heat sealed polyethylene sample
containers for neutron activation
analysis.**

Anal. Chem., **40**, No. 11, 1758–1759
(1968).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

6448 Eckhoff, N. D.

**Optimal neutron activation
analysis.**

TID-24581, 197p. (1968).

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, KANSAS STATE
UNIVERSITY, MANHATTAN, KANSAS.

6449 Amiel, S., Nir, A.

**Determination of ^{18}O by
bombardment with alpha particles
and detection of liberated
neutrons.**

U.S. Patent 3,247,380. April 19,
1966.

(ENGLISH). REHOVOTH, ISRAEL.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6450 Amiel, S., Peisach, M.
Determination of deuterium concentration in heavy water by the reaction $^{16}\text{O}(\text{d},\text{n})^{17}\text{F}$ induced by reactor neutrons.
 IA-692, 12p. (October 1961).
 (ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, ISRAEL.
- 6451 Patek, P., Bildstein, H.
Determination of trace elements in crude oils from the Matzen-Auersthal field by neutron activation analysis. I. Determination of long lived nuclides.
Z. Anal. Chem., **231**, No. 3, 187-192 (1967).
 (GERMAN) (ENGLISH SUMMARY). OSTERREICHISCHE STUDIENGESELLSCHAFT FÜR ATOMENERGIE, REAKTORZENTRUM SEIBERSDORF, INSTITUT FÜR CHEMIE, WIEN, AUSTRIA.
- 6452 Arghittu, C.
Use of nuclear reactors for biological research and for medical uses.
Minerva Nucl., **8**, 42-61 (1964).
 (ITALIAN) (ENGLISH SUMMARY). CENTRO APPLICAZIONI MILITARI ENERGIA NUCLEARE, S. PIERO A GRADO (PISA), ITALY.
- 6453 Haffner, J. W., Terrell, C. W.
Rock and meteorite analysis by neutron activation.
Trans. Am. Nucl. Soc., **6**, 179 (1963).
 (ENGLISH). ARMOUR RESEARCH FOUNDATION, CHICAGO, ILLINOIS.
- 6454 Lobanov, E. M., Dutov, A. G., Leushkina, G. V.
Determination of dysprosium in yttrium oxides and ferrite garnet samples by a radioactivation method.
J. Anal. Chem., USSR, **21**, No. 7, 774-776 (July 1966).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF THE SCIENCES OF THE UZBSSR, TASHKENT, RUSSIA.
- 6455 Livingston, H. D., Bowen, V. T.
Activation analysis of lanthanide elements in modern corals. Germanium detector procedures.
 NYO-2174-70, 18p. (April 1968).
 (ENGLISH). WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASSACHUSETTS.
- 6456 Parker, J. L., Holm, D. M., Barnes, B. K.
Characteristics and applications of a large sodium iodide detector assembly.
 LA-DC-9801, 12p.
 (ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 6457 Thompson, M.
Gold and copper traces in late Athenian silver.
Archaeometry, **3**, 10-15 (1960).
 (ENGLISH). AMERICAN NUMISMATIC SOCIETY.
- 6458 Simpson, G.
Notes on Gaulish Samian pottery and its analysis by neutron activation.
Archaeometry, **3**, 20-24 (1960).
 (ENGLISH). LADY MARGARET HALL, ENGLAND.
- 6459 Carpenter, B. S.
Determination of trace quantities of uranium in biological materials by the nuclear track technique.
 Thesis. Howard University, 34p. (January 23, 1969).
 (ENGLISH). HOWARD UNIVERSITY, WASHINGTON, D.C.
- 6460 Menon, M. P.
Investigations in automated activation analysis.
 TEES-2671-6, 48p. (March 15, 1968).
 (ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6461 Kuhn, W. K. G.
Determination by indicator activation analysis of the sorption conditions, the movement and the de-enrichment factor of anions at a site on the Danube.
Isotope and Radiation Techniques in Soil Physics and Irrigation Studies, 271–278, Vienna, International Atomic Energy Agency (1967).
 (ENGLISH). INSTITUTE OF RADIOBIOLOGY, TECHNISCHE HOCHSCHULE, HANOVER, GERMANY.
- 6568 Albert, P., Blouri, J., Cleyrergue, C., Deschamps, N., Le Hericy, J.
Contribution to the study of the determination by radioactivation of sulfur and phosphorous on very low concentrates of metals of very high purity (aluminum, magnesium, copper, iron, nickel).
J. Radioanal. Chem., 1, 431–441 (1968).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU CNRS VITRY, FRANCE.
- 6569 Ricq, J. C.
Utilization of superimposed ion exchange column on activation analysis.
J. Radioanal. Chem., 1, 443–453 (1968).
 (FRENCH) (ENGLISH SUMMARY). ATOME INDUSTRIEL, GRENOBLE, FRANCE.
- 6570 Kraay, C. M.
Gold and copper traces in early Greek silver – II.
Archaeometry, 2, 1–16 (1959).
 (ENGLISH). ENGLAND.
- 6571 Blankov, E. B., Blankova, T. N., Rusaev, V. G.
Determining isotope activity by activation analysis using special coordinate systems.
Industrial Laboratory, 34, No. 3, 364–366 (March 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 6572 Bogancs, J., Quittner, P., Szabo, E.
Determination of contaminants in high-purity silicon by nondestructive activation analysis.
Soviet Atomic Energy, 24, No. 5, 520–523 (May 1968).
 (ENGLISH TRANSLATION). CENTRAL INSTITUTE FOR PHYSICAL RESEARCH, HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY.
- 6573 Egiazarov, B. G., Zyubko, V. A., Novikov, A. I.
Optimum analytical method for instrumental activation analysis.
Soviet Atomic Energy, 24, No. 5, 536–538 (May 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 6574 Samsahl, K.
Anion exchange studies of radioactive trace elements in sulphuric acid solutions.
 AE-103, 12p. (January 1963).
 (ENGLISH). NUCLEAR CHEMISTRY LABORATORY, AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 6575 Samsahl, K.
Some chemical group separations of radioactive trace elements.
 AE-82, 18p. (June 1962).
 (ENGLISH). NUCLEAR CHEMISTRY LABORATORY, AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 6576 Samsahl, K.
A chemical eight-group separation method for routine use in gamma spectrometric analysis. II. Detailed analytical schema.
 AE-56, 18p. (June 1961).
 (ENGLISH). NUCLEAR CHEMISTRY LABORATORY, AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 6577 Samsahl, K.
A chemical eight group separation method for routine use in gamma spectrometric analysis. I. Ion exchange experiments.
 AE-54, 13p. (April 1961).
 (ENGLISH). NUCLEAR CHEMISTRY

ACTIVATION ANALYSIS – BIBLIOGRAPHY

LABORATORY, AB ATOMENERGI,
STOCKHOLM, SWEDEN.

6578 Albert, P.

Respective domains for activation analysis of charged particles, photons, and neutrons.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 3–14,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(FRENCH). LABORATOIRE D'ANALYSE PAR ACTIVATION DU C.E.C.M.–VITRY/SEINE DU C.N.R.S., FRANCE.

6579 Ricci, E., Hahn, R. L.

Present status of the ^3He activation analysis program at ORNL.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 15–29,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

6580 Kuin, P. N.

The determination of nitrogen and boron in siliconcarbide proton activation analysis.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 31–44,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(ENGLISH). N.V. PHILIPS GLOEILAMPENFABRIEKEN, EINDHOVEN, NETHERLANDS.

6581 Schuster, E., Wohlleben, K.

Nondestructive determination of carbon in silicon by the reaction $^{12}\text{C}(d,n)^{13}\text{N}$.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 45–63,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(GERMAN). FORSCHUNGLABORATORIUM DER SIEMENS AG, ERLANGEN.

6582 Peisach, M.

Analytical use of prompt neutrons produced by pulses of charged particles.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 65–102,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, SOUTH AFRICA.

6583 Schuster, E., Wohlleben, K.

Activation analysis determination of aluminum with the reaction $^{27}\text{Al}(d,p)^{28}\text{Al}$ for deuterons at 0.6 to 3.2 mev.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 103–118,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

(GERMAN). FORSCHUNGLABORATORIUM DER SIEMENS AG, ERLANGEN.

6584 Engelmann, C., Jerome, D. Y.

Application of nuclear isomerism for non-destructive determination of certain elements by activation with photons at 4 to 8 MeV.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 119–145,
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community (EURATOM) (1968).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(FRENCH) (ENGLISH SUMMARY).
C.E.A. FRANCE AND C.E.N. SACLAY.

6585 Wilkniss, P. E., Linnenbom, V. J.

**Use of the Naval Research
Laboratory 60-MeV LINAC for
photon activation analysis with
particular reference to the
determination of fluorine in sea
water.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 147–160,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.

6586 Owlya, A., Abdeyazdan, R., Albert,
P.

**Analysis of the rare earths by
irradiation with photons at high
energies.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 161–194,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(FRENCH). LABORATOIRE D'ANALYSE
PAR ACTIVATION DU C.E.C.M.-C.N.R.
S.-VITRY, FRANCE.

6587 Meyers, P.

**Nondestructive activation analysis
with photons, deuterons, and
 γ -photons.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 195–224,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(ENGLISH). INSTITUUT VOOR
KERNPHYSISCH ONDERZOEK,
AMSTERDAM, NETHERLANDS.

6588 Lamb, J. F., Lee, D. M.,
Markowitz, S. S.

**Simultaneous determination of ^{18}O
and ^{16}O isotopes by ^3He
activation analysis.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 225–237,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(ENGLISH). DEPARTMENT OF
CHEMISTRY AND LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.

6589 Holm, D. M., Briscoe, W. L.,

Parker, J. L., Sanders, W. M.,
Parker, S. H.

**The determination of oxygen and
carbon in germanium by ^3He
activation.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 239–260,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(ENGLISH). UNIVERSITY OF
CALIFORNIA, LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW
MEXICO.

6590 Revel, G., Albert, P.

**Determination of oxygen in
zirconium, molybdenum, hafnium,
and tungsten by irradiation with
 ^3He and ^4He particles.**

*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 261–275,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).

(FRENCH). C.E.C.M., VITRY, SEINE
DU C.N.R.S., FRANCE.

6591 Barrandon, J. N., Debrun, J. L.,
Albert, P.

**Determination of low oxygen
content in iron, nickel, and**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

chrome by activation with α particles.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 277–291, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(FRENCH). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY, SEINE.

6592 De Goeij, J. J. M., Houtman, J. P. W.

Some aspects of the oxygen determination by the $^{16}\text{O}(t,n)^{18}\text{F}$ reaction.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 293–318, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(ENGLISH). REACTOR INSTITUUT DELFT, NETHERLANDS.

6593 Engelmann, C., Fritz, B., Gosset, J., Graeff, P., Loeuillet, M.

Determination of low quantities of oxygen and carbon by activation with photons and γ particles.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 319–350, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(FRENCH) (ENGLISH SUMMARY). C.E.A. FRANCE, C.E.N. SACLAY.

6594 Lacroix, M. J., Tran, M. D., Tousset, J.

Trace of the excitation function of the reaction $^{16}\text{O}(d,n)^{17}\text{F}$ up to 27 MeV and discussion of its utilization for oxygen determination.

Proceedings of the 2nd Conference on Practical Aspects of

Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 351–370, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON, FRANCE.

6595 Cuypers, M., Quaglia, L., Robaye, G., Dumont, P., Barrandon, J. N. **Research on the reaction $^{16}\text{O}(d,p)$ product with the thin oxygen layer on the surface of metals.**

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 371–378, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(FRENCH) (ENGLISH SUMMARY). LABORATOIRE D'APPLICATIONS DES RADIOELEMENTS, LABORATOIRE VAN DE GRAEFF, UNIVERSITE DE LIEGE AND CENTRE D'ETUDE DE CHIMIE METALLURGIQUE, VITRY SUR SEINE, FRANCE.

6596 Pierce, T. B.

The examination of surfaces by scanning with charged particles.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 389–401, Ebert, H.G. (Ed.), Brussels, European Atomic Energy Community (EURATOM) (1968).

(ENGLISH). ANALYTICAL SCIENCES DIVISION, AERE, HARWELL, DIDCOT, BERKS., ENGLAND.

6597 Engelmann, C., Graeff, P., Re, C.

Equipment utilized for irradiation of metallurgical samples at the linear accelerator and cyclotron at Saclay.

Proceedings of the 2nd Conference on Practical Aspects of Activation Analysis with Charged Particles, Liege, Belgium, September 21–22, 1967, 403–433,

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).
(FRENCH) (ENGLISH SUMMARY).
C.E.A. FRANCE, C.E.N. SACLAY.
- 6598 Fleischer, A. A., Hendry, C. O.,
Smith, C. G., Tom, J. L., Wells,
D. K.
**From planning to reality the
design goals and actual operation
of a isochronous cyclotron.**
*Proceedings of the 2nd Conference
on Practical Aspects of
Activation Analysis with Charged
Particles, Liege, Belgium,
September 21–22, 1967, 435–451,*
Ebert, H.G. (Ed.), Brussels,
European Atomic Energy Community
(EURATOM) (1968).
(ENGLISH). THE CYCLOTRON
CORPORATION, BERKELEY, CALIF.
- 6667 Mudrova, B., Kukula, F.
**Substoichiometric activation
analysis determination of
manganese in chemical reagents
and target materials for the
production of ⁵²Mn.**
UJV–1682, 7p. (1966).
(RUSSIAN) (CZECH AND ENGLISH
SUMMARIES). INFORMACNI STREDISKO
PRO JADERNOU ENERGIU UJV CSAV
REZ, PRAHA, CZECHOSLOVAKIA.
- 6668 Amiel, S., Peisach, M.
**Radioactivation analysis of sodium
by counting photoneutrons.**
Anal. Chem., **35**, No. 8, 1072–1076
(July 1963).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, SOREQ RESEARCH
ESTABLISHMENT, REHOVOTH, ISRAEL.
- 6669 Amiel, S., Peisach, M.
**Determination of deuterium
concentration in heavy water by
the reaction ¹⁶O(d,n) ¹⁷F induced
by reactor neutrons.**
Anal. Chem., **34**, No. 10, 1305–1307
(September 1962).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION LABORATORIES,
REHOVOTH, ISRAEL.
- 6670 Atomic Energy for Peace, Bangkok
**Neutron activation analysis of
gold in teak (tectona grandis).**
THAI, AEC–17, 8p. (1968).
(ENGLISH). OFFICE OF THE ATOMIC
ENERGY FOR PEACE, BANGKOK,
THAILAND.
- 6671 Chamniroksarnt, D.
**Determination of manganese,
copper, zinc, iron and molybdenum
in animal blood sample by neutron
activation analysis.**
THAI, AEC–22. 5p. (1969).
(ENGLISH). OFFICE OF THE ATOMIC
ENERGY FOR PEACE, BANGKOK,
THAILAND.
- 6673 Holm, V., Steinnes, E., Waaler, T.
**Dose control of suppositories by
neutron activation analysis.**
*Saertrykk av Meddelelser fra Norsk
Farmaceutisk Selskap*, **30**, 17–34
(1968).
(ENGLISH). DEPARTMENT OF
GALENICAL PHARMACY, INSTITUTE OF
PHARMACY, UNIVERSITY OF OSLO,
BLINDERN, OSLO, AND INSTITUTE FOR
ATOMENERGI, KJELLER, NORWAY.
- 6674 Lima, F. W., Silva, C. M.
**Study of the influence of various
factors on the radiochemical
Gutzeit method of activation
analysis of arsenic.**
IEA No. 176, 20p. (November 1968).
(ENGLISH) (SPANISH AND FRENCH
SUMMARIES). DIVISAO DE
RADIOQUIMICA, INSTITUTO DE
ENERGIA ATOMICA, SAO PAULO,
BRAZIL.
- 6675 Mc Murray, W. R., Peisach, M.,
Pretorius, R., Van Der Merwe, P.,
Van Heerden, I. J.
**Isotopic determination of
calcium–43 and calcium–48 by
neutron time-of-flight
spectrometry.**
Anal. Chem., **40**, No. 2, 266–270
(February 1968).
(ENGLISH). SOUTHERN UNIVERSITIES
NUCLEAR INSTITUTE, FAURE, C.P.,
SOUTH AFRICA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 6676 Oka, Y., Kato, T.
Photoactivation of gallium, indium and thallium by 15 MeV bremsstrahlung and the uses of the products in activation analysis.
Nippon Kagaku Zasshi, **87**, 1057–1060 (1966).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, JAPAN.
- 6677 Oka, Y., Kato, T., Saito, T.
Determination of rhodium and rhenium in platinum–rhodium and platinum–rhenium mixtures by photoactivation analysis.
Nippon Kagaku Zasshi, **87**, 154–158 (1966).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, JAPAN.
- 6678 Oka, Y., Kato, T., Sasaki, M.
Radioactivation of gallium, indium and thallium by means of photonuclear reaction and the determination of respective contents in their mixtures.
Nippon Kagaku Zasshi, **86**, 612–619 (1965).
 (JAPANESE) (ENGLISH SUMMARY).
 DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI-SHI, AND FUJI IRON AND STEEL CO. LTD., MURORAN WORKS, MURORAN-SHI, JAPAN.
- 6679 Pedersen, A. O., Steinnes, E., Waaler, T.
Examination of individual morphine suppositories by means of neutron activation analysis.
Saetrykk av Meddelelser fra Norsk Farmaceutisk Selskap, **30**, 41–50 (1968).
 (ENGLISH). DEPARTMENT OF GALENICAL PHARMACY, INSTITUTE OF PHARMACY, UNIVERSITY OF OSLO, BLINDERN, OSLO AND INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.
- 6680 Peisach, M.
The determination of carbon, nitrogen, and oxygen and their stable isotopic tracers in gases by neutron time-of-flight spectroscopy.
Chem. Commun., 632–633 (1966).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 6681 Peisach, M., Pretorius, R., Strebel, P. J.
Attempts of analysing volatile organic compounds by neutron time-of-flight spectrometry.
Convention Handbook, 311, South African Chemical Institute 20th onvention, Durban (1967).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 6682 Peisach, M., Pretorius, R.
Determination of deuterium in gases by neutron time-of-flight spectrometry.
Anal. Chem., **39**, No. 6, 650–657 (May 1967).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 6683 Peisach, M., Pretorius, R.
Radioactivation analysis of calcium-48 tracers by proton irradiation.
The Leech, **XXXVII**, No. 1, 11–15 (March 1967).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, SOUTH AFRICA.
- 6684 Volborth, A., Fabbi, B. P., Vincent, H. A.
Total nondestructive analysis of CaAs syenite.
Advances in X-Ray Analysis, Vol. **11**, 158–163, Plenum Press (1968).
 (ENGLISH). NEVADA MINING ANALYTICAL LABORATORY, MACKAY SCHOOL OF MINES, UNIVERSITY OF NEVADA, RENO, NEVADA.
- 6685 Von Der Fehr, F. R., Steinnes, E.
A method employing activation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

analysis for the study of human enamel surface solubility rates in vivo and in vitro.

Archs Oral Biol., **11**, 1393–1403 (1966).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF GENERAL DENTAL RESEARCH, DENTAL FACULTY, UNIVERSITY OF OSLO, JOSEFINES GATE, OSLO, AND INSTITUTT FOR ATOMENERGI, KJELLER RESEARCH ESTABLISHMENT, KJELLER, NORWAY.

6686 Von Der Fehr, F. R., Steinnes, E.
The solubility rate of unabraded, abraded, and exposed human enamel surfaces studied by means of activation analysis.

Archs Oral Biol., **11**, 1405–1418 (1966).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF GENERAL DENTAL RESEARCH, DENTAL FACULTY, UNIVERSITY OF OSLO, OSLO AND INSTITUTT FOR ATOMENERGI, KJELLER, RESEARCH ESTABLISHMENT, KJELLER, NORWAY.

6687 Waaler, T., Kjensli, O., Steinnes, E.

Determination of inter-dose variation in pharmaceuticals by neutron activation analysis.

Saetrykk av Meddelelser fra Norsk Farmaceutisk Selskap, No. 7, 93–105 (1966).

(ENGLISH). DEPARTMENT OF GALENICAL PHARMACY, INSTITUTE OF PHARMACY, UNIVERSITY OF OSLO, BLINDERN, OSLO AND INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.

6688 Woodruff, G. L., Babb, A. L., Wilson, W. E., Yamamoto, Y., Stamm, S. J.

Neutron activation analysis for the early diagnosis of cystic fibrosis.

Nuclear Applications, **6**, 352–359 (April 1969).

(ENGLISH). UNIVERSITY OF WASHINGTON AND CHILDRENS ORTHOPEDIC HOSPITAL AND MEDICAL CENTER, SEATTLE, WASHINGTON.

6689 Wolfle, R., Herpers, U., Herr, W.
The determination of submicrogram copper in pure materials and meteorites with a highly selective gamma gamma coincidence method.

J. Radioanalytical Chemistry, **2**, 171–182 (1969).

(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT ZU KOLN UND ARBEITSGRUPPE, INSTITUT FUR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE JULICH.

6690 Bussiere, P., Laurent, A., Junod, E.

Application of neutron radioactivation analysis and electronic computation to the nondestructive determination of traces of chlorine in silica alumina mixtures.

J. Radioanalytical Chemistry, **2**, 211–217 (1969).

(FRENCH) (ENGLISH SUMMARY). CNRS, INSTITUT DE RECHERCHES SUR LA CATALYSE, VILLEURBANNE, RHONE, CEA, CENG, SAR, GROUP ANALYSE PAR ACTIVATION, GRENOBLE, FRANCE.

6691 De Lange, P. W., Venter, J. H., De Wet, W. J.

Non-destructive neutron activation analysis of gold and uranium in residue samples of different ore bodies.

J. Radioanalytical Chemistry, **2**, 219–228 (1969).

(ENGLISH). ATOMIC ENERGY BOARD, PELINDABA, PRETORIA, SOUTH AFRICA.

6692 Simkova, M., Krivanek, M.

Determination of chromium in blood by neutron activation analysis.

J. Radioanalytical Chemistry, **2**, 229–233 (1969).

(ENGLISH). NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.

6693 Abe, S.

Application of non-isotope addition technique to the

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- determination of copper with photon activation.**
J. Radioanalytical Chemistry, **2**, 275–279 (1969).
 (ENGLISH). DEPARTMENT OF APPLIED CHEMISTRY, YAMAGATA UNIVERSITY, JONAN 4 CHOME, YONEZAWA, JAPAN.
- 6694 Brune, D., Jirlow, K.
Determination of oxygen in aluminium by means of 14 MeV neutrons with an account of flux attenuation in the sample.
J. Radioanalytical Chemistry, **2**, 49–54 (1969).
 (ENGLISH). AB ATOMENERGI, STOCKHOLM, STUDSVIK, SWEDEN.
- 6695 Pillay, K. K. S., Miller, W. W.
Characteristic x-rays from (n,γ) products and their utilization in activation analysis.
J. Radioanalytical Chemistry, **2**, 97–107 (1969).
 (ENGLISH). THE PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA.
- 6696 De Boeck, R., Adams, F., Hoste, J.
Determination of bismuth in lead by neutron activation analysis.
J. Radioanalytical Chemistry, **2**, 109–114 (1969).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 6697 Brune, D., Samsahl, K., Wester, P. O.
The amounts of As, Au, Br, Cu, Fe, Mo, Se and Zn in normal and uraemic human whole blood. A comparison by means of neutron activation analysis.
 AE-134, 10p. (1964).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, AB ATOMENERGI, STOCKHOLM AND DEPARTMENT OF MEDICINE, KAROLINSKA INSTITUTET, SERAFIMERLASARETTET, STOCKHOLM, SWEDEN.
- 6698 Baker, C. A., Wood, D. A.
A catalogue of 30 MeV gamma activation products. Part II. Ruthenium to bismuth.
 AERE-R 5818, 53p. (July 1968).
 (ENGLISH). ANALYTICAL SCIENCES DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.
- 6699 Brune, D.
Aspects of low temperature irradiation in neutron activation analysis.
 AE-332, 12p. (August 1968).
 (ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.
- 6700 Espanol, C. E., Marafuschi, A. M.
Application of Ge(Li) detector to the determination of manganese in zirconium alloys by activation analysis.
Radiochim. Acta, **9**, 165–166 (August 1968).
 (ENGLISH). FACULTAD DE INGENIERIA, UNIVERSIDAD DE BUENOS AIRES, ARGENTINA.
- 6701 Brooks, C. K.
A radiochemical separation for the determination of zirconium or hafnium in rocks and minerals by neutron activation analysis.
Radiochim. Acta, **9**, 157–160 (August 1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF GEOLOGY AND MINERALOGY, OXFORD, ENGLAND.
- 6702 Van Reenen, T. J., De Wet, W. J.
Non-destructive activation analysis of high purity aluminum for uranium and some other impurities.
J.S. Afr. Chem. Inst., **21**, No. 2, 120–126 (1968).
 (ENGLISH) (AFRIKAAN SUMMARY). CHEMISTRY DIVISION, NATIONAL NUCLEAR RESEARCH CENTRE, PELINDABA, SOUTH AFRICA.
- 6703 Vass, S., Vorsatz, B.
Effect of flux variations in neutron generators on the accuracy of activation analysis.
KFKI (Kozp. Fiz. Kut. Intez.) Kozlem., **16**, 225–230 (1968).
 (HUNGARIAN). HUNGARY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6704 Fourcy, A., Neuburger, M.
Inorganic components of plants by radioactivation analysis. Applications in the physiology of trace elements, treatment control, pollution, and radioecology.
Bull. Soc. Chim. Fr., No. 11, 4681-4686 (1968).
 (FRENCH). LABORATOIRE DE BIOLOGIE VEGETALE DU CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, GRENOBLE, FRANCE.
- 6705 Abdurakhmanova, S. R., Kireev, V. A., Navalikhin, L. V., Talanin, Y. N.
Determination of oxygen in molybdenum samples by activation with neutrons having an energy of 14 MeV.
J. Anal. Chem., USSR, 23, No. 8, 1043-1046 (August 1968).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS, ACADEMY OF SCIENCES OF THE UZBEK SSR, TASHKENT.
- 6706 Gambaryan, R. G., Danilchenko, I. A., Shtan, A. S.
Determination of copper in copper-rich products using neutron activation in conjunction with gamma gamma coincidence counting.
Industrial Laboratory, 34, No. 8, 1170-1173 (August 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 6707 Shiryayeva, M. B., Salmin, Y. P., Sergeeva, T. V.
Determination of tantalum in rocks and minerals by neutron activation, with removal of interfering elements by cation exchange.
Industrial Laboratory, 34, No. 8, 1105-1106 (August 1968).
 (ENGLISH TRANSLATION). THE CENTRAL SCIENTIFIC RESEARCH INSTITUTE FOR MINERAL RAW MATERIALS.
- 6708 Nagy, L. G., Giber, J.
Absorption phenomena in the determination of trace impurities of germanium and silicon by activation analysis.
Period. Polytech., Chem., Eng. (Budapest), 12, No. 1, 37-41 (1968).
 (ENGLISH). DEPARTMENT OF PHYSICAL CHEMISTRY, POLYTECHNICAL UNIVERSITY, BUDAPEST, HUNGARY.
- 6709 Ricci, E., Handley, T. H.
Neutron activation analysis with ²⁵²Cf sources.
Trans. Amer. Nucl. Soc., 11, 470 (November 1968).
 (ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 6710 Prasad, K. N., Jester, W. A.
Development and evaluation of post-cutting chip activation analysis methods in the study of tool wear.
Trans. Amer. Nucl. Soc., 11, 471 (November 1968).
 (ENGLISH). PENNSYLVANIA STATE UNIVERSITY, COLLEGE PARK, PA.
- 6711 George, K. D., Kramer, H. H.
Deuterium analysis by photoneutron detection.
Trans. Amer. Nucl. Soc., 11, 474-475 (November 1968).
 (ENGLISH). UCC-SFRC.
- 6712 Strain, W. H., Rob, C. G., Pories, W. J., Terry, R. A., Childers, R. C., Hennessen, J. A., Thompson, M. F., Graber, F. M.
Activation analysis of a human abdominal aneurysm.
Trans. Amer. Nucl. Soc., 11, 477-478 (November 1968).
 (ENGLISH). UNIVERSITY OF ROCHESTER, WRIGHT-PATTERSON AIR FORCE BASE AND GULF GENERAL ATOMIC.
- 6713 Augustson, R. H., Menlove, H. O., Henry, C. N., Masters, C. F., Keepin, G. R.
Delayed-neutron kinetic response methods of nondestructive assay.
Trans. Amer. Nucl. Soc., 11, 660-661 (November 1968).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, N.M. 1788–1789 (1968).
- 6714 Thorpe, M. M., Henry, C. N., Smith, D. B., Menlove, H. O., Augustson, R. H.
Applications of neutron interrogation to assay of fissionable material.
Trans. Amer. Nucl. Soc., **11**, 661 (November 1968).
- (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, N.M. (ENGLISH). DEPARTMENT OF PHARMACEUTICAL CHEMISTRY, SCHOOL OF PHARMACY, DUQUESNE UNIVERSITY, PITTSBURGH, PA.
- 6718 Oldham, G., Darrall, K. G.
The use of threshold energies in 14 MeV neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **20**, No. 1, 29–32 (1969).
- 6715 Soremark, R., Ingels, O., Plett, H., Samsahl, K.
Influence of some dental restorations on the concentrations of inorganic constituents of the teeth.
Acta Odont. Scand., **20**, No. 3, 215–224 (1962).
- (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF PROSTHETICS AND THE CLINICAL LABORATORY OF THE ROYAL SCHOOL OF DENTISTRY AND AB ATOMENERGI, STOCKHOLM, SWEDEN. (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, LOUGHBOROUGH, LEICESTERSHIRE.
- 6719 Chung, K. S., Beamish, F. E.
The simultaneous determination of ruthenium and osmium by a radiochemical method.
Anal. Letters, **1**, No. 2, 45–52 (November 1967).
- (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 6720 Kodochigov, P. N., Glazunov, M. P., Orlov, Y. L., Spitsyn, V. I.
Zonal distribution of impurities in diamond crystals.
Dokl. Akad. Nauk SSSR, **172**, No. 1, 184–186 (1967).
- (RUSSIAN). RUSSIA.
- 6721 Alian, A., Hallaba, E., Etman, M., Bashat, H.
Radioactivation and tracer studies on cements used in petroleum production operations.
Microchem. J., **13**, No. 4, 690–698 (1968).
- (ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, ATOMIC ENERGY ESTABLISHMENT, CAIRO, UAR.
- 6722 Del Milagro Perez, M.
Analytical control of gases in metals of nuclear interest.
Energ. Nucl. (Madrid), **11**, 537–548 (November–December 1967).
- (SPANISH). DIRECCION DE QUIMICA E ISOTOPOS. DIVISION DE QUIMICA
- (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, N.M.
- 6716 Boettger, M., Fittkau, S., Niese, S., Hanson, H.
Activation analytic determination of some trace elements in crystallized leucine amino-peptidase from bovine eye lenses and in the lens, aqueous humor and vitreous body of bovine eye.
Acta Biol. Med. Ger., **21**, No. 2, 143–149 (1968).
- (GERMAN) (ENGLISH AND RUSSIAN SUMMARIES). ZENTRALINSTITUT FUR KERNFORSCHUNG DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN AND PHYSIOLOGISCH-CHEMISCH EN INSTITUT DER MARTIN LUTHER UNIVERSITAT HALLE-WITTENBERG, HALLE.
- 6717 Borke, M. L., Madan, P. B., Martin, B. D.
Neutron activation analysis of L-ephedrine and norephedrine silver complexes.
J. Pharm. Sci., **57**, No. 10,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ANALITCA. SECCION DE ANALISIS
IONICO. J.E.N.

- 6723 Van Grieken, R., Gijbels, R.,
Speecke, A., Hoste, J.
**The determination of silicon in
steel by 14 MeV neutron
activation analysis.**
Anal. Chim. Acta, **43**, No. 2,
199–209 (1968).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 6724 Greenland, L. P.
**Application of coincidence
counting to neutron activation
analysis.**
U.S. Geol. Surv., Prof. Pap. 600B,
76–78 (1968).
(ENGLISH). U.S. GEOLOGICAL SURVEY,
WASHINGTON, D.C.
- 6725 Schmied, H., Ziffermayer, G.
**Activation analysis as an
analytical method in the
manufacture of valves.**
Microtecnic (Lausanne), **22**,
292–294 (August 1968).
(ENGLISH). AG BROWN BOVERI CO.
LTD., BADEN.
- 6726 Rollier, M. A., Maxia, V., Meloni,
S.
**Utilization of the University of
Pavia LENA research reactor.**
Energ. Nucl. (Milan), **15**, 641–647
(October 1968).
(ENGLISH) (ITALIAN SUMMARY).
LABORATORIO DI RADIOCHIMICA,
ISTITUTO DI CHIMICA GENERALE,
UNIVERSITY OF PAVIA, ITALY.
- 6727 Oka, Y., Kato, Y., Tsai, H. T.
**Activation analysis of antimony in
tin based on an internal monitor
method using thermal neutrons.**
Bull. Chem. Soc. Japan, **41**, No.
10, 2427–2430 (1968).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
TOHOKU UNIVERSITY, KATAHIRA-CHO,
SENDAI, JAPAN.
- 6728 Gijbels, R., Speecke, A., Hoste,
J.
**An oxygen standard for the
determination of oxygen in steel
by 14 MeV neutron activation
analysis.**
Anal. Chim. Acta, **43**, No. 2,
183–198 (1968).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 6729 Higuchi, H., Tomura, K.,
Takahashi, H., Onuma, N.,
Hamaguchi, H.
**Simultaneous determination of
strontium and barium by neutron
activation analysis with a Ge(Li)
detector.**
Anal. Chim. Acta, **44**, No. 2,
431–436 (1969).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). THE INSTITUTE FOR
ATOMIC ENERGY, RIKKYO UNIVERSITY,
YOKOSUKA AND DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
UNIVERSITY OF TOKYO, HONGO,
TOKYO, JAPAN.
- 6730 Francois, P. E.
**An investigation of the degraded
neutron flux in a 14 MeV neutron
activation cell.**
Analyst (London), **93**, No. 1112,
720–721 (1968).
(ENGLISH). DEPARTMENT OF
PHYSICS, UNIVERSITY OF ASTON IN
BIRMINGHAM, GOSTA GREEN,
BIRMINGHAM.
- 6731 Wing, J., Wahlgren, M. A.
**Optimal detection sensitivities in
activation with fast neutrons
from an americium-241,
curium-242, beryllium source.**
Appl. Spectrosc., **23**, No. 1, 5–7
(1969).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 6732 Couture, C.
Analysis by activation.
Atomes (Paris), **23**, 321–322 (May
1968).
(FRENCH). FRANCE.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6733 Fedoroff, M.
Determination of aluminum in molybdenum by neutron activation.
C.R. Acad. Sci., Paris, **267C**, No. 19, 1227–1229 (1968).
 (FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU CNRS, VITRY, VAL-DE-MARNE.
Talanta, **16**, No. 1, 116–118 (1969).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INORGANIC AND NUCLEAR SCIENCE LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.
- 6734 Wytttenbach, A., Dulakas, H.
Determination of aluminum, magnesium, calcium, sodium, manganese, and vanadium in rocks by instrumental neutron activation analysis.
Chimia, **22**, No. 12, 484–487 (1968).
 (GERMAN) (ENGLISH SUMMARY). EIDGENOSSISCHES INSTITUT FÜR REAKTORFORSCHUNG, WÜRENLINGEN, SCHWEIZ.
- 6735 Courrier, W. D., Guest, A., Lock, C. J. L., Tomlinson, R. H.
Determination of rhenium to chlorine ratios in complexes by neutron activation.
Can. J. Chem., **46**, 2965–2967 (September 15, 1968).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 6736 Schuster, E., Wohlleben, K.
Non-destructive determination of carbon in silicon through the reaction $^{12}\text{C}(d,n)^{13}\text{N}$.
Z. Anal. Chem., **240**, 175–183 (1968).
 (GERMAN) (ENGLISH SUMMARY). FORSCHUNGLABORATORIUM DER SIEMENS AG, ERLANGEN.
- 6737 Lux, F.
Application of activation analysis in biochemistry.
Z. Anal. Chem., **243**, 107–125 (1969).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MÜNCHEN.
- 6738 Nadkarni, R. A., Haldar, B. C.
Substoichiometric determination of molybdenum in steels by neutron activation analysis.
Talanta, **15**, No. 11, 1097–1109 (1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 6739 Morgan, J. W., Lovering, J. F.
Uranium and thorium abundances in chondritic meteorites.
Talanta, **15**, 1079–1095 (November 1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF GEOPHYSICS AND GEOCHEMISTRY, THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, A.C.T., AUSTRALIA.
- 6740 Uken, E. A., Santos, G. G., Wainerdi, R. E.
Neutron activation analysis for the study of metallogenic provinces.
Talanta, **15**, No. 11, 1097–1109 (1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 6741 Esson, J., Hahn–Weinheimer, P., Johanning, H.
Determination of hafnium by neutron activation, and variation in the Zr/Hf ratio of some granite masses.
Talanta, **15**, 1111–1118 (November 1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF GEOLOGY, THE UNIVERSITY, MANCHESTER, ENGLAND AND FORSCHUNGSTELLE FÜR GEOCHEMIE, INSTITUT FÜR MINERALOGIE, TECHNISCHE HOCHSCHULE, MUNICH, GERMANY.
- 6742 Baker, C. A., Williams, D. R.
Photon activation analysis for carbon and oxygen.
Talanta, **15**, No. 11, 1143–1151 (1968).
 (ENGLISH) (GERMAN AND FRENCH

ACTIVATION ANALYSIS—ACCESSION NUMBERS

SUMMARIES). ANALYTICAL SCIENCES
DIVISION, AERE, HARWELL, DIDCOT,
BERKS., ENGLAND.

6743 Pierce, T. B., Edwards, J. W.,
Haines, K.

**Use of neutron energy moderation
for resolving interferences in
fast neutron activation analysis.**
Talanta, **15**, No. 11, 1153–1158
(1968).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). ANALYTICAL SCIENCES
DIVISION, AERE, HARWELL, DIDCOT,
BERKS., ENGLAND.

6744 Jenkins, W., Mc Millan, J. W.

**Activation analysis with standards
containing two or more active
nuclides. A computerized method
of calculation involving decay
and gamma spectral resolution.**
Talanta, **15**, No. 11, 1165–1175
(1968).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). ANALYTICAL SCIENCES
DIVISION, AERE, HARWELL, DIDCOT,
BERKS., ENGLAND.

6745 Evans, D. J. R., Fritze, K.

**The identification of
metal–protein complexes by gel
chromatography and neutron
activation analysis.**
Anal. Chim. Acta, **44**, No. 1, 1–7
(1969).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). DEPARTMENT OF
CHEMISTRY, MC MASTER UNIVERSITY,
HAMILTON, ONTARIO, CANADA.

6746 Brune, D., Matsson, S., Liden, K.

**Application of a betatron in
photonuclear activation analysis.**
Anal. Chim. Acta, **44**, No. 1, 9–14
(1969).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). AB ATOMENERGI,
STUDSVIK AND DEPARTMENT OF
RADIATION PHYSICS, UNIVERSITY OF
LUND, SWEDEN.

6747 Brune, D.

**Aspects of low temperature
irradiation in neutron activation**

analysis.

Anal. Chim. Acta, **44**, No. 1, 15–20
(1969).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). AB ATOMENERGI,
STUDSVIK, SWEDEN.

6748 De Lange, P. W., De Wet, W. J.,
Venter, J. H.

**Critical evaluation of spiking of
low grade ore samples in
activation analysis for gold and
uranium.**

Talanta, **15**, No. 12, 1488–1491
(1968).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). ATOMIC ENERGY BOARD,
PELINDABA, PRETORIA, SOUTH
AFRICA.

6749 Fisher, D. E.

**The fluorine content of some
chondritic meteorites.**

J. Geophys. Res., **68**, No. 23,
6331–6335 (December 1, 1963).

(ENGLISH). NUCLEAR REACTOR
LABORATORY AND CENTER FOR
RADIOPHYSICS AND SPACE RESEARCH,
CORNELL UNIVERSITY, ITHACA, N.Y.

6750 Andersen, G. H.

**The determination of oxygen in
titanium and refractory metals by
activation analysis.**

Nucleonics in Aerospace, 317–333,
Polishuk, P. (Ed.), New York,
Plenum Press (1968).

(ENGLISH). GENERAL ATOMIC
DIVISION OF GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.

6751 Lukens, H. R., Guinn, V. P.

**The ultra-sensitive determination
of lithium by neutron activation
analysis.**

Nucleonics in Aerospace, 314–416,
Polishuk, P. (Ed.), New York,
Plenum Press (1968).

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.

6752 Holm, D. M., Sanders, W. M.,

Briscoe, W. L., Parker, J. L.
Measurement of the surface

ACTIVATION ANALYSIS – BIBLIOGRAPHY

distribution of carbon and oxygen by ^3He activation and autoradiography.

Nucleonics in Aerospace, 303–313, Polishuk, P. (Ed.), New York, Plenum Press (1968).

(ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.

6753 Polishuk, P., Beavin, R., Gorrell, J. H., Singhal, N. S.

Recent applications of nuclear methods and techniques to aerodynamic testing.

Nucleonics in Aerospace, 259–266, Polishuk, P. (Ed.), New York, Plenum Press (1968).

(ENGLISH). AF FLIGHT DYNAMICS LABORATORY, WRIGHT-PATTERSON AFB, OHIO.

6754 Samsahl, K.

A group separation method for gamma spectrometry of complex radionuclide mixtures – with special application to stainless steel and its corrosion products.

Acta Chem. Scand., **12**, 1292–1296 (1958).

(ENGLISH). NUCLEAR CHEMISTRY LABORATORY, AB ATOMENERGI, STOCKHOLM, SWEDEN.

6755 Shinbori, Y.

Radio activation analysis of trace elements in refined soybean oils. I. Iron, cobalt, and nickel.

Yukagaku, **17**, No. 8, 430–435 (1968).

(JAPANESE) (ENGLISH SUMMARY). ATOMIC RESEARCH LABORATORY OF MUSASHI INSTITUTE OF TECHNOLOGY, OZENJI YOTSUTA, KAWASAKI-SHI, JAPAN.

6821 Albert, P.

Activation analysis in metallurgical chemistry.

Sci. Progr.–Nature, No. 3398, 201–209 (June 1968).

(FRENCH). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CENTRE D'ETUDE DE CHIMIE METALLURGIQUE DE VITRY.

6822 Lavrukhina, A. K., Kashkarov, L. L., Kolesov, G. M., Genaeva, L. I.

Investigation of the distribution of rare elements between the various phases of stone meteorites by neutron activation analysis.

Acta Chim. (Budapest), **57**, No. 3, 353–362 (1968).

(RUSSIAN) (ENGLISH SUMMARY). INSTITUT GEOKHIMII I ANALITCHESKOI KHIMII IM. V.I. VERNADSKOVO AN SSSR, MOSKVA.

6823 Turekian, K. K.

Trace elements in natural waters. YALE-2912-20, 31p. (August 31, 1968).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.

6824 Sterlinski, S.

Determination of Mn, Ag, Sm, In and Ge in copper ores and concentrates by means of non-destructive activation analysis.

Chem. Anal. (Warsaw), **13**, No. 4, 857–869 (1968).

(POLISH) (ENGLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.

6825 Borak, J., Krivanek, M., Kukula, F., Vins, V.

Determination of copper and nickel in iron and gallium by activation analysis.

Chem. Zvesti, **22**, No. 9, 701–706 (1968).

(CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). LACHEMA, RESEARCH INSTITUTE OF PURE CHEMICALS, BRNO AND NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAK ACADEMY OF SCIENCES, REZ U PRAHY, CZECHOSLOVAKIA.

6826 Elek, A., Szabo, E.

Investigation of tungsten by neutron activation analysis.

Determination of the sodium and potassium content.

Acta Chim. (Budapest), **57**, No. 3,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 385-389 (1968).
(RUSSIAN). BUDAPEST, XII.
KONKOLY THEGE UT.
- 6827 Newton, D., Anderson, J., Battye, C. K., Osborn, S. B., Tomlinson, R. W. S.
Activation analysis in vivo using 5 MeV incident neutrons.
Intern. J. Appl. Radiation Isotopes, **20**, No. 1, 61-68 (1969).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). HEALTH PHYSICS AND MEDICAL DIVISION, AERE, HARWELL, BERKSHIRE AND KINGS COLLEGE HOSPITAL AND MEDICAL SCHOOL, LONDON, ENGLAND.
- 6828 Vobecky, M., Petru, F.
Chemistry of less common elements. Non-destructive activation analysis of Brauners didymium.
Collect. Czech. Chem. Commun., **33**, No. 11, 3903-3905 (1968).
(GERMAN). INSTITUT FÜR KERNFORSCHUNG, TSCHECHOSLOWAKISCH E AKADEMIE DER WISSENSCHAFTEN, PRAG UND INSTITUT FÜR ANORGANISCHE CHEMIE, TECHNISCHE HOCHSCHULE FÜR CHEMIE, PRAG.
- 6829 Fedoroff, M.
Application of ion exchange resins to the systematic analysis of impurities in molybdenum by radioactivation.
Bull. Soc. Chim. Fr., No. 8, 3451-3453 (August 1968).
(FRENCH). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CECM-CNRS, VITRY-SEINE.
- 6830 Nargolwalla, S. S., Przybylowicz, E. P., Suddueth, J. E., Birkhead, S. L.
Solution of blank problems in 14 MeV neutron activation analysis for trace oxygen.
Anal. Chem., **41**, No. 1, 168-170 (1969).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 6831 Brune, D., Samsahl, K., Wester, P. O.
Determination of As, Au, Br, Cu, Fe, Mo, Se and Zn in normal and uraemic human whole blood by means of radioactivation.
Clin. Chim. Acta, **13**, 285-291 (1966).
(ENGLISH). AB ATOMENERGI, STUDSVIK, SWEDEN.
- 6832 Dukenbaeva, A. B., Smirnov, V. F.
Determination of arsenic in biological materials by neutron activation analysis.
Gig. Sanit., **33**, No. 6, 67-70 (1968).
(RUSSIAN). CENTRAL INSTITUTE FOR THE ADVANCED TRAINING OF PHYSICIANS. KIEV.
- 6833 Gilbert, E. N., Pronin, V. A., Torgov, V. G.
Neutron activation determination of tantalum in niobium and niobium in tantalum.
Radiokhimiya, **10**, No. 4, 500-501 (1968).
(RUSSIAN). RUSSIA.
- 6834 Shuba, I. D., Razumova, G. N., Vasilev, I. Y.
Separation of a basic germanium oxide during analysis of highly pure germanium by neutron activation.
Radiokhimiya, **10**, No. 4, 501-503 (1968).
(RUSSIAN). RUSSIA.
- 6835 Jarvis, R. E.
Present status of activation analysis applications in criminalistics.
Isotop. Radiat. Technol., **6**, 57-70 (Fall 1968).
(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 6836 Monsecour, M. R., Demildt, A. C.
Determination by neutron activation analysis of the burnup indicator neodymium-148 in irradiated uranium dioxide-pluton-

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- ium dioxide.**
Anal. Chem., **41**, No. 1, 27–31 (1969).
(ENGLISH). STUDIECENTRUM VOOR KERNENERGIE, CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, MOL, BELGIUM.
- 6837 Liebscher, K., Smith, H.
Quantitative interpretation of γ -ray spectra.
Anal. Chem., **40**, 1999–2004 (November 1968).
(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, GLASGOW UNIVERSITY, GLASGOW, SCOTLAND.
- 6838 Samsahl, K.
An automated anion-exchange method for the selective sorption of five groups of trace elements in neutron-irradiated biological material.
AE-215, 14p. (February 1966).
(ENGLISH). AKTIEBOLAGET ATOMENERGI, STOCKHOLM, SWEDEN.
- 6839 Scott, H. D., Coleman, R. F., Cripps, F. H.
Investigation of firearm discharge residues.
AWRE-0-5/66, 49p. (March 1966).
(ENGLISH). AWRE, ALDERMASTON, BERKS., ENGLAND.
- 6840 Guinn, V. P.
Neutron activation analysis with small accelerators.
Proceedings of the Conference on the Use of Small Accelerators for Teaching and Research, April 8-10, 1968, 1–29, Oak Ridge Associated Universities, Oak Ridge, Tennessee (1968).
(ENGLISH). GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIF.
- 6841 Wood, D. E.
Problems in precision activation analysis with fast neutrons.
Proceedings of the Conference on the Use of Small Accelerators for Teaching and Research, April 8-10, 1968, 56–81, Oak Ridge Associated Universities, Oak Ridge, Tennessee (1968).
(ENGLISH). KAMAN NUCLEAR, COLORADO SPRINGS, COLORADO.
- 6842 Kusaka, Y., Tsuji, H.
Systematic radioactivation analysis of trace elements in rice plants. Determination of halogen elements.
Radioisotopes (Tokyo), **17**, 108–112 (March 1968).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, KONAN UNIVERSITY, HIGASHINADA-KU, KOBE, JAPAN.
- 6843 Wilkniss, P. E., Linnenbom, V. J.
The determination of fluorine in seawater by photon activation analysis.
Limnol. Oceanogr., **13**, No. 3, 530–533 (July 1968).
(ENGLISH). NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.
- 6844 Barwinski, A., Buczek, A., Gorski, L., Janczyszyn, J., Kwiecinski, S., Loska, L.
Activation analysis of chromium, silicon, nickel, tungsten in alloys by using a neutron generator.
Isotopenpraxis, **4**, 15–19 (January 1968).
(GERMAN). INSTITUT FUR KERNTECHNIK DER AKADEMIE FUR BERGBAU UND HUTTENWESEN, KRAKOW.
- 6845 Oldham, G., Mathur, S. C.
The use of 14 MeV neutrons in the activation analysis of minerals.
Nuclear Energy, 58–62 (March–April 1969).
(ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY.
- 6846 Johnson, P. F., Tothill, P., Donaldson, G. W. K.
Stable chromium as a tracer for red cells, with assay by neutron activation analysis.
Intern. J. Applied Radiation Isotopes, **20**, 103–108 (1969).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). DEPARTMENTS

ACTIVATION ANALYSIS—ACCESSION NUMBERS

OF MEDICAL PHYSICS AND MEDICINE,
ROYAL INFIRMARY, EDINBURGH,
SCOTLAND.

LABORATORY OF MUSASHI INSTITUTE
OF TECHNOLOGY, JAPAN.

6847 Tolgyessy, J., Lukac, P.
**Activation analysis in legal
chemistry.**
Chem. Listy, **61**, No. 10, 1285–1301
(1967).
(CZECHOSLOVAKIAN). KATEDRA
RADIOCHEMIE A RADIACNEJ CHEMIE,
CHEMICKOTECHNOLOGICKA FAKULTA
SVST, BRATISLAVA.

6848 Dahl, J. B.
**Studies of air pollution using
tracers.**
Tidsskr. Kjemi. Begv. Met., **28**,
109–111 (May 1968).
(NORWEGIAN). INSTITUTT FOR
ATOMENERGI, KJELLER.

6849 Houtman, J. P. W.
**Determination of trace elements by
activation analysis.**
Chem. Weekbl., **63**, No. 40, 450–458
(1967).
(DUTCH). REACTOR INSTITUUT TE
DELFT.

6850 Kusaka, Y., Tsuji, H.
**Nondestructive determination of
elements by prompt gamma ray
spectrometry using ^{241}Am –Be
neutron source.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of
Papers)*, May 13–15, 1969, Paper
A/C-1, 27–28, Nippon Toshi
Center, Kozimachi Kaikan (1969).
(ENGLISH). KONAN UNIVERSITY,
FACULTY OF SCIENCE, JAPAN.

6851 Maruyama, Y., Komiya, K., Manri,
T.
**Determination of copper, arsenic
and mercury in plant by
activation analysis.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of
Papers)*, May 13–15, 1969, Paper
A/C-2, 29–30, Nippon Toshi
Center, Kozimachi Kaikan (1969).
(ENGLISH). ATOMIC RESEARCH

6852 Maruyama, Y., Manri, T., Komiya,
K.
**Determination of chlorine and
bromine in plant by activation
analysis.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of
Papers)*, May 13–15, 1969, Paper
A/C-3, 31–32, Nippon Toshi
Center, Kozimachi Kaikan (1969).
(ENGLISH). ATOMIC RESEARCH
LABORATORY OF MUSASHI INSTITUTE
OF TECHNOLOGY, JAPAN.

6853 Nagao, H., Tani, A., Iwase, T.,
Iio, M.
**Measurement of trace elements in
the human liver by neutron
activation analysis. Bromine and
iodine.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of
Papers)*, May 13–15, 1969, Paper
A/C-4, 33–34, Nippon Toshi
Center, Kozimachi Kaikan (1969).
(ENGLISH). NAIG NUCLEAR RESEARCH
LABORATORY, NIPPON ATOMIC
INDUSTRY GROUP CO., LTD., 2ND
DEPT. OF INTERNAL MEDICINE,
FACULTY OF MEDICINE, UNIVERSITY
OF TOKYO, TOKYO, JAPAN.

6854 Kondo, Y., Miki, R., Azuma, T.
**Nondestructive photoactivation
analysis of Cd, Ba and Pb in PVC
sheets.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of
Papers)*, May 13–15, 1969,
Paper A/C-5, 35–36, Nippon Toshi
Center, Kozimachi Kaikan (1969).
(ENGLISH). KINKI UNIVERSITY AND
RADIATION CENTER OF OSAKA
PREFECTURE, JAPAN.

6856 Miyagawa, K., Ichijima, I., Asai,
A., Nomura, E., Mishima, I.
**The determination of oxygen in
steel by the activation analysis
with fast neutrons.**
*The 9th Japan Conference on
Radioisotopes (Abstracts of*

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Papers*), May 13–15, 1969, Paper A/M–6, 56–57, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). FUJI IRON AND STEEL CO., LTD., HIROHATA WORKS, JAPAN.
- 6857 Inamoto, K., Sato, H.
The use of post-activation technique to trace the origin of aluminate inclusion in steel.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper B/(3)–2, 137–138, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). NIPPON KOKAN KABUSHIKI KAISYA, JAPAN.
- 6858 Horiguchi, Y., Nagatsuka, S., Suzuki, H., Nakajima, K., Okano, Y., Tabushi, K.
Application of rare earth chelate compounds as activable tracer to tidal river flow study.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper B/(3)–3, 139–140, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). TOKYO METROPOLITAN ISOTOPE RESEARCH CENTER. TOKYO, JAPAN.
- 6859 Kobayashi, M., Enomoto, S., Bando, S., Tominaga, H., Wada, N., Maeda, S., Kawakami, Y., Senoo, M., Tachikawa, N., Takenaga, T., Hashimoto, M.
Activable tracer study of distribution of insecticide sprayed from a helicopter.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper B/(3)–4, 141–142, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). RADIOISOTOPE CENTER, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE AND INSTITUTE OF AGRICULTURAL MACHINERY, JAPAN.
- 6860 Suzuki, M., Ohno, S., Okabayashi, H., Hongo, S., Oohata, T.
Distribution and excretion of inhaled Eu by rats as applied for and activable tracer.
- The 9th Japan Conference on Radioisotopes (Abstracts of Papers)*, May 13–15, 1969, Paper B/(11)–6, 256–257, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, JAPAN.
- 6861 Wainerdi, R. E., Yule, H. P., Fite, L. E.
Special considerations in the large scale analysis of biomedical samples by automated nuclear activation methods.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper C/S–5, 295–297, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 6862 Meinke, W. W.
Activation analysis. Present status and future potential.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper C/S–6, 298–300, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 6863 Jervis, R. E.
Recent developments in forensic activation analysis applications.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper C/S–8, 302–303, Nippon Toshi Center, Kozimachi Kaikan (1969).
(ENGLISH). DEPARTMENT OF CHEMICAL ENG. AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, CANADA.
- 6864 Hamaguchi, H.
Recent developments in activation analysis in Japan.
The 9th Japan Conference on Radioisotopes (Abstracts of Papers), May 13–15, 1969, Paper C/S–2, 1–15, Nippon Toshi Center,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Kozimachi Kaikan (1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, THE UNIVERSITY OF
TOKYO, JAPAN.

6920 Lenihan, J. M. A.

**Activation analysis in the
contemporary world. Questions and
answers.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
1-32, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). WESTERN REGIONAL
HOSPITAL BOARD, GLASGOW,
SCOTLAND.

6921 Loucks, R. H., Winchester, J. W.,
Matson, W. R., Tiffany, M. A.

**The halogen composition of aerosol
particles over Lake Michigan.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
36-42, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF
METEOROLOGY AND OCEANOGRAPHY,
UNIVERSITY OF MICHIGAN, ANN
ARBOR, MICHIGAN.

6922 Brar, S. S., Nelson, D. M.,

Kanabrocki, E. L., Moore, C. E.,
Burnham, C. D., Hattori, D. M.

**Thermal neutron activation
analysis of airborne particulate
matter in Chicago Metropolitan
Area.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
43-54, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). RADIOLOGICAL PHYSICS
DIVISION, ARGONNE NATIONAL
LABORATORY, ARGONNE, CHEMISTRY
DEPARTMENT, LOYOLA UNIVERSITY,
CHICAGO, AND CITY OF CHICAGO
DEPARTMENT OF AIR POLLUTION AND
CONTROL, CHICAGO, ILLINOIS.

6923 Dudey, N. D., Ross, L. E.,
Noshkin, V. E.

**Application of activation analysis
and Ge(Li) detection techniques
for the determination of stable
elements in marine aerosols.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
55-61, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS,
AND WOODS HOLE OCEANOGRAPHIC
INSTITUTION, WOODS HOLE, MASS.

6924 De Groot, A. J., Zschuppe, K. H.,
De Bruin, M., Houtman, J. P. W.,
Amin Singgih, P.

**Activation analysis applied to
sediments from various river
deltas.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
62-71, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTE FOR SOIL
FERTILITY, HAREN-GRONINGEN,
REACTOR INSTITUTE, DELFT,
NETHERLANDS, AND ATOMIC REACTOR
CENTRE, BANDUNG, INDONESIA.

6925 Cappadona, C.

**Measurements of movements of solid
substances in water by means of
stable tracers and activation
analysis.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
72-75, NBS Spec. Publ. 312, U.S.
Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). ISTITUTO DI
APPLICAZIONE E IMPIANTI NUCLEARI,
FACOLTA DI INGEGNERIA, UNIVERSITY
OF PALERMO, PALERMO, ITALY.

6926 Leddicotte, G. W.

**Specific activation analysis
techniques and methods for the
assay of trace substances in
aquatic and terrestrial
environments.**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Modern Trends in Activation Analysis*, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 76–80, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). NUCLEAR ENGINEERING AND RADIOLOGICAL SCIENCES, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 6927 Channell, J. K., Kruger, P.
Post-sampling activation analysis of stable nuclides for estuary water tracing.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 81–86, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). CIVIL ENGINEERING DEPARTMENT, STANFORD UNIVERSITY, STANFORD, CALIF.
- 6928 Linstedt, K. D., Kruger, P.
Neutron activation analysis of vanadium in natural waters.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 87–92, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). CIVIL ENGINEERING DEPARTMENT, UNIVERSITY OF COLORADO, BOULDER, COLORADO, AND STANFORD UNIVERSITY, STANFORD, CALIF.
- 6929 Guinn, V. P., Bellanca, S. C.
Neutron activation analysis identification of the source of oil pollution of waterways.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 93–97, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 6930 Rancitelli, L. A., Cooper, J. A., Perkins, R. W.
- The multielement analysis of biological material by neutron activation and direct instrumental techniques.**
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 101–109, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 6931 Linekin, D. M., Balcius, J. F., Cooper, R. D., Brownell, G. L.
Multielement analysis of pathological tissue.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 110–113, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). MASSACHUSETTS GENERAL HOSPITAL AND U.S. ARMY NATICK LABORATORIES, BOSTON, MASS.
- 6932 Comar, D., Crouzel, C., Chasteland, M., Riviere, R., Kellershohn, C.
The use of neutron capture gamma radiations for the analysis of biological samples.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 114–127, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). ATOMIC ENERGY COMMISSION, DEPARTMENT OF BIOLOGY, FREDERIC JOLIOU HOSPITAL, ORSAY, FRANCE.
- 6933 Strain, W. H., Rob, C. G., Pories, W. J., Childers, R. C., Thompson, M. F., Hennesen, J. A., Graber, F. M.
Element imbalances of atherosclerotic aortas.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 128–133, NBS Spec. Publ. 312, U.S. Government Printing Office,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Washington, D.C. 20402 (1969).
(ENGLISH). UNIVERSITY OF
ROCHESTER, ROCHESTER, N.Y.,
WRIGHT-PATTERSON AFB, OHIO, AND
GULF GENERAL ATOMIC, SAN DIEGO,
CALIF.

**screening program based on
automated neutron activation
analysis.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
147-155, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

6934 Abu-Samra, A., Leddicotte, G. W.

**A useful neutron activation
analysis method for the
determination of tellurium in
human tissues.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
134-137, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). RESEARCH REACTOR
FACILITY, UNIVERSITY OF MISSOURI,
COLUMBIA, MISSOURI.

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS, AND CYSTIC FIBROSIS CARE,
TEACHING AND DETECTION CENTER,
TEXAS INSTITUTE FOR
REHABILITATION AND RESEARCH,
TEXAS MEDICAL CENTER, HOUSTON,
TEXAS.

6935 Bird, E. D., Emery, J. F., Lupica,
S. B., Lyon, W. S.

**Neutron activation analysis of
brain for copper and manganese.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
138-141, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). BOWMAN GRAY MEDICAL
SCHOOL, WINSTON-SALEM, N.C., AND
ANALYTICAL CHEMISTRY DIVISION,
OAK RIDGE NATIONAL LABORATORY,
OAK RIDGE, TENNESSEE.

6938 Woodruff, G. L., Wilson, W. E.,
Yamamoto, Y., Babb, A. L., Stamm,
S. J.

**Clinical experience with the use
of neutron activation analysis in
the diagnosis of cystic fibrosis.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
156-159, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON
AND CHILDRENS ORTHOPEDIC HOSPITAL
AND MEDICAL CENTER, SEATTLE,
WASHINGTON.

6936 Gordon, C. M., Larson, R. E.

**Neutron activation analysis of
barnacle shells.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
142-146, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.

6939 Fourcy, A., Neuburger, M., Garrec,
C., Fer, A., Garrec, J. P.

**Activation analysis in plant
biology. Radioecological
applications using simple or
automated radiochemical
separation techniques.**

*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
160-169, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

(ENGLISH). LABORATOIRE DE
BIOLOGIE VEGETALE DU CENTRE
D'ETUDES NUCLEAIRES DE GRENOBLE,
GRENOBLE, FRANCE.

6937 Fite, L. E., Wainerdi, R. E.,
Yule, H. P., Harrison, G. M.,
Bickers, G., Doggett, R.

**Sampling methodology development
in a large scale cystic fibrosis**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6940 Lambert, J. P. F., Simpson, R. E.
Determination of vanadium by neutron activation analysis at nanogram levels in diets for experimental animals.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 170–176, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C.
- 6941 Haller, W. A., Filby, R. H., Rancitelli, L. A., Cooper, J. A.
The instrumental determination of fifteen elements in plant tissue by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 177–183, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, DEPARTMENT OF CHEMISTRY, PULLMAN, WASHINGTON, AND BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 6942 Hadzistelios, I., Grimanis, A. P.
Simultaneous determination of arsenic, antimony and mercury in biological materials by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 184–189, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). CHEMISTRY DIVISION, NUCLEAR RESEARCH CENTER DEMOCRITOS, ATHENS, GREECE.
- 6943 Nadkarni, R. A., Ehmann, W. D.
Instrumental neutron activation analysis of tobacco products.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 190–196, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 6944 Grimanis, A. P.
Simultaneous determination of arsenic and copper in wines and biological materials by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 197–202, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). CHEMISTRY DIVISION, NUCLEAR CENTER DEMOCRITOS, ATHENS, GREECE.
- 6945 Brune, D.
Aspects of low temperature irradiation in neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 203–206, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). AB ATOMENERGI STUDSVIK, NYKOPING, SWEDEN.
- 6946 Heydorn, K.
Determination of the specific activity of commercial iodine-125 preparations by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 207–211, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). ISOTOPE LABORATORY, RESEARCH ESTABLISHMENT RISO, ROSKILDE, DENMARK.
- 6947 Lux, F., Braunstein, L., Strauss, R.
Investigations on the age and place of origin of paintings by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 216–225, NBS Spec. Publ. 312,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). INSTITUT FÜR
RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MÜNCHEN, GARCHING BEI
MÜNCHEN, GERMANY.
- 6948 Gibbons, D., Lawson, D.
**An investigation of the silver
content of Roman coinage by
neutron activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
226–229, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). WANTAGE RESEARCH
LABORATORY (AERE), WANTAGE,
BERKSHIRE, ENGLAND.
- 6949 Meijers, P.
**Nondestructive activation analysis
of ancient coins using charged
particles and fast neutrons.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
230–245, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). INSTITUUT VOOR
KERNPHYSISCH ONDERZOEK,
AMSTERDAM, NETHERLANDS.
- 6950 Olin, J. S., Sayre, E. V.
**The analysis of English and
American pottery of the American
colonial period.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
246–250, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.
- 6951 Hoffman, C. M., Brunelle, R. L.,
Snow, K. B., Pro, M. J.
**Comparison of forensic soil
specimens by neutron activation
analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
251–255, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ALCOHOL AND TOBACCO
TAX DIVISION, INTERNAL REVENUE
SERVICE, WASHINGTON, D.C.
- 6952 Perkons, A. K., Jervis, R. E.
**Recent forensic applications of
instrumental activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
256–264, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). THE CENTRE OF
FORENSIC SCIENCES, TORONTO, AND
DEPARTMENT OF CHEMICAL
ENGINEERING AND APPLIED
CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, CANADA.
- 6953 Schlesinger, H. L., Lukens, H. R.,
Settle, D. M.
**The examination of actual case
evidence samples by neutron
activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
265–271, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIF.
- 6954 Van Den Berg, A. J., De Goeij, J.
J. M., Houtman, J. P. W., Zegers,
C.
**Arsenic content of human hair
after washing as determined by
activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
272–282, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). REACTOR INSTITUUT,
DELFT, NETHERLANDS.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 6955 Williamson, T. G., Harrison, W. W.
Comparison of activation analysis and spark source mass spectrometry for forensic applications.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 283–287, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA.
- 6956 Das, H. A., Van Raaphorst, J. G., Umans, H. J. L. M.
Routine determination of Al, K, Cr, and Sn in geochemistry by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 291–301, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, NEDERLAND.
- 6957 Kiesel, W.
Determination of trace elements in meteorites by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 302–307, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). ANALYTICAL INSTITUTE OF THE UNIVERSITY OF VIENNA, VIENNA, WAHRINGERSTRASSE, AUSTRIA.
- 6958 Ehmann, W. D., Mc Kown, D. M.
The nondestructive determination of iridium in meteorites using gamma–gamma coincidence spectrometry.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 308–314, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 6959 Michelsen, O. B., Steinnes, E.
Determination of some rare earths in rocks and minerals by neutron activation and gamma–gamma coincidence spectrometry.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 315–319, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 6960 Parekh, P. P., Sankar Das, M., Athavale, V. T.
Neutron activation method for the isotopic analysis of lead.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 320–326, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). ANALYTICAL DIVISION, BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY, INDIA.
- 6961 Rosholt, J. N., Szabo, B. J.
Determination of protactinium by neutron activation and alpha spectrometry.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 327–333, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.
- 6962 Higuchi, H., Tomura, K., Takahashi, H., Onuma, N., Hamaguchi, H.
Use of a Ge(Li) detector after simple chemical group separation in the activation analysis of rock samples. IV. Simultaneous determination of strontium and barium.
Modern Trends in Activation Analysis, De Voe, J.R., and La

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Fleur, P.D. Editors, Vol. I,
334–338, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). THE INSTITUTE FOR
ATOMIC ENERGY, RIKKYO UNIVERSITY,
YOKOSUKA, AND DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
THE UNIVERSITY OF TOKYO, TOKYO,
JAPAN.
- 6963 Filby, R. H., Haller, W. A.
**Activation analysis of geochemical
materials using Ge(Li) detectors.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
339–346, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). NUCLEAR REACTOR,
WASHINGTON STATE UNIVERSITY,
PULLMAN, WASHINGTON.
- 6964 Randle, K., Goles, G. G.
**Ge(Li) detectors in the activation
analysis of geological samples.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
347–352, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CENTER FOR
VOLCANOLOGY, UNIVERSITY OF
OREGON, EUGENE, OREGON.
- 6965 Landstrom, O., Samsahl, K.,
Wenner, C. G.
**An investigation of trace elements
in marine and lacustrine deposits
by means of a neutron activation
method.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
353–366, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). AB ATOMENERGI,
STOCKHOLM, AND DEPARTMENT OF
QUATERNARY RESEARCH, UNIVERSITY
OF STOCKHOLM, STOCKHOLM, SWEDEN.
- 6966 Uken, E. A., Santos, G. G.,
Wainerdi, R. E.
**Geochemical surveying by means of
neutron activation analysis with
possible application to
continental drift studies.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
367–378, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, COLLEGE OF
ENGINEERING, TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.
- 6967 Santos, G. G., Wainerdi, R. E.
**Volcanological studies using
activation analysis techniques.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
379–387, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.
- 6968 Meloni, S., Maxia, V., Buzzi, S.
**Aluminum and silicon abundances of
some Italian meteorites as
determined by instrumental
activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
388–394, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). LABORATORIO DI
RADIOCHIMICA, ISTITUTO DI CHIMICA
GENERALE, UNIVERSITA DI PAVIA,
PAVIA, ITALY.
- 6969 Millard, H. T.
**Neutron activation analysis of
individual cosmic spherules.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
395–398, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.

- 6970 Gordon, G. E., Dran, J. C.,
Baedecker, P. A., Anderson, C. F.
L.

Extensions of the use of Ge(Li) detectors in instrumental neutron activation analysis of geological samples.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 399–403, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY AND LABORATORY FOR NUCLEAR SCIENCE, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.

- 6971 Mandler, J. W., Reed, J. H.
Neutron techniques for in situ elemental analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 404–408, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ILLINOIS INSTITUTE OF TECHNOLOGY, RESEARCH INSTITUTE, CHICAGO, ILLINOIS.

- 6972 Case, D. R., Laul, J. C., Wechter,
M. A., Schmidt–Bleek, F.,
Lipschutz, M. E.

Simultaneous measurement of seventeen trace elements in eight geochemical standards. A novel adaptation of neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 409–412, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY, PURDUE UNIVERSITY, LAFAYETTE, IND.

- 6973 Gorski, L., Janczyszyn, J., Loska,
L.

On the feasibility of the determination of water, salt and

sulphur in crude oil by means of neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 420–429, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, KRAKOW, AL. MICKIEWICZA, POLAND.

- 6974 Gibbons, D., Lawson, D., Metcalfe,
B., Simpson, H.

Investigation of material transfer by neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 430–436, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). WANTAGE RESEARCH LABORATORY (AERE), WANTAGE, BERKSHIRE, ENGLAND.

- 6975 Iddings, F. A., Arman, A.

Applications of activation analysis to determination of cement in concrete.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 437–443, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). LOUISIANA STATE UNIVERSITY, BATON ROUGE, LOUISIANA.

- 6976 Barber, W. H., Dengel, O. H.,
Vogt, R. H., Strain, C. V.

Determination of sodium and potassium in solid propellants.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 444–449, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). NAVAL ORDNANCE STATION, INDIAN HEAD, MARYLAND AND NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 6977 Kuusi, J.
The application of isotopic neutron sources to chemical analysis for process control in the metallurgical industry.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 450–456, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). TECHNICAL UNIVERSITY OF HELSINKI, REACTOR LABORATORY, OTANIEMI, HELSINKI, FINLAND.
- 6978 Cosgrove, J. F.
Routine determination of major components by activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 457–459, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). THE BAYSIDE LABORATORY, RESEARCH CENTER OF GENERAL TELEPHONE AND ELECTRONICS LABORATORIES INC., BAYSIDE, N.Y.
- 6979 Anders, O. U.
Instrumental neutron activation analysis using reactor, Ge(Li) detector and computer.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 460–465, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). THE DOW CHEMICAL COMPANY, RADIOCHEMISTRY RESEARCH LABORATORY, MIDLAND, MICHIGAN.
- 6980 Doctor, Z. K., Nadkarni, R. A., Haldar, B. C.
Substoichiometric determination of molybdenum and palladium by neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 468–472, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.
- 6981 Alian, A.
Activation analysis by standard addition and solvent extraction. Determination of certain trace elements in antimony.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 473–474, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, ANALYTICAL DIVISION, ATOMIC ENERGY ESTABLISHMENT, CAIRO, U.A.R.
- 6982 Merlini, M., Ravera, O., Bigliocca, C.
Nondestructive determination of elements in specific freshwater microplankton by activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 475–481, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). EURATOM JOINT RESEARCH CENTER, ISPRA, ITALY.
- 6983 Mantel, M., Gilat, J., Amiel, S.
Isotopic analysis of uranium by neutron activation and high resolution gamma-ray spectrometry.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 482–489, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). SOREQ NUCLEAR RESEARCH CENTRE, YAVNE, ISRAEL.
- 6984 Naughton, W. F., Jester, W. A.
Pulsed neutron activation analysis system for short-lived radioisotopes.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 490–494, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). THE PENNSYLVANIA
STATE UNIVERSITY, NUCLEAR REACTOR
FACILITY, UNIVERSITY PARK, PA.
- 6985 Brownlee, J. L.
**The detection and determination of
fissionable species by neutron
activation – delayed neutron
counting.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
495–500, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, LAWRENCE RADIATION
LABORATORY, LIVERMORE, CALIF.
- 6986 Wahlgren, M. A., Wing, J.,
Stewart, D. C.
**A high-intensity ^{241}Am – Be – ^{242}Cm
neutron source.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
501–506, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CHEMISTRY DIVISION,
ARGONNE NATIONAL LABORATORY,
ARGONNE, ILLINOIS.
- 6987 Laverlochere, J.
**New facilities for activation
analysis at the Grenoble Center
for Nuclear Studies.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
507–511, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CENTRE D'ETUDES
NUCLEAIRES DE GRENOBLE, GRENOBLE,
FRANCE.
- 6988 Eisele, J. A., Larson, R. E.
**The nuclear analysis program of
the NRL cyclotron facility.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
512–516, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 6989 Martin, J.
**The localization of impurities in
activation analysis demonstrated
by analyses of semiconductor
silicon.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
517–526, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SIEMENS RESEARCH
LABORATORIES, ERLANGEN, GERMANY.
- 6990 Nagy, L. G., Torok, G., Szokolyi,
L., Giber, J.
**The determination of copper and
gold trace impurities in high
purity gallium by activation
analysis with pretreatment.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
527–535, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). DEPARTMENT OF
PHYSICAL CHEMISTRY, POLYTECHNICAL
UNIVERSITY, NATIONAL OFFICE OF
MEASURES AND TUNGSRAM ELECTRIC
CORPORATION, BUDAPEST, HUNGARY.
- 6991 Ortega, R. F.
**Neutron activation analysis of
laser crystals.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
536–540, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). DEPARTMENT OF
CHEMICAL ENGINEERING, IMPERIAL
COLLEGE OF SCIENCE AND
TECHNOLOGY, LONDON, ENGLAND.
- 6992 Arroyo A., A., Toro G., J.
Determination of traces of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**selenium and tellurium in sulphur
by neutron activation.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 541–543, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTO DE ASUNTOS NUCLEARES, BOGOTA, D.E., COLOMBIA.

CORPORATION, STERLING FOREST RESEARCH CENTER, TUXEDO, N.Y.

6996 Cappadona, C.

**Major constituents determination
in substances by activation
analysis.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 574–576, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ISTITUTO DI APPLICAZIONI E IMPIANTI NUCLEARI, FACOLTA DI INGEGNERIA, UNIVERSITY OF PALERMO, PALERMO, ITALY.

6993 Rudelli, M. D., Rocca, H. C.,
Baro, G. B.

**Nondestructive activation analysis
for arsenic and antimony in soft
soldering alloys.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 544–550, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). COMISION NACIONAL DE ENERGIA ATOMICA, DEPARTAMENTO APLICACION (G.E.), BUENOS AIRES, ARGENTINA.

6997 Girardi, F.

**Radiochemical separations for
activation analysis.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 577–616, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). CHEMISTRY DEPARTMENT, EUROPEAN COMMUNITY JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ISPRA, ITALY.

6994 Maslov, I. A., Lucknitsky, V. A.,
Karnaukhova, N. M., Karaganova,
G. I.

**The application of the activation
analysis to the investigation of
sorption and sublimation
properties of high-temperature
materials.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 551–562, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). IOFFE PHYSICO-TECHNICAL INSTITUTE, ACADEMY OF SCIENCES, LENINGRAD, USSR.

6998 Cram, S. P., Varcoe, F. T.

**Gas chromatographic separations in
neutron activation analysis.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 620–623, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.

6995 Nass, H. W.

**Diversified instrumental nuclear
analysis methods using a reactor.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 563–573, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). UNION CARBIDE

6999 Peterson, S. F., Travesi, A.,
Morrison, G. H.

**Rapid group separation method for
neutron activation analysis of
geological materials.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. I, 624–633, NBS Spec. Publ. 312, U.S. Government Printing Office,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Washington, D.C. 20402 (1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, CORNELL UNIVERSITY,
ITHACA, N.Y.
- 7000 Thompson, B. A.
**Group radiochemical separations. A
practical approach to activation
analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
634–638, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 7002 Meloni, S., Brandone, A., Maxia,
V.
**Chromium separation by inorganic
exchangers in activation analysis
of biological materials.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
642–645, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). LABORATORIO DI
RADIOCHIMICA, ISTITUTO DI CHIMICA
GENERALE, UNIVERSITA DI PAVIA,
PAVIA, ITALY.
- 7003 Cleyrergue, C., Deschamps, N.,
Albert, P.
**Determination of the distribution
coefficients of the elements of
the IB, VB, VIA and VIB groups in
anionic ion exchange resin in the
water–hydrochloric acid–acetone
mixture.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
646–654, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CNRS–C.E.C.M., VITRY,
FRANCE.
- 7004 May, S., Pinte, G.
**Quantitative determination of
impurities in nuclear graphites**
by radioactivation methods.
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
655–665, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SACLAY NUCLEAR
RESEARCH CENTRE, SACLAY, FRANCE.
- 7005 Qureshi, I. H., Mc Clendon, L., La
Fleur, P. D.
**Radiochemical separations for
activation analysis using
bis(2-ethyl-hexyl) orthophosphoric
acid.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. I,
666–671, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 7006 De Soete, D., Gijbels, R., Hoste,
J.
**Neutron, photon and charged
particle reactions for activation
analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
699–750, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
BELGIUM.
- 7007 Tran, M. D., Tousset, J.
**Study of a beam of charged
particles, their slowing down,
and their energy distribution in
a thick, complex target for
activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
754–767, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). INSTITUT DE PHYSIQUE
NUCLEAIRE, FACULTE DES SCIENCES
DE LYON, LYON, FRANCE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7008 Rook, H. L., Schweikert, E. A.,
Wainerdi, R. E.
**Range transformation of activation
curves and their application to
quantitative charged particle
activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
768–773, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.
- 7009 Debrun, J. L., Barrandon, J. N.,
Albert, P.
**Contribution to activation
analysis by charged particles,
determination of carbon and
oxygen in pure metals,
possibilities of sulphur
determination.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
774–784, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CNRS-CENTRE D'ETUDES
DE CHIMIE METALLURGIQUE, VITRY,
FRANCE.
- 7010 Ricci, E.
**Influence of channeling in
customary ^3He activation
analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
785–790, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 7011 Butler, J. W., Wolicki, E. A.
**Surface analysis of gold and
platinum disks by activation
methods and by prompt radiation
from nuclear reactions.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
791–793, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). NUCLEAR PHYSICS
DIVISION, U.S. NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 7012 Barrandon, J. N., Albert, P.
**Determination of oxygen present at
the surface of metals by
irradiation with 2 MeV tritons.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
794–801, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). CNRS-C.E.C.M., VITRY,
FRANCE.
- 7013 Peisach, M., Pretorius, R.
**The determination of stable
calcium isotopes by charged
particle irradiation.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
802–810, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SOUTHERN UNIVERSITIES
NUCLEAR INSTITUTE, FAURE, C.P.,
SOUTH AFRICA.
- 7014 Tran, M. D., Chenaud, A., Giron,
H., Tousset, J.
**Cross sections of ^{18}F formation by
deuteron bombardment of oxygen
and fluorine. Applications to
oxygen analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
811–818, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). INSTITUT DE PHYSIQUE
NUCLEAIRE, UNIVERSITE DE LYON,
LYON, FRANCE.
- 7015 Engelmann, C., Gosset, J.,
Loeuillet, M., Marschal, A.,
Ossart, P., Boissier, M.
**Examples of determination of light
elements in various high purity**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

materials, by gamma photon and charged particle activation.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 819–828, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). CENTRE D'ETUDES NUCLEAIRES DE SACLAY, DEPARTEMENTE DE METALLURGIE, GIF S/YVETTE (ESSONNE), FRANCE.

7016 Lutz, G. J.

Self-shielding corrections in photon activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 829–834, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

7017 Mackintosh, W. D., Jervis, R. E.

Photon activation analysis of oxygen and carbon in a eutectic mixture of lead and bismuth using a LINAC.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 835–837, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ATOMIC ENERGY OF CANADA LTD., ONTARIO, CANADA AND UNIVERSITY OF TORONTO, TORONTO, CANADA.

7018 Revel, G., Chaudron, T., Debrun, J. L., Albert, P.

Determination of carbon in high purity iron by irradiation in photons.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 838–841, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). CNRS–C.E.C.M., VITRY, FRANCE.

7019 Nozaki, T., Yatsurugi, Y., Akiyama, N., Imai, I.

Charged particle activation analysis for carbon, nitrogen, and oxygen in semiconductor silicon.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 842–846, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YAMAMOTO–MACHI, SAITAMA, AND KOMATSU ELECTRONIC METALS CO., LTD., HIRATSUKA, KANAGAWA, JAPAN.

7020 Cardarelli, J. A., Dell, E. S., Burrows, B. A.

Be-7 as a dosimeter during photon activation of iodine.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 847–852, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). BOSTON V.A. HOSPITAL, BOSTON, MASS., AND YALE ACCELERATOR, NEW HAVEN, CONN.

7021 Lukens, H. R.

Some recently determined photonuclear reaction yields and cross sections for formation of several isomers.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 853–859, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.

7022 Bruninx, E.

Spectrum, yield and use of fast neutrons produced by 20 MeV helium-3 ions, 14 MeV protons and 7.5 MeV deuterons on a thick beryllium target.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 860–867, NBS Spec. Publ. 312, U.S. Government Printing Office,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Washington, D.C. 20402 (1969).
(ENGLISH). PHILIPS RESEARCH
LABORATORIES, N.V. PHILIPS
GLOEILAMPENFABRIEKEN, EINDHOVEN,
NETHERLANDS.

Fleur, P.D. Editors, Vol. II,
888–894, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

7023 Fleischer, A. A.

**The production of fast neutrons by
small cyclotrons.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

868–873, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). THE CYCLOTRON

CORPORATION, BERKELEY, CALIF.

7027 Jessen, P. L.

**Long term operating experience
with high yield, sealed tube
neutron generators.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

895–899, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). KAMAN NUCLEAR,

COLORADO SPRINGS, COLORADO.

7024 Wilkniss, P. E.

**Use of a 60 MeV LINAC for fast and
variable energy neutron
activation analysis.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

874–878, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). NAVAL RESEARCH

LABORATORY, WASHINGTON, D.C.

7028 Downton, D. W., Wood, J. D. L. H.

**A 10^{11} neutrons per second tube
for activation analysis.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

900–904, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). SERVICES ELECTRONICS

RESEARCH LABORATORY, BALDOCK,

HERTS., ENGLAND.

7025 Nargolwalla, S. S., Przybylowicz,

E. P., Suddueth, J. E., Birkhead,

S. L.

**Blank considerations in 14 MeV
neutron activation analysis for
trace oxygen.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

879–887, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). NATIONAL BUREAU OF

STANDARDS, WASHINGTON, D.C.

7029 Reifenschweiler, O.

**A high output sealed-off neutron
tube with high reliability and
long life.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

905–910, NBS Spec. Publ. 312,

U.S. Government Printing Office,

Washington, D.C. 20402 (1969).

(ENGLISH). PHILIPS RESEARCH

LABORATORIES, N.V. PHILIPS

GLOEILAMPENFABRIEKEN, EINDHOVEN,

THE NETHERLANDS.

7026 Przybylowicz, E. P., Smith, G. W.,

Suddueth, J. E., Nargolwalla, S.

S.

**Activation analysis of chloride
and iodide in photographic
emulsions using 14.7 and 2.8 MeV
neutrons.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

7030 Ashe, J. B., Berry, P. F., Rhodes,
J. R.

**On-stream activation analysis
using sample recirculation.**

Modern Trends in Activation

Analysis, De Voe, J.R., and La

Fleur, P.D. Editors, Vol. II,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 913-917, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.
- 7031 Jervis, R. E., Al Shahrstani, H.,
Nargolwalla, S. S.
**Fast neutron continuous activation
analysis of dilute solutions.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
918-924, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). DEPARTMENT OF
CHEMICAL ENGINEERING AND APPLIED
CHEMISTRY, UNIVERSITY OF TORONTO,
TORONTO, CANADA, AND NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.
- 7032 Wiernik, M., Amiel, S.
**Use of very short-lived nuclides
in nondestructive activation
analysis with a fast shuttle
rabbit.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
925-928, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.
- 7033 Givens, W. W., Mills, W. R.,
Caldwell, R. L.
Cyclic activation analysis.
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
929-937, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). MOBIL RESEARCH AND
DEVELOPMENT CORPORATION, FIELD
RESEARCH LABORATORY, DALLAS,
TEXAS.
- 7034 Jurs, P. C., Isenhour, T. L.
**An analog computer controlled
gamma-ray spectrometer for
comparative activation analysis.**
- Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
938-941, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON.
- 7035 Carpenter, B. S.
**Determination of trace quantities
of uranium in biological
materials by the nuclear track
technique.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
942-945, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). NATIONAL BUREAU OF
STANDARDS, ANALYTICAL CHEMISTRY
DIVISION, WASHINGTON, D.C.
- 7036 Olivier, C., Peisach, M.
**Surface analysis of medium weight
elements by prompt charged
particle spectrometry.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
946-952, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SOUTHERN UNIVERSITIES
NUCLEAR INSTITUTE, FAURE, C.P.,
SOUTH AFRICA.
- 7037 Reinig, W. C., Evans, A. G.
**Californium-252. A new neutron
source for activation analysis.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
953-957, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). SAVANNAH RIVER
LABORATORY, E.I. DU PONT DE
NEMOURS AND CO., AIKEN, SOUTH
CAROLINA.
- 7038 Heath, R. L.
Gamma-ray spectrometry and

ACTIVATION ANALYSIS—ACCESSION NUMBERS

automated data systems for activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 959–1031, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). NATIONAL REACTOR TESTING STATION, IDAHO FALLS, IDAHO.

7039 Voigt, A. F., Becknell, D. E., Menapace, L. M.

Comparison of solid state and scintillation gamma-ray spectrometry in analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1035–1042, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND CHEMISTRY DEPARTMENT, IOWA STATE UNIVERSITY, AMES, IOWA.

7040 Dooley, J. A.

Measurement and comparison of detector efficiencies.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1043–1048, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). AIR FORCE FLIGHT DYNAMICS LABORATORY, WRIGHT-PATTERSON AFB, OHIO.

7041 Tunncliff, D. D., Bowers, R. C., Wyld, G. E. A.

Instrumentation for computerized neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1049–1053, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIFORNIA.

7042 Cooper, J. A., Rancitelli, L. A., Perkins, R. W., Haller, W. A., Jackson, A. L.

An anticoincidence shielded Ge(Li) gamma-ray spectrometer and its application to neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1054–1061, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ENVIRONMENTAL AND LIFE SCIENCE DIVISION, BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.

7043 Currie, R. L., Mc Pherson, R., Morrison, G. H.

A coincidence-anticoincidence system for activation analysis employing a split NaI(Tl) annulus and a large volume Ge(Li) detector.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1062–1068, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). CORNELL UNIVERSITY, ITHACA, NEW YORK.

7044 Johnson, R. A.

A dual channel analyzer and efficient coincidence systems for activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1069–1074, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIFORNIA.

7045 Parker, J. L., Holm, D. M., Barnes, B. K.

Characteristics and applications of a large sodium iodide detector assembly.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1075–1080, NBS Spec. Publ. 312,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW
MEXICO.
- 7046 Euler, B. A., Covell, D. F.,
Yamamoto, S.
**A Compton-suppressed coincidence
gamma-ray scintillation
spectrometer with large NaI(Tl)
crystals.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1081-1087, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). U.S. NAVAL DEFENSE
LABORATORY, SAN FRANCISCO,
CALIFORNIA.
- 7047 Dooley, J. A., Gorrell, J. H.,
Polishuk, P., Young, M. H.
**Computerized quantitative analysis
of high-resolution spectra.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1090-1096, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). AIR FORCE FLIGHT
DYNAMICS LABORATORY,
WRIGHT-PATTERSON AFB, OHIO, AND
LOUISIANA STATE UNIVERSITY, BATON
ROUGE, LOUISIANA.
- 7048 Trombka, J. I., Schmadebeck, R. L.
**On-line data analysis of digital
pulse-height spectra.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1097-1101, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). GODDARD SPACE FLIGHT
CENTER, GREENBELT, MARYLAND.
- 7049 Brauer, F. P., Schlosser, J. E.
Spectral data handling systems.
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1101-1107, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORY, RICHLAND, WASHINGTON.
- 7050 Yule, H. P.
**Hevesy, a computer program for
analysis of activation analysis
gamma-ray spectra.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1108-1110, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.
- 7051 Girardi, F., Guzzi, G., Di Cola,
G., Becker, W., Termanini, A.
**Development of a direct connection
between an activation analysis
laboratory and an IBM 360/65
computer.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1111-1115, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). C.C.R., ISPRA, ITALY.
- 7052 Pierce, T. B., Webster, R. K.,
Hallett, R., Mapper, D.
**Developments in the use of small
digital computers in activation
analysis systems.**
*Modern Trends in Activation
Analysis*, De Voe, J.R., and La
Fleur, P.D. Editors, Vol. II,
1116-1120, NBS Spec. Publ. 312,
U.S. Government Printing Office,
Washington, D.C. 20402 (1969).
(ENGLISH). ANALYTICAL SCIENCES
DIVISION, A.E.R.E., HARWELL,
ENGLAND.
- 7053 Thompson, C. J.
**On-line activation analysis with a
PDP-9 computer.**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1121–1126, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ATOMIC ENERGY OF CANADA LIMITED, COMMERCIAL PRODUCTS, OTTAWA, CANADA.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1138–1143, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). OAK RIDGE NATIONAL LABORATORY. OAK RIDGE, TENNESSEE.

7054 Burrus, W. R.

Man-machine interaction in analysis of pulse-height spectra.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1127, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). TENNECOMP, INC., OAK RIDGE, TENNESSEE.

7058 Wakat, M. A.

Catalogue of gamma rays emitted by radionuclides.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1144–1147, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). SAVANNAH RIVER LABORATORY, E.I. DU PONT DE NEMOURS AND CO., AIKEN, SOUTH CAROLINA.

7055 Lutz, G. J., Boreni, R. J.,

Maddock, R. S., Meinke, W. W.

The NBS automated activation analysis information retrieval system.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1128–1130, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

7059 Dooley, J. A., Gorrell, J. H.,

Thompson, J. M., Hoffman, E.

Computerized identification of reactor-produced isotopes.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1148–1153, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). AIR FORCE FLIGHT DYNAMICS LABORATORY, ENGINEERING DIGITAL COMPUTATION DIVISION, WRIGHT-PATTERSON AFB, OHIO AND UNIVERSITY OF DAYTON, DAYTON, OHIO.

7056 Braun, T., Bujdoso, E., Miskei, M.

Edge-punched card literature retrieval system for activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1131–1137, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTE OF INORGANIC AND ANALYTICAL CHEMISTRY, L. EOTVOS UNIVERSITY, AND RESEARCH INSTITUTE FOR NON-FERROUS METALS, BUDAPEST, HUNGARY.

7060 Yule, H. P.

Computation of experimental results in activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1155–1204, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

7057 Baker, P. S.

Isotopes Information Center.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 7061 Lucas, H. F., Edgington, D. N.
Computer analysis of gamma-ray spectra. Validity of the results.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1207–1214, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). RADIOLOGICAL PHYSICS DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 7062 Currie, L. A.
The discovery of errors in the detection of trace components in gamma spectral analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1215–1219, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 7063 Pasternack, B., Harley, N.
Regression analysis of gamma-ray spectrometer data with an application to the assay of human radioactivity burdens.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1220–1230, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). INSTITUTE OF ENVIRONMENTAL MEDICINE, NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK, N.Y.
- 7064 Steyn, J. J., Andrews, D. G.
Computer gain changing of scintillation spectra.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1231–1237, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). NUS CORPORATION, WASHINGTON, D.C., AND UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 7065 Ralston, H. R., Wilcox, G. E.
A computer method of peak area determinations from Ge(Li) gamma spectra.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1238–1243, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). BIO-MEDICAL DIVISION AND COMPUTATION DIVISION, LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.
- 7066 Gunnink, R., Niday, J. B.
Quantitative analysis of unknown mixtures by computer reduction of Ge(Li) spectra.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1244–1245, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.
- 7067 Tunnicliff, D. D., Wyld, G. E. A.
A computer-based system for neutron activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1246–1249, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIFORNIA.
- 7068 Lukens, H. R.
Rapid manual resolution of multi-component gamma-ray photopeaks.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1250–1255, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

7069 Yule, H. P.

Computer studies of complex full energy peaks using second and third derivatives.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1256–1261, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

7073 Marsh, R. H., Allie, W.

High precision activation analysis of sodium using an internal standard technique.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1284–1290, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). FORD MOTOR COMPANY, SCIENTIFIC RESEARCH STAFF, DEARBORN, MICHIGAN.

7070 Coleman, R. F.

The precision of multi element techniques in activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1262–1267, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). UKAEA, ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKSHIRE, ENGLAND.

7074 Meinke, W. W., Cali, J. P.

NBS standard reference materials available for activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1291–1293, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). OFFICE OF STANDARD REFERENCE MATERIALS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

7071 Dugain, F.

Contribution to improvements in accuracy and reproducibility of routine activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1268–1278, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). CENTRE DE RECHERCHES DU GROUPE PECHINEY, FRANCE.

7075 Cali, J. P.

The role of activation analysis in the NBS standard reference material program.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1294–1297, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). OFFICE OF STANDARD REFERENCE MATERIALS, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

7072 Fritze, K., Robertson, R.

Precision in the neutron activation analysis for gold in standard rocks G-1 and W-1.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1279–1283, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.

7076 Gijbels, R., Speecke, A., Hoste, J.

An oxygen standard for the determination of oxygen in steel by 14 MeV neutron activation analysis.

Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1298–1305, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).

(ENGLISH). INSTITUTE FOR NUCLEAR

ACTIVATION ANALYSIS – BIBLIOGRAPHY

SCIENCES, GHENT UNIVERSITY,
PROEFUINSTRATT, GHENT, BELGIUM.

CHEMISTRY, BRUNEL COLLEGE,
LONDON, ENGLAND.

- 7077 Rancitelli, L. A., Tanner, T. M.,
Haller, W. A.
A high purity cellulose as a possible biological reference material.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1306–1310, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 7078 Freeman, D. H.
Microstandards for activation analysis.
Modern Trends in Activation Analysis, De Voe, J.R., and La Fleur, P.D. Editors, Vol. II, 1311–1316, NBS Spec. Publ. 312, U.S. Government Printing Office, Washington, D.C. 20402 (1969).
(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 7079 Leonhardt, W.
Activation analysis.
Handbuch der Messtechnik in der Betriebskontrolle, V, Chapter 11, 649–736 (1969).
(GERMAN). DRESDEN, GERMANY.
- 7080 Roueche, A., Monnier, D., Härdi, W.
Determination of cobalt in 18/8 steel by the production of ^{60m}Co by activation with thermal neutrons.
Chimia, 18, 114 (1964).
(FRENCH). UNIVERSITE DE GENEVE.
- 7081 Morris, D. F. C., Hill, N.
Radiochemical methods for the determination of trace elements in nickel alloys. Part I. Determination of tellurium.
Metallurgia, LXXI, No. 424, 99–102 (February 1965).
(ENGLISH). DEPARTMENT OF
- 7082 Kodochigov, P. N., Glazunov, M. P., Mednis, I. V., Spitsyn, V. I.
Determination of impurities in natural diamonds by activation analysis method.
Neytronoaktivatsionnyy Analiz, Riga, 115–134 (1966).
(RUSSIAN). RUSSIA.
- 7083 Spitsyn, V. I., Artsikhovskiy, A. V., Glazunov, M. P., Kodochigov, P. N., Shchapova, Y. L.
Radioactivation study of soil samples from the Novgorod archaeological operation.
Sovetskaya Arkheologiya, No. 4, 243–247 (1962).
(RUSSIAN). RUSSIA.
- 7084 Lenihan, J. M. A., Comar, D., Riviere, R., Kellershohn, C.
Estimating thyroid iodine by activation analysis in vivo.
J. Nucl. Med., 9, 110–115 (1968).
(ENGLISH). WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND AND SERVICE HOSPITALIER FREDERIC JOLIOT, ORSAY, FRANCE.
- 7085 Lenihan, J. M. A.
Nuclear activation analysis. Instrumentation in Nuclear Medicine, Chapter 13, 309–325, Academic Press (1967).
(ENGLISH). REGIONAL PHYSICS DEPARTMENT, WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.
- 7086 Krishnan, S. S.
Firing distance determination by neutron activation analysis.
J. Forensic Sci., 12, 471–483 (October 1967).
(ENGLISH). THE CENTRE OF FORENSIC SCIENCES, TORONTO, CANADA.
- 7087 Fell, G. S., Smith, H., Howie, R. A.
Neutron activation analysis for

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**copper in biological material
applied to Wilsons disease.**

J. Clin. Pathol., **21**, 8–11
(January 1968).

(ENGLISH). GLASGOW ROYAL
INFIRMARY AND THE DEPARTMENT OF
FORENSIC MEDICINE, UNIVERSITY OF
GLASGOW.

ANALITYCZNEJ IBJ, WARSZAWA,
POLSKA.

7093 Foldzinska, A.

**Determination of rhenium in
molybdenite by neutron
activation.**

*Krajowe Symp. Zastosow. Izotop.
Tech. 3rd, Stettin, Pol.*, Sect.
29, 5p. (1966).

(POLISH). ZAKLAD CHEMII
ANALITYCZNEJ IBJ, WARSZAWA,
POLSKA.

7089 Olivares, G. J., Aronow, L.,
Kerdel-Vegas, F.

**Extraction of seleno-cystathionine
and identification by activation
analysis.**

Acta Cient. Venez., **18**, 9–12
(1967).

(SPANISH) (ENGLISH SUMMARY).
DEPARTMENT OF PHARMACOLOGY,
STANFORD UNIVERSITY SCHOOL OF
MEDICINE, PALO ALTO, CALIF., Y
ESCUELA DE MEDICINA JOSE VARGAS,
FACULTAD DE MEDICINA, UNIVERSIDAD
CENTRAL DE VENEZUELA, CARACAS.

7094 Eisner, U., Mark, H. B.

**Semipermeable ion-exchange
membranes as a preconcentration
matrix for trace analysis by
electrochemical and neutron
activation techniques.**

Talanta, **16**, 27–35 (January 1969).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

7090 Kolaski, H., Siewierski, J.

**Determination of trace amounts of
cobalt and manganese in
electrolytic iron by means of
neutron activation analysis.**

*Krajowe Symp. Zastosow. Izotop.
Tech. 3rd, Stettin, Pol.*, Sect.
45, 11p. (1966).

(POLISH). INSTYTUT METALURGII
ZELAZA, GLIWICE, POLSKA.

7095 Bowen, H. J. M.

**The uptake of gold by marine
sponges.**

J. Mar. Biol. Assn. U.K., **48**,
275–277 (June 1968).

(ENGLISH). CHEMISTRY DEPARTMENT,
UNIVERSITY OF READING, BERKS. ENGLAND.

7091 Wodkiewicz, L.

**Determination of some rare earths
by a combination of neutron
activation analysis and ion
exchange chromatography.**

*Krajowe Symp. Zastosow. Izotop.
Tech. 3rd, Stettin, Pol.*, Sect.
31, 9p. (1966).

(POLISH). ZAKLAD CHEMII
ANALITYCZNEJ IBJ, WARSZAWA,
POLSKA.

7096 Youh, C. C.

**Radiometric determination of
microamounts of rare earth
elements in thorium dioxide.**

Hua Hsueh, No. 1, 27–30 (1967).

(CHINESE) (ENGLISH SUMMARY).
DEPARTMENT OF GEOLOGY, NATIONAL
TAIWAN UNIVERSITY, TAIWAN, CHINA.

7092 Zmijewska, W., Minczewski, J.

**Neutron activation analysis of
some components of soil
solutions.**

*Krajowe Symp. Zastosow. Izotop.
Tech. 3rd, Stettin, Pol.*, Sect.
30, 6p. (1966).

(POLISH). ZAKLAD CHEMII

7097 Chiba, M.

**Activation analysis of oxygen in
metallic beryllium by fast
neutrons.**

*Proc. Mem. Lect. Meet. Anniv.
Found. Nat. Res. Inst. Metals,
10th, Tokyo*, 199–201 (1966).

(ENGLISH). METAL CHEMISTRY
DIVISION, NATIONAL RESEARCH
INSTITUTE OF METALS, TOKYO.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 7098 Scheer, K. E.
Applications of a nuclear reactor in clinical research and practice.
Therapiewoche, **17**, 2060–2062 (December 13, 1967).
 (GERMAN). NUKLEARMEDIZINISCHES INSTITUT, DEUTSCHES KREBSFORSCHUNGSZENTRUM, HEIDELBERG.
 39, 15p. (1966).
 (POLISH). INSTYTUT TECHNIKI JADROWEJ AGH, KRAKOW, POLSKA.
- 7099 Anong Nilubol, M. L., Chayawatanangkur, K., Kritalugsana, S.
Manganese toxication in the human body determined by activation analysis.
J. Nucl. Med., **9**, 178–180 (May 1968).
 (ENGLISH). THE OFFICE OF THAI ATOMIC ENERGY COMMISSION AND SIRIAJ HOSPITAL, BANGKOK, THAILAND.
- 7101 Beress, M.
The application of neutron activation analysis to the investigation of manganesian rocks.
Radioisotope Instrum. Ind. Geophys., **1**, 365–380, Proceedings Symposium Warsaw, 1965 (1966).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). ROLAND EOTVOS STATE GEOPHYSICAL INSTITUTE, BUDAPEST, HUNGARY.
- 7102 Palmer, H. E., Nelp, W. B., Murano, R., Rich, C.
The feasibility of in vivo neutron activation analysis of total body calcium and other elements of body composition.
Phys. Med. Biol., **13**, 269–279 (April 1968).
 (ENGLISH). PACIFIC NORTHWEST LABORATORIES, BATTELLE MEMORIAL INSTITUTE, RICHLAND, WASHINGTON.
- 7103 Niewodniczanski, J.
Application of activation analysis with thermal neutrons to determination of copper in ores under mining conditions.
Krajowe Symp. Zastosow. Izotop. Tech. 3rd, Stettin, Pol., Sect.
- 7104 Tiwari, P. N.
Activation analysis.
J. Sci. Ind. Res., **27**, No. 12, 468–474 (1968).
 (ENGLISH). INDIAN INSTITUTE OF TECHNOLOGY, DELHI, INDIA.
- 7105 Downs, W. E.
A ^{124}Sb –Be source of thermal neutrons for precision analysis and tracer production.
Nucl. Appl., **5**, 55–61 (August 1968).
 (ENGLISH). ATOMIC ENERGY OF CANADA LIMITED, COMMERCIAL PRODUCTS, OTTAWA, CANADA.
- 7106 Engelmann, C., Loeuillet, M.
Photon activation for a nondestructive determination of small quantities of oxygen in very pure sodium.
Bull. Soc. Chim. Fr., No. 2, 680–683 (1969).
 (ENGLISH). DEPARTEMENT DE METALLURGIE CEN SACLAY.
- 7107 Kimberlin, J., Charoonratana, C., Wasson, J. T.
Neutron activation determination of iridium in meteorites.
Radiochim. Acta, **10**, No. 1–2, 69–75 (1969).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF.
- 7108 Gangadharam, E. V., Parekh, P. P.
Neutron activation analysis of microgram and submicrogram quantities of thorium in ultramafic rocks.
Radiochim. Acta, **10**, No. 1–2, 65–68 (1968).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). CENTRE OF ADVANCED STUDY IN GEOLOGY, UNIVERSITY OF SAUGAR, SAGAR, M.P., INDIA AND ANALYTICAL DIVISION, BHABHA

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ATOMIC RESEARCH CENTRE, TROMBAY,
BOMBAY, INDIA.

elements by using a semiconductor detector.

Analyst (London), **94**, No. 1106,
189–197 (1969).

- 7109 Mikhailov, G. I., Starchik, L. P.
**Analysis of lithium according to
the yield of the reaction
 $Li^7(\alpha, \alpha')Li^7$.**

Soviet Atomic Energy, **24**, No. 6,
707–708 (June 1968).

(ENGLISH TRANSLATION). RUSSIA.

(ENGLISH). CENTRAL RESEARCH
LABORATORY, TOKYO SHIBAURA
ELECTRIC CO. LTD., AND NAIG
NUCLEAR RESEARCH LABORATORY,
KAWASAKI, JAPAN.

- 7110 Gambaryan, R. G., Shtan, A. S.
**Neutron-resonance analysis of the
elements in a substance.**

Soviet Atomic Energy, **25**, No. 2,
867–872 (August 1968).

(ENGLISH TRANSLATION). RUSSIA.

- 7115 Eckhoff, N. D., Fan, L. T., Kimel,
W. R.

**Cost minimization in neutron
activation analysis and isotope
production.**

Nucl. Appl., **6**, 16–22 (January
1969).

(ENGLISH). KANSAS STATE
UNIVERSITY, MANHATTAN, KANSAS.

- 7111 Kramer, H. H., Hampton, W. J.,
Molinski, V. J., Finn, J. J.,
Wahl, W. H.

**Geographic characterization of
chromium ore deposits by
elemental analysis.**

Nucl. Appl., **5**, 260–262 (October
1968).

(ENGLISH). UNION CARBIDE
CORPORATION, TUXEDO, N.Y.

- 7116 Vasilev, I. Y., Razumova, G. N.,
Shuba, I. D.

**Determination of trace impurities
in indium arsenide by neutron
activation.**

Radiokhimiya, **10**, No. 5, 596–598
(1968).

(RUSSIAN). RUSSIA.

- 7112 Marsh, R. H., Allie, W.

**Precision determination of
gadolinium in cadmium fluoride by
neutron activation analysis.**

Anal. Chim. Acta, **45**, No. 1,
179–182 (1969).

(ENGLISH). SCIENTIFIC RESEARCH
DEPARTMENT, FORD MOTOR COMPANY,
DEARBORN, MICHIGAN.

- 7117 Kochevanov, V. A., Kuznetsov, R.
A.

**Sensitivity of photoactivation
analysis using a betatron with an
internal target.**

Radiokhimiya, **10**, 578–584 (1968).

(RUSSIAN). RUSSIA.

- 7113 Fite, L. E.

**Neutron activation analysis of
trace elements in tissue (nail
clippings) for early detection of
cystic fibrosis.**

ORO-3796-2, 46p. (September 1968).

(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.

- 7118 Gilbert, E. N., Pronin, V. A.,
Ivanov, G. V.

**Determination of traces of
platinum, iridium, gold, silver,
and copper in palladium by a
neutron activation method.**

Radiokhimiya, **10**, No. 6, 747–748
(1968).

(RUSSIAN). RUSSIA.

- 7114 Fujii, I., Inouye, T., Muto, H.,
Onodera, K., Tani, A.

**Investigation of a rapid and
nondestructive fast neutron
activation analysis for many**

- 7119 Gilbert, E. N., Pronin, V. A.,
Silvanovich, Y. A., Ivanov, G. V.

**Neutron activation determination
of gold, silver, platinum,
palladium, and iridium in a
rhodium powder.**

Radiokhimiya, **10**, No. 6, 748–749

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (1968).
(RUSSIAN). RUSSIA.
- 7120 Iddings, F. A.
Nuclear methods in air and water pollution analysis.
Environ. Sci. Technol., **3**, No. 2, 132–140 (1969).
(ENGLISH). NUCLEAR SCIENCE CENTER, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LOUISIANA.
- 7121 Laverlochere, J.
Applications of activation analysis to refractory materials.
Bull. Soc. Fr. Ceram., No. 9, 39–44 (1968).
(FRENCH). CHEF DU GROUPE ANALYSE PAR ACTIVATION, C.E.N.G., GRENOBLE.
- 7122 Zmijewska, W., Minczewski, J.
Determination of molybdenum in soil extracts by neutron activation analysis.
Chem. Anal. (Warsaw), **14**, No. 1, 23–27 (1969).
(ENGLISH). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.
- 7123 Keane, J. R., Fisher, E. M. R.
Analysis of trace elements in airborne particulates by neutron activation and gamma ray spectrometry.
Atmos. Environ., **2**, No. 6, 603–614 (1968).
(ENGLISH). HEALTH PHYSICS AND MEDICAL DIVISION, AERE, HARWELL, DIDCOT, BERKS., ENGLAND.
- 7124 Rakovic, M., Prouza, Z.
The resonance neutrons in activation analysis. Part 3. Determination of gold in cadmium telluride.
Isotopenpraxis, **4**, 138–140 (April 1968). Veterinary Research Centre, Prague.
(ENGLISH). VETERINARY RESEARCH CENTER, PRAGUE, CZECHOSLOVAKIA.
- 7125 Haller, W. A., Rancitelli, L. A., Cooper, J. A.
Instrumental determination of trace elements in plant tissue by neutron activation analysis and Ge(Li) gamma-ray spectrometry.
J. Agr. Food Chem., **16**, 1036–1040 (November–December 1968).
(ENGLISH). PACIFIC NORTHWEST LABORATORY, BATTELLE MEMORIAL INSTITUTE, RICHLAND, WASHINGTON.
- 7126 Guinn, V. P.
Neutron activation analysis and its application to the analysis of food products.
J. Amer. Oil Chem. Soc., **45**, No. 11, 767–774 (1968).
(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 7127 Overman, R. F., Corey, J. C., Hawkins, R. H.
Use of gamma-neutron reaction for determining D₂O in H₂O and in tracing soil moisture.
DP-MS-68-9, 13p. (May 15, 1968).
(ENGLISH). SAVANNAH RIVER LABORATORY, E.I. DU PONT DE NEMOURS AND CO., AIKEN, S.C.
- 7128 Agelao, G., Dardanoni, Z. T.
Neutron activation analysis of materials containing two elements having slightly different isotopic half-lives. II.
Atti Accad. Sci., Lettere Arti Palermo, Pt. I, **25**, 333–349 (1964–1965).
(ITALIAN) (FRENCH AND ENGLISH SUMMARIES). ITALY.
- 7129 Coleman, R. F., Cripps, F. H., Stimson, A., Scott, H. D.
The trace-element content of human head hair in England and Wales and the application to forensic science.
Proceedings of the First International Conference on Forensic Activation Analysis, 203–220 (1967).
(ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, UKAEA, ALDERMASTON, BERKSHIRE, ENGLAND.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 7130 Prosperi, D., Salvetti, F.
Neutron activation method of analysis.
Com. Naz. Energ. Nucl., Notiz., **14**, 88–95 (January 1968).
 (ITALIAN). CNEN-CSN, CASACCIA, ITALY.
- Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.–Mat. Nauk*, No. 1, 40–43 (1968).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT.
- 7131 Veveris, O. E., Mikhelson, G. G., Pelekis, Z. E., Pelekis, L. L., Taure, I. Y.
Instrumental neutron activation analysis of selenium in biological samples.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 4, 13–16 (1968).
 (RUSSIAN). INSTITUTE OF PHYSICS, RIGA.
- 7132 Lobanov, E. M., Blinkov, D. I., Dutov, A. G., Zinovev, N. V.
Determination of Hf in Ti and Ti compounds.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.–Mat. Nauk, No. 2, 94–95 (1968).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT.
- 7133 Kalnach, L. P., Graudinya, L. Y., Ozols, A. E.
Neutron activation autoradiographic studies of gold distribution in band-shaped germanium dendrites.
Izv. Akad. Nauk SSSR, Neorg. Mater., **4**, 643–649 (May 1968).
 (RUSSIAN). INSTITUTE OF PHYSICS, RIGA.
- 7134 Gureev, E. S., Islamov, T., Lobanov, E. M., Miranskii, I. A., Khakdarov, N. A.
Neutron activation determination of Re in molybdenum concentrates.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.–Mat. Nauk, No. 1, 56–58 (1968).
 (RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT.
- 7135 Ganiev, A. G., Nazmitdinov, M. K., Sabirov, S. S.
Radioactivation method for determining microimpurities in vanadium pentoxide.
- 7136 Diebolt, J.
Some recent applications of neutron activation analysis studied by the section of radioelement application of the C.E.A. (S.A.R.) at Grenoble.
Bull. Inform. A.T.E.N., Suppl., No. 69, 7–11 (January–February 1968).
 (FRENCH). S.A.R., FRANCE.
- 7137 Jansen, C., Leddicotte, G. W., Navarrette, M.
Activation analysis of serum vitamin B₁₂.
Radiology, **91**, 813 (October 1968).
 (ENGLISH). LOMA LINDA UNIVERSITY MEDICAL CENTER, LOMA LINDA, CALIF., AND UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 7138 Rakovic, M.
Study of precipitation in neutron activation analysis (III). Separation of cuprous iodide in determination of copper in biological material.
Chem. Zvesti, **22**, No. 10, 748–754 (1968).
 (ENGLISH) (CZECH AND RUSSIAN SUMMARIES). DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR MEDICINE, MEDICAL FACULTY, CHARLES UNIVERSITY. PRAGUE, CZECHOSLOVAKIA.
- 7139 Prouza, Z., Rakovic, M.
Non-destructive neutron activation analysis of gold in biological material based on the analysis of the disintegration curve.
Cas. Lek. Cesk., **107**, 1053–1056 (August 23, 1968).
 (CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH AND FRENCH SUMMARIES). VETERINARY RESEARCH CENTER, PRAGUE, CZECHOSLOVAKIA.
- 7140 Guinn, V. P., Schmitt, R. A.
Determination of pesticide

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- residues by neutron-activation analysis.**
Residue Rev., **5**, 148–174 (1964).
 (ENGLISH). GENERAL DYNAMICS CORPORATION, GENERAL ATOMIC DIVISION, SAN DIEGO, CALIF.
- 7141 Kramer, H. H., Wahl, W. H.
Activation analysis.
Principles of Nuclear Medicine, 811–832, Wagner, H.N., Jr. (Ed.), Philadelphia, W.B. Saunders Co. (1968).
 (ENGLISH). UNION CARBIDE CORPORATION, TUXEDO, N.Y.
- 7142 Schramel, P.
Detection of oxygen in metals, especially steel, by activation analysis with 14.5 MeV neutrons.
Oesterr. Akad. Wiss., Math.-Naturwiss. Kl., Sitzungsber. Abt. II, **174**, No. 8–10, 535–557 (1965).
 (GERMAN). INSTITUT FÜR RADIUMFORSCHUNG.
- 7143 Schiltz, J. C.
Determination of gallium in rocks by neutron activation.
Methodes Phys. Anal., 69–73 (January–March 1966).
 (FRENCH). SERVICE DE MINÉRALOGIE, C.E.N., COMMISSARIAT A L'ÉNERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE.
- 7144 Eife, K. H.
Application of neutron capture gamma spectrometry for study of lignite strata in bore holes (Part I).
Z. Angew. Geol., **12**, 489–496 (1966).
 (GERMAN). INSTITUT FÜR ERDOLCHEMISCHE UND GASINDUSTRIE, MOSKAU, UDSSR.
- 7145 Doge, H. G., Grosse-Ruyken, H.
Determination of impurities in molybdenum and tungsten by activation analysis.
Isotopenpraxis, **4**, 262–268 (July 1968).
 (GERMAN). INSTITUT FÜR
- METALLPHYSIK UND REINSTMETALLE, DRESDEN, DER DEUTSCHEN AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, UND INSTITUT FÜR ANORGANISCHE UND ANORGANISCH-TECHNISCHE CHEMIE DER TU DRESDEN.
- 7146 Warburton, J. A., Young, L. G.
Neutron activation procedures for silver analysis in precipitation.
J. Appl. Meteorol., **7**, 433–443 (June 1968).
 (ENGLISH). DESERT RESEARCH INSTITUTE, UNIVERSITY OF NEVADA, RENO, NEVADA.
- 7147 Warburton, J. A., Young, L. G.
Neutron activation measurements of silver in precipitation from locations in Western North America.
J. Appl. Meteorol., **7**, 444–448 (June 1968).
 (ENGLISH). DESERT RESEARCH INSTITUTE, UNIVERSITY OF NEVADA, RENO, NEVADA.
- 7148 Brunfelt, A. O., Steinnes, E.
Cerium and europium content of some standard rocks.
Chem. Geol., **2**, 199–207 (September 1967).
 (ENGLISH). MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, AND ISOTOPE LABORATORY, INSTITUTE FOR ATOMENERGI, KJELLER, NORWAY.
- 7149 Vados, I., Mohai, M., Upor, E.
Determination of tantalum in rocks by neutron activation analysis.
Acta Chim. (Budapest), **59**, No. 2, 171–180 (1969).
 (ENGLISH). MECSEK ORE MINING ENTERPRISE, PECS.
- 7150 Albert, P.
Analysis of iron of high purity.
Mem. Sci. Rev. Met., **65**, Spec. No., 3–15 (June 15, 1968).
 (FRENCH). CENTRE D'ÉTUDES DE CHIMIE MÉTALLURGIQUE, VITRY, FRANCE.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- 7151 Aubouin, G., Dabrowski, H.,
Laverlochere, J., Vial, J.
**Destructive and nondestructive
analysis of soils and minerals by
neutron activation.**
CEA-CONF-1183, 15p. (November
1968).
(FRENCH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, CENTRE
D'ETUDES NUCLEAIRES, GRENOBLE,
FRANCE.
- 7152 Schiltz, J. C.
**Activation analysis of certain
trace elements in geological
materials.**
CEA-CONF-1162, 14p. (1968).
(FRENCH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, CENTRE
D'ETUDES NUCLEAIRES,
FONTENAY-AUX-ROSES, FRANCE.
- 7153 Nielsen, J. M.
**Pacific Northwest Laboratory
annual report for 1967 to the
USAEC Division of Biology and
Medicine.**
BNWL-715 (Part 2), 225p. (October
1968).
(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORY, RICHLAND, WASHINGTON.
- 7154 Thompson, B. A., La Fleur, P. D.
**Rapid group radiochemical
separations for activation
analysis of steels.**
Anal. Chem., **41**, 852-855 (May
1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 7155 Lutz, G. J.
**Calculation of sensitivities in
photon activation analysis.**
Anal. Chem., **41**, 424-427 (March
1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 7156 Haerdi, W.
**Elemental analysis by gamma
spectrometry after neutron
activation. Nomographic
determination of limits of
determination and interferences.**
Nukleonik, **7**, 58-64 (1965).
(FRENCH). LABORATORIE DE CHIMIE
ANALYTIQUE ET DE CHIMIE MINERALE
DE L'UNIVERSITE, ECOLE DE CHIMIE
DE GENEVE.
- 7160 Monnier, D., Haerdi, W., Loepfe,
E., Meyer, J. M.
**Determination of manganese in
nylon by thermal neutron
activation.**
*Travaux de Chimie Alimentaire
D'Hygiene*, **56**, 292-299 (1965).
(FRENCH). LABORATOIRES DE CHIMIE
MINERALE ET DE CHIMIE ANALYTIQUE
DE L'UNIVERSITE DE GENEVE.
- 7161 Haerdi, W.
**Identification and determination
of radioactive isotopes by gamma
spectrometry. Some applications.**
*Bulletin de l'Institut National
Genevois*, **LXII**, 97-98 (1964).
(FRENCH). UNIVERSITE DE GENEVE.
- 7162 Parker, J. L., Holm, D. M.
**Measurement of carbon gradient in
stainless steel by He-3
activation and autoradiography.**
LA-4008, 9p. (April 1968).
(ENGLISH). LOS ALAMOS SCIENTIFIC
LABORATORY, UNIVERSITY OF
CALIFORNIA, LOS ALAMOS, NEW
MEXICO.
- 7163 Amiel, S., Peisach, M.
**The use of delayed neutrons in
activation analysis.**
Atomnaya Energiya, **14**, No. 6,
536-543 (June 1963).
(RUSSIAN). ISRAEL ATOMIC ENERGY
COMMISSION, SOREQ NUCLEAR
ESTABLISHMENT, REHOVOTH, ISRAEL.
- 7164 Kalinin, A. I., Kuznetsov, R. A.,
Moiseev, V. V., Tsepurnek, V. E.
**Radioactivation analysis of
silicon dioxide using ion
exchange chromatography. I. Group
separation of trace impurities
followed by gamma-spectrometric
determination.**
Radiokhimicheskie Metody

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Opredeleniya Mikroelementov*,
161–167, Moscow–Leningrad,
Izdatelstvo Nauka (1965).
(RUSSIAN). RUSSIA.
- 7165 Zasukhin, E. N., Kalinin, A. E.,
Kuznetsov, R. A., Moiseev, V. V.
**Radioactivation analysis of
silicon dioxide by means of ion
exchange chromatography. Part 2.
Separation and determination of
alkali metals.**
*Radiokhimicheskie Metody
Opredeleniya Mikroelementov*,
168–171, Moscow–Leningrad,
Izdatelstvo Nauka (1965).
(RUSSIAN). RUSSIA.
- 7166 Kalinin, A. I., Kuznetsov, R. A.,
Moiseev, V. V.
**Radioactivation analysis of
silicon dioxide by means of ion
exchange chromatography. Part 3.
Separation of elements on an
anion exchanger in the Cl⁻ and
OH⁻ forms.**
*Radiokhimicheskie Metody
Opredeleniya Mikroelementov*,
171–176, Moscow–Leningrad,
Izdatelstvo Nauka (1965).
(RUSSIAN). RUSSIA.
- 7167 Kalinin, A. I., Kuznetsov, R. A.,
Moiseev, V. V.
**Radioactivation analysis of
silicon dioxide by means of ion
exchange chromatography. Part 4.
Separation of elements on an
anion exchanger from solution of
hydrofluoric acid and a mixture
of hydrofluoric and hydrochloric
acid.**
*Radiokhimicheskie Metody
Opredeleniya Mikroelementov*,
176–179, Moscow–Leningrad,
Izdatelstvo Nauka (1965).
(RUSSIAN). RUSSIA.
- 7168 Kalinin, A. I., Kuznetsov, R. A.,
Moiseev, V. V., Sokolova, M. N.
**Radioactivation analysis of
silicon dioxide by means of ion
exchange chromatography. Part 5.
Separation and determination of
alkaline earth metals.**
- Radiokhimicheskie Metody
Opredeleniya Mikroelementov*,
180–181, Moscow–Leningrad,
Izdatelstvo Nauka (1965).
(RUSSIAN). RUSSIA.
- 7169 Soroyu, M., Cherey, M.
**Radiogenic argon determination by
the activation method.**
*Bull. Kom. Opred. Absol. Geol.
Form.*, No. 8, 80–81 (1967).
(RUSSIAN). RUSSIA.
- 7170 Plaksin, I. N., Starchik, L. P.,
Tustanovskii, V. T.
**Determination of silicon, iron,
and manganese in ferrosilicon by
neutron activation analysis.**
*Nauch. Soobshch., Inst. Gorn.
Dela*, 29, 106–111 (1965).
(RUSSIAN). RUSSIA.
- 7171 Babaev, A., Mamadzhanov, F. I.
**Determination of some elemental
impurities in quartz materials by
neutron activation analysis.**
Dokl. Akad. Nauk Tadzh. SSR, 11,
No. 8, 13–16 (1968).
(RUSSIAN). INSTITUTE OF PHYSICS
AND TECH., DUSHANBE, USSR.
- 7172 Mac Arthur, I. R., Morris, D. F.
C.
**Radiochemical methods for the
determination of trace elements
in nickel alloys. Part II.
Determination of chlorine,
phosphorus and sulphur.**
Metallurgia, LXXX, 37–42 (July
1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, BRUNEL UNIVERSITY,
LONDON, ENGLAND.
- 7173 European Atomic Energy Community
Activation analysis.
EUR-3940.E, 45–54.
(ENGLISH). ISPRA, ITALY.
- 7174 Kukula, F., Krivanek, M.
**The use of thenoyltrifluoroacetone
for the substoichiometric
determination of scandium by
activation analysis.**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

*Proceedings of the Analytical
Chemical Conference, Budapest,*
408-415 (1966).

(ENGLISH). INSTITUTE OF NUCLEAR
RESEARCH, CZECHOSLOVAKIAN ACADEMY
OF SCIENCES, REZ, PRAGUE,
CZECHOSLOVAKIA.

7175 Schropf, F., Oehlschlaegel, G.,
Drabner, J.
**Detection of heavy metals in the
skin in argyrosis by means of
neutron activation analysis.**
Arch. Klin. Exp. Dermatol., **231**,
398-407 (1968).

(GERMAN) (ENGLISH SUMMARY).
DERMATOLOGISCHE KLINIK UND
POLIKLINIK, UND INSTITUT FÜR
GERICHTLICHE MEDIZIN DER
UNIVERSITÄT WÜRZBURG.

7176 Przybylowicz, E. P., Smith, G. W.,
Suddueth, J. E., Nargolwalla, S.
S.

**Activation analysis of halogens in
photographic emulsions using a
neutron generator.**

Anal. Chem., **41**, 819-823 (May
1969).

(ENGLISH). INSTITUTE FOR
MATERIALS RESEARCH, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

7177 Tani, A., Matsuda, Y., Yuasa, Y.,
Kawai, N.

**Repeated pulse activation analysis
for measurement of short
half-life radionuclides.**

Radiochem. Radioanal. Letters, **1**,
No. 3, 155-161 (1969).

(ENGLISH). NAIG NUCLEAR RESEARCH
LABORATORY, NIPPON ATOMIC
INDUSTRY GROUP CO., LTD.,
SUEHIRO-CHO, KAWASAKI, JAPAN.

7178 Adams, F., Dams, R.

**A computer assisted qualitative
analysis of γ -ray spectra.**
Radiochem. Radioanal. Letters, **1**,
No. 3, 163-175 (1969).

(ENGLISH). INSTITUTE OF NUCLEAR
SCIENCES, GHENT UNIVERSITY,
BELGIUM.

7180 Rafaeloff, R.

**A neutron activation analysis
method for the determination of
oxygen.**

Radiochem. Radioanal. Letters, **1**,
No. 3, 199-202 (1969).

(ENGLISH). SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.

7181 Brunfelt, A. O., Steinnes, E.

**A simple neutron activation method
for silver in rocks.**

Radiochem. Radioanal. Letters, **1**,
No. 3, 219-224 (1969).

(ENGLISH). MINERALOGICAL-GEOLOGI
CAL MUSEUM, UNIVERSITY OF OSLO,
AND INSTITUTT FOR ATOMENERGI,
ISOTOPE LABORATORIES, KJELLER,
NORWAY.

7182 La Fleur, P. D.

**Determination of molybdenum in
steels and biological materials
by activation analysis.**

Radiochem. Radioanal. Letters, **1**,
No. 3, 225-229 (1969).

(ENGLISH). ACTIVATION ANALYSIS
SECTION, ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

7183 Lyon, W. S.

**Basic concepts of activation
analysis.**

CONF-671111, 439-454 (June 1968).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

7184 Leddicotte, G. W.

**Activation analysis. Techniques
and methodology.**

CONF-671111, 455-464 (June 1968).

(ENGLISH). RESEARCH REACTOR
FACILITY, UNIVERSITY OF MISSOURI,
COLUMBIA, MISSOURI.

7185 De Voe, J. R.

**Standard reference materials for
trace analysis in the life
sciences.**

CONF-671111, 465-469 (June 1968).

(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 7186 Cooper, R. D., Linekin, D. M.,
Brownell, G. L.
**Analysis of biologic tissue
without chemical separation.**
CONF-671111, 471-490 (June 1968).
(ENGLISH). U.S. ARMY NATICK
LABORATORIES, NATICK,
MASSACHUSETTS INSTITUTE OF
TECHNOLOGY, CAMBRIDGE, AND
MASSACHUSETTS GENERAL HOSPITAL,
CAMBRIDGE, MASS.
- 7187 Tang, C. W., Tomlinson, R. H.
**Potential applications of
activation analysis in clinical
medicine.**
CONF-671111, 491-499 (June 1968).
(ENGLISH). MC MASTER UNIVERSITY,
HAMILTON, ONTARIO, CANADA.
- 7188 Lowman, J. T., Heagan, B., Krivit,
W.
**Stable isotopes as biological
tracers.**
CONF-671111, 501-514 (June 1968).
(ENGLISH). UNIVERSITY OF
MINNESOTA HOSPITALS, MINNEAPOLIS,
MINNESOTA.
- 7189 Bethard, W. F.
Trace elements.
CONF-671111, 515-522 (June 1968).
(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIFORNIA.
- 7190 Lenihan, J. M. A.
**Activation analysis in forensic
science.**
CONF-671111, 523-531 (June 1968).
(ENGLISH). WESTERN REGIONAL
HOSPITAL BOARD, GLASGOW,
SCOTLAND.
- 7191 Guinn, V. P.
**Availability and present status of
activation analysis.**
CONF-671111, 533-543 (June 1968).
(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIFORNIA.
- 7192 Keller, O. L., Ferguson, D. E.,
Nichols, J. P.
**Prospects of transuranium isotopes
as neutron sources.**
CONF-671111, 545-558 (June 1968).
- (ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 7193 Nagasawa, H., Wakita, H.
**Neutron activation analysis of
potassium in ultrabasic rocks.**
Geochem. J. (Nagoya), **1**, 149-154
(November 1967).
(ENGLISH). FACULTY OF SCIENCE,
GAKUSHUIN UNIVERSITY, MEJIRO, AND
RADIOISOTOPE SCHOOL, JAPAN ATOMIC
ENERGY RESEARCH INSTITUTE,
HONKOMAGOME, BUNKYO-KU, TOKYO,
JAPAN.
- 7194 Henkelmann, R., Stark, H., Born,
H. J.
**Non-destructive rapid
determination of fluorine by
neutron activation.**
Radiochim. Acta, **11**, No. 2,
101-104 (1969).
(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). INSTITUT FUR
RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MUNCHEN.
- 7195 Nadkarni, R. A., Flieder, D. E.,
Ehmann, W. D.
**Instrumental neutron activation
analysis of biological materials.**
Radiochim. Acta, **11**, No. 2, 97-100
(1969).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). CHEMISTRY DEPARTMENT
AND MEDICAL CENTER, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 7196 Gangadharam, E. V., Reddy, G. R.
**Estimation of potassium, rubidium,
and cesium in standard and
ultramafic rocks using neutron
activation.**
Radiochim. Acta, **11**, No. 2, 90-93
(1969).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). CENTRE OF ADVANCED
STUDY IN GEOLOGY, UNIVERSITY OF
SAUGAR, SAGAR, MADHYA PRADESH,
INDIA AND ANALYTICAL DIVISION,
BHABHA ATOMIC RESEARCH CENTRE,
TROMBAY, BOMBAY, INDIA.
- 7197 Meijers, P., Aten, A. H. W.
Photon activation analysis of iron

ACTIVATION ANALYSIS—ACCESSION NUMBERS

meteorites.

Radiochim. Acta, **11**, No. 1, 60
(1969).

(ENGLISH). INSTITUUT VOOR
KERNPHYSISCH ONDERZOEK, OOSTER
RINGDIJK, AMSTERDAM-O,
NETHERLANDS.

7198 Canadian Chemical Processing
**Stream analysis via neutron
activation.**

Can. Chem. Process., **52**, 72-76
(December 1968).

(ENGLISH). CANADA.

7199 Oak Ridge National Laboratory
Nuclear and radiochemistry.

ORNL-4343, 62-84 (December 1968).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

7200 Amsel, G., David, D., Beranger,
G., Boisot, P., De Gelas, B.,
Lacombe, P.

**Nuclear methods for determination
of impurities on the surface of
metals.**

J. Nucl. Mater., **29**, 144-153
(February 1969).

(FRENCH). LABORATOIRE DE
PHYSIQUE, E.N.S., AND C.R.M.,
ECOLE DES MINES DE PARIS, PARIS,
FRANCE.

7201 Muto, H., Gohshi, Y.

**Determination of oxygen in high
melting point materials by fast
neutron activation.**

Bunseki Kagaku, **18**, No. 5, 600-603
(1969).

(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY,
TOKYO SHIBAURA ELECTRIC CO.,
LTD., KAWASAKI-SHI, KANAGAWA-KEN,
TOKYO, JAPAN.

7202 Rhodes, J. R., Berry, P. F.,
Sieberg, R. D.

**Nuclear techniques in on-stream
analysis of ores and coal.**

ORO-2980-18, 90p. (September 26,
1968).

(ENGLISH). TEXAS NUCLEAR
CORPORATION, AUSTIN, TEXAS.

7203 Brune, D.

**Epithermal neutron activation
analysis for iodine in small
aqueous samples.**

Anal. Chim. Acta, **46**, No. 1, 17-21
(1969).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). AB ATOMENERGI,
STUDSVIK, SWEDEN.

7204 Smathers, J. B., Duffey, D.,
Lakshmanan, S.

**Chelate enhancement of the
sensitivity for magnesium in
neutron activation analysis.**

Anal. Chim. Acta, **46**, No. 1, 9-15
(1969).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). NUCLEAR ENGINEERING
DEPARTMENT, TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS, AND UNIVERSITY OF
MARYLAND, COLLEGE PARK, MARYLAND.

7205 Meijers, P., Aten, A. H. W.

**Average cross sections in charged
particle activation analysis.**

Radiochim. Acta, **10**, 175-176
(December 1968).

(ENGLISH). INSTITUUT VOOR
KERNPHYSISCH ONDERZOEK, OOSTER
RINGDIJK, AMSTERDAM, O.

7206 Meyer, H. G., Born, H. J., Stark,
H., Turkowsky, C.

**Joint determination of ^{230}Th and
 ^{232}Th .**

Radiochim. Acta, **10**, 128-133
(December 1968).

(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). INSTITUT FUR
RADIOCHEMIE DER TECHNISCHEN
HOCHSCHULE MUNCHEN, GARCHING BEI
MUNCHEN.

7207 Dams, R., Adams, F.

**Gamma-ray energies of
radionuclides formed by neutron
capture determined by Ge(Li)
spectrometry.**

Radiochim. Acta, **10**, 1-11 (1968).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, UNIVERSITY OF
GHENT, BELGIUM.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 7208 Battelle Northwest
Radiological chemistry.
BNWL-481-2, 1-126, December 1967.
 (ENGLISH). BATTELLE PACIFIC
 NORTHWEST LABORATORY.
- 7209 Wyttenbach, A.
**Activation analysis investigations
 on Bernese coins of the 15th and
 16th centuries.**
Schweiz. Muenzbl., 17, 15-24
 (1967).
 (GERMAN). SWITZERLAND.
- 7210 Fouche, K. F., Smales, A. A.
**The distribution of trace elements
 in chondritic meteorites. 1.
 Gallium, germanium, and indium.**
Chem. Geol., 2, 5-33 (1967).
 (ENGLISH). ANALYTICAL SCIENCES
 DIVISION, AERE, HARWELL, ENGLAND.
- 7211 Lunde, G.
**Activation analysis of trace
 elements in fishmeal.**
J. Sci. Food Agr., 19, No. 8,
 432-434 (1968).
 (ENGLISH). CENTRAL INSTITUTE FOR
 INDUSTRIAL RESEARCH, BLINDERN,
 OSLO, NORWAY.
- 7212 Gilbert, E. N., Pronin, V. A.
**A radioactivation determination of
 microimpurities in thallium.**
J. Anal. Chem., USSR, 23, No. 11,
 1536-1538 (November 1968).
 (ENGLISH TRANSLATION). INSTITUTE
 OF INORGANIC CHEMISTRY, SIBERIAN
 DIVISION OF THE ACADEMY OF
 SCIENCES OF THE USSR,
 NOVOSIBIRSK.
- 7213 Moiseev, L. I., Blokhin, V. I.,
 Bogatyrev, V. K.
**The possibility of determining
 gases in metals by radioactivation
 methods.**
J. Anal. Chem., USSR, 23, No. 11,
 1492-1497 (November 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 7214 Karev, V. N., Dolya, G. P.,
 Sivokon, N. V., Tutubalin, A. I.,
 Khalin, N. F., Zadvornyi, A. S.
Neutron activation analysis
**determination of oxygen in
 beryllium.**
Industrial Laboratory, 34, No. 12,
 1724-1726 (December 1968).
 (ENGLISH TRANSLATION). PHYSICS
 AND ENGINEERING INSTITUTE OF THE
 ACADEMY OF SCIENCES OF THE
 UKRAINIAN SSR, KHARKOV.
- 7215 Blotcky, A. J., Hahn, K. J.,
 Ogborn, R. E.
**Neutron activation analysis of
 manganese in biological samples.**
J. Radioanal. Chem., 2, 345-352
 (1969).
 (ENGLISH). REACTOR LABORATORY,
 MEDICAL RESEARCH SERVICE,
 VETERANS ADMINISTRATION HOSPITAL,
 OMAHA, NEBRASKA.
- 7216 Mantel, M., Gilat, J., Amiel, S.
**Isotopic analysis of uranium by
 neutron activation and high
 resolution gamma ray
 spectrometry.**
J. Radioanal. Chem., 2, 395-407
 (1969).
 (ENGLISH). NUCLEAR CHEMISTRY
 DEPARTMENT, SOREQ NUCLEAR
 RESEARCH CENTRE, YAVNE, ISRAEL.
- 7217 Chiba, M.
**Rapid determination of molar
 ratios in binary systems by 14
 MeV neutron activation analysis.
 Determination of the molar ratio
 of iron(III) oxide and barium
 oxide in barium ferrite.**
J. Radioanal. Chem., 2, 415-423
 (1969).
 (ENGLISH). NATIONAL RESEARCH
 INSTITUTE FOR METALS, MEGUROKU,
 TOKYO, JAPAN.
- 7218 Poey, B. S., Leddicotte, G. W.
**A preliminary comparative
 assessment by activation analysis
 of some of the materials and
 containers used in pharmaceutical
 manufacture.**
J. Radioanal. Chem., 2, 425-433
 (1969).
 (ENGLISH). RESEARCH REACTOR
 FACILITY, UNIVERSITY OF MISSOURI,
 COLUMBIA, MISSOURI.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 219 Prapuolenis, A. A., Bakes, J. M.
The determination of phosphorus and nitrogen in herbage flour by fast neutron activation analysis.
Radiochem. Radioanal. Letters, **1**, No. 1, 19–23 (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF READING, READING, BERKSHIRE, AND MINISTRY OF TECHNOLOGY, WARREN SPRING LABORATORY, STEVENAGE, HERTFORDSHIRE, ENGLAND.
- 7220 Frana, J., Vobecky, M., Kristak, J.
Non-destructive determination of the isotopic ratio $^{235}\text{U}/^{238}\text{U}$ by activation analysis.
Radiochem. Radioanal. Letters, **1**, No. 1, 41–49 (1969).
 (ENGLISH). NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 7221 Inouye, T.
A rapid method of data reduction in activation analysis.
Radiochem. Radioanal. Letters, **1**, No. 1, 63–68 (1969).
 (ENGLISH). TOSHIBA RESEARCH AND DEVELOPMENT CENTER, KAWASAKI, JAPAN.
- 7222 Minagawa, Y., Kamegaya, K.
A simplified method for the determination of arsenic in human nail and hair by activation analysis using of Ge(Li) detector.
Radiochem. Radioanal. Letters, **1**, No. 1, 69–73 (1969).
 (ENGLISH). HEALTH AND SAFETY OFFICE, TOSHIBA RESEARCH AND DEVELOPMENT CENTER, TOKYO SHIBAURA ELECTRIC CO., LTD., KAWASAKI, JAPAN.
- 7223 Hamaguchi, H., Onuma, N., Hirao, Y., Yokoyama, H., Bando, S., Furukawa, M.
The abundances of arsenic, tin, and antimony in chondritic meteorites.
Geochim. Cosmochim. Acta, **33**, 507–518 (April 1969).
- (ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, THE UNIVERSITY OF TOKYO, HONGO, TOKYO, JAPAN.
- 7224 Kasperek, K.
Application of activation analysis in biology and medicine.
Atomkernenergie, **14**, 143–146 (March–April 1969).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR MEDIZIN, KERNFORSCHUNGSANLAGE JULICH GMBH.
- 7225 Obrusnik, I.
Determination of indium and tin by activation analysis using replacement substoichiometry.
Talanta, **16**, No. 5, 563–566 (1969).
 (ENGLISH) (FRENCH SUMMARY). INSTITUTE OF NUCLEAR RESEARCH, CSAV, REZ, PRAGUE, CZECHOSLOVAKIA.
- 7226 Liessens, J. L., Dams, R., Hoste, J.
Neutron activation analysis of traces in electrolytic zinc sulphate solution. Part IV. Simultaneous determination of cobalt, cadmium, iron, and indium.
Anal. Chim. Acta, **45**, 213–218 (April 1969).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 7227 Ballaux, B., Dams, R., Hoste, J.
Neutron activation analysis of high-purity selenium. Part IV. Simultaneous determination of chlorine, bromine, and iodine.
Anal. Chim. Acta, **45**, 337–340 (April 1969).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 7228 Ricci, E.
Influence of channeling in conventional helium-3 activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Analyst*, **94**, 435–440 (1969).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 7229 Lobanov, E. M., Mamadzhanov, F.
I., Babaev, A.
**Neutron activation analysis of
impurities in quartz materials.**
Dokl. Akad. Nauk Tadzh. SSR, **11**,
No. 5, 54–58 (1968).
(RUSSIAN). PHYSICAL–TECHNICAL
INSTITUTE, DUSHANBE, USSR.
- 7230 Debrun, J. L., Barrandon, J. N.,
Albert, P.
**Activation analysis using ⁴He and
³He ions. Determination of trace
oxygen in high purity iron,
nickel, and chromium. Studies on
carbon determination.**
Bull. Soc. Chim. Fr., No. 3,
1011–1016 (March 1969).
(FRENCH). LABORATOIRE D'ANALYSE
PAR ACTIVATION DU CENTRE D'ETUDES
DE CHIMIE METALLURGIQUE, CNRS,
VITRY-SUR-SEINE.
- 7231 Debrun, J. L., Albert, P.
**Determination of traces of sulfur
by activation using charged
particles.**
Bull. Soc. Chim. Fr., No. 3,
1017–1020 (March 1969).
(FRENCH). LABORATOIRE D'ANALYSES
PAR ACTIVATION DU C.E.C.M.,
C.N.R.S., VITRY-SUR-SEINE.
- 7232 Debrun, J. L., Albert, P.
**Irradiation of some natural
elements by 35 MeV photons.
Applications in activation
analysis.**
Bull. Soc. Chim. Fr., No. 3,
1020–1023 (March 1969).
(FRENCH). LABORATOIRE D'ANALYSE
PAR ACTIVATION, C.E.C.M.,
C.N.R.S., VITRY-SUR-SEINE.
- 7233 Csajka, M., Csath, G., Molnar, F.,
Ordogh, M., Rausch, H., Szabo, E.
**New aspects of chemical separation
in neutron activation analysis.**
KFKI (Kozp. Fiz. Kut. Intez.)
- Kozlem.*, **16**, 369–380 (1968).
(HUNGARIAN). HUNGARY.
- 7234 Orban, E., Ordogh, M., Szabo, E.,
Miskovits, G., Dubay, M.
**Determination of silicon,
aluminum, and phosphorus in
biological samples, by neutron
activation and spectrophotometry.**
KFKI (Kozp. Fiz. Kut. Intez.)
Kozlem., **17**, 39–57 (1969).
(HUNGARIAN). HUNGARY.
- 7235 Csajka, M., Lavrukhina, A. K.,
Szabo, E.
**Determination of macrocomponents
in meteorites by nondestructive
activation analysis.**
KFKI (Kozp. Fiz. Kut. Intez.)
Kozlem., **17**, 25–37 (1969).
(HUNGARIAN). HUNGARY.
- 7236 Kulus, E., Molnar, F., Szabo, E.
**Concentration and determination of
rare earth impurities in yttrium
matrix.**
KFKI (Kozp. Fiz. Kut. Intez.)
Kozlem., **17**, 21–24 (1969).
(HUNGARIAN). HUNGARY.
- 7237 Abdusalyamov, N., Ganiev, A. G.,
Nazmitdinov, M. K.
**Radioactivation determination of
palladium traces in some
concentrates and ores by
substoichiometric separation.**
Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.–Mat. Nauk, **12**, No. 4, 53–55
(1968).
(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT.
- 7238 Bewers, J. M., Flack, F. C.
**Determination of fluorine by
prompt γ -radiation from proton
bombardment. Part I. Theory and
experimental method.**
Analyst, **94**, 1–6 (January 1969).
(ENGLISH). PHYSICS DEPARTMENT,
UNIVERSITY OF EXETER, EXETER,
DEVON.
- 7239 Bewers, J. M., Flack, F. C.
Determination of fluorine by

ACTIVATION ANALYSIS—ACCESSION NUMBERS

prompt γ -radiation from proton bombardment. Part II. Results.

Analyst, **94**, 7-14 (January 1969).

(ENGLISH). PHYSICS DEPARTMENT,
UNIVERSITY OF EXETER, EXETER,
DEVON.

very short-lived radioisotopes used in activation analysis.

Nucl. Instrum. Methods, **68**,
341-343 (1969).

(ENGLISH). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH,
WARSAW-ZERAN, POLAND.

7240 Comar, D., Crouzel, C.,

Chasteland, M., Riviere, R.,
Kellershohn, C.

The use of neutron-capture gamma radiation for the analysis of biological samples.

Nucl. Appl., **6**, 344-351 (April 1969).

(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, SERVICE
HOSPITALIER FREDERIC JOLIOT,
ORSAY, FRANCE.

7245 Bertolini, G.

Use of semiconductor detectors in activation analysis.

Kerntechnik, **11**, 31-35 (January 1969).

(ENGLISH). JOINT NUCLEAR
RESEARCH CENTER, ISPRA, VARESE,
ITALY.

7241 Herr, W., Herpers, U., Hess, B.

Hf determination in a zirconium matrix by life time measurements of the 15ns ^{181}Ta excited state.

Radiochim. Acta, **11**, 61-62 (March 1969).

(ENGLISH). INSTITUT FUR
KERNCHEMIE DER UNIVERSITAT KOLN.

7246 Strain, W. H., Rob, C. G., Pories,

W. J., Childers, R. C., Thompson,
M. F., Hennessen, J. A., Graber,
F. M.

Activation analysis of normal and atherosclerotic aortas.

Appl. Spectroscopy, **23**, 121-124
(March-April 1969).

(ENGLISH). DEPARTMENTS OF
RADIOLOGY AND SURGERY, SCHOOL OF
MEDICINE AND DENTISTRY,
UNIVERSITY OF ROCHESTER,
ROCHESTER, N.Y., WRIGHT-PATTERSON
AFB, OHIO, AND GULF GENERAL
ATOMIC, SAN DIEGO, CALIF.

7242 Fer, A., Fourcy, A.

Rapid simultaneous determination of traces of bromine and arsenic in plant materials, using neutron activation and distillation.

Nucl. Appl., **6**, 360-364 (April 1969).

(ENGLISH). LABORATOIRE DE
BIOLOGIE VEGETALE, CENTRE
D'ETUDES NUCLEAIRES DE GRENOBLE,
FRANCE.

7247 Webster, R. K.

Activation analysis.

Engineering, **207**, 365-368
(February 28, 1969).

(ENGLISH). ANALYTICAL RESEARCH
AND DEVELOPMENT UNIT, AERE,
HARWELL.

7243 Haller, W. A., Filby, R. H.,

Rancitelli, L. A.

The determination of elemental concentrations in blood by neutron activation analysis.

Nucl. Appl., **6**, 365-370 (April 1969).

(ENGLISH). WASHINGTON STATE
UNIVERSITY, PULLMAN, AND BATTELLE
NORTHWEST LABORATORY, RICHLAND,
WASHINGTON.

7248 Rook, H. L., Schweikert, E. A.

Ultratrace determination of oxygen and carbon by charged particle activation analysis.

Anal. Chem., **41**, No. 7, 958-963
(1969).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

7244 Sterlinski, S.

The lower limit of detection for

7249 Wilkniss, P. E.

Use of a 60-MeV LINAC for fast and

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- variable energy neutron activation analysis.
Anal. Chem., **41**, No. 3, 421–423 (March 1969).
(ENGLISH). NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.
- 7250 De Waal, T. J., Peisach, M., Pretorius, R.
Isotopic determination of ^{48}Ca by deuteron activation.
Anal. Chem., **41**, 416–420 (March 1969).
(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 7251 Anders, O. U.
Instrumental neutron activation analysis using TRIGA reactor high-resolution gamma spectrometer and computer.
Anal. Chem., **41**, 428–437 (March 1969).
(ENGLISH). RADIOCHEMISTRY RESEARCH LABORATORY, THE DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 7252 Komarov, A. N., Shukolyukov, Y. A., Skovorodkin, N. V.
The investigation of the abundance and distribution of uranium in some minerals and rocks by the neutron activation technique with the registration of fragment fission tracks.
Geokhimiya, No. 7, 763–776 (1967).
(RUSSIAN) (ENGLISH SUMMARY). THE LABORATORY OF PRE-CAMBRIAN GEOLOGY, LENINGRAD, RUSSIA.
- 7253 Bruninx, E., Crombeen, J.
Thick target neutron yields and neutron spectra produced by 20 MeV helium-3 ions, 14 MeV protons and 7.5 MeV deuterons on a beryllium target.
Intern. J. Applied Radiation Isotopes, **20**, 255–264 (1969).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). PHILIPS RESEARCH LABORATORIES, N.V. PHILIPS GLOEILAMPENFABRIEKEN, EINDHOVEN, NETHERLANDS.
- 7254 Neirinckx, R., Adams, F., Hoste, J.
Determination of impurities in titanium and titanium dioxide by neutron activation analysis. Part II. Determination of 27 trace constituents in titania powder.
Anal. Chim. Acta, **46**, 165–178 (1969).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR CHEMISTRY, GHENT UNIVERSITY, GHENT, BELGIUM.
- 7255 Budzynski, A. Z., Beer, J. S.
Activation analysis of paper chromatograms.
Anal. Chim. Acta, **46**, 281–306 (1969).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF RADIOBIOLOGY AND HEALTH PROTECTION, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 7256 Suttle, A. D., O'Brien, B. C., Mueller, D. W.
Neutron activation analysis of uranium in geological material by measuring tellurium-132.
Anal. Chem., **41**, No. 10, 1265–1269 (August 1969).
(ENGLISH). DEPARTMENT OF CHEMISTRY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 7257 Souliotis, A. G.
Simultaneous routine determination of copper and zinc in plants by neutron activation analysis.
Analyst, **94**, 359–363 (May 1969).
(ENGLISH). NUCLEAR RESEARCH CENTER, DEMOCRITOS, ATHENS, GREECE.
- 7258 Selecki, A., Nowakowska, Z.
Determination of boron in solid boron-organic compounds by indirect neutron activation.
Radiochem. Radioanal. Letters, **1**, No. 4, 247–256 (August 13, 1969).
(ENGLISH). CHAIR OF NUCLEAR CHEMICAL ENGINEERING, WARSAW POLYTECHNIC, WARSAW, POLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7259 Op De Beeck, J.
The influence of source dimensions of the flux distribution around the neutron source of a T(d,n) type neutron generator.
Radiochem. Radioanal. Letters, **1**, No. 4, 281–287 (August 13, 1969).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 7260 Das, H. A.
Examination of amber samples by non-destructive activation analysis.
Radiochem. Radioanal. Letters, **1**, No. 4, 289–294 (August 13, 1969).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.
- 7280 Mlitz, P., Neider, R., Schmitt, B. F., Steiner, N.
Determination of manganese in plastics, elastomers, and their components by means of activation analysis.
Kaut. Gummi, Kunstst., **22**, No. 5, 233–236 (1969).
 (GERMAN). BUNDESANSTALT FÜR MATERIALPRÜFUNG, BERLIN-DAHLEM.
- 7281 Neeb, K. H., Stockert, H., Braun, R., Bleich, H. P.
Determination of trace impurities in gallium and gallium arsenide by neutron activation analysis.
Z. Anal. Chem., **245**, No. 4, 233–238 (1969).
 (GERMAN) (ENGLISH SUMMARY). KERNTECHNISCHE LABORATORIEN DER SIEMENS AG, ERLANGEN.
- 7282 Akaboshi, M., Maeda, T., Noda, M., Waki, A.
Determination of trace elements in DNase I by the activation analysis.
 NSJ-TR-141, 7p. (December 1968).
 (ENGLISH TRANSLATION). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 7283 Nakamura, H., Yamabayashi, H.
Radiochemical impurities in the processed ^{56}Mn by (n, γ) reaction.
Nippon Genshiryoku Gakkaishi, **11**, 134–137 (1969).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 7284 Albert, P.
Analysis of impurities in very pure metals by activation analysis methods.
Ann. Mines, No. 4, 24–52 (April 1968).
 (FRENCH). CENTRE D'ETUDE DE CHIMIE METALLURGIQUE, VITRY, FRANCE.
- 7285 Konecny, K., Vobecky, M., Juna, J.
Non-destructive determination of boron in metallic alloys by means of a nuclear reaction.
Jad. Energ., **15**, 128–130 (April 1969).
 (CZECHOSLOVAKIAN). USTAV JADERNEHO VYZKUMU CSAV, REZ.
- 7286 Jordan, E. D.
Material identification by the (n, α γ) reaction in boron.
Trans. Am. Nuclear Soc., **5**, No. 1, 199–200 (June 1962).
 (ENGLISH). CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C.
- 7287 Erdey, L.
Various methods for the determination of trace elements.
Kem. Kozlem., **30**, 372–378 (December 30, 1968).
 (HUNGARIAN). BUDAPEST TECHNICAL UNIVERSITY, BUDAPEST, HUNGARY.
- 7288 Quittner, P.
Neutron activation analysis.
Magy. Fiz. Foly., **16**, 421–468 (1968).
 (HUNGARIAN). STATE INSTITUTE OF NUCLEAR RESEARCH, BUDAPEST, HUNGARY.
- 7289 Hoste, J., Speecke, A., De Soete, D.
Determination of oxygen in steels by neutron activation. I. Principle of the method and description of the equipment.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- CNRM (Cent. Nat. Rech. Met.) Met. Rep.*, No. 13, 29–32 (December 1967).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 7290 Lacomble, M., Collette, F., Hans, A., Tyou, P.
Determination of oxygen in steels by neutron activation. II. Problems set by the erection and use of a neutron activation laboratory in a steel plant.
CNRM (Cent. Nat. Rech. Met.) Met. Rep., No. 13, 33–37 (December 1967).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). COCKERILL–OUGREE–PROVIDENCE AND C.N.R.M.
- 7291 Hans, A., Tyou, P., Lacomble, M., Collette, F.
Determination of oxygen in steels by neutron activation. III. Results of the experiments carried out in the first half of 1967 with the equipment installed at the LD steel plant of S. A. Cockerill–Ougree–Providence.
CNRM (Cent. Nat. Rech. Met.) Met. Rep., No. 13, 37–46 (December 1967).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). COCKERILL–OUGREE–PROVIDENCE AND C.N.R.M.
- 7292 Abe, S.
Photoactivation of alkaline earth metals and its application to the determination of strontium in calcium and barium.
Yamagata Daigaku Kiyo, Shizenkagaku, 7, 35–42 (January 1968).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF APPLIED CHEMISTRY, FACULTY OF ENGINEERING, YAMAGATA UNIVERSITY, JAPAN.
- 7293 Kurosawa, R.
On the nondestructive analysis of silicon and aluminum in coal.
Nippon Kogyo Kaishi, 84, 101–108 (February 1968).
(JAPANESE) (ENGLISH SUMMARY). WASEDA UNIVERSITY, JAPAN.
- 7294 Oda, T.
Determination of rare earth elements in hot spring water by radioactivation method.
Radioisotopes (Tokyo), 18, 39–43 (February 1969).
(JAPANESE) (ENGLISH SUMMARY). THE INSTITUTE OF BALNEOTHERAPEUTICS, KYUSHU UNIVERSITY, JAPAN.
- 7295 Yamamoto, Y., Kumamaru, T., Hayashi, Y.
Non-destructive neutron activation analysis of sodium in Mn–Zn ferrite.
Radioisotopes (Tokyo), 18, 50–51 (February 1969).
(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, HIROSHIMA UNIVERSITY, HIGASHISENDA-MACHI, HIROSHIMA, JAPAN.
- 7296 Tamura, M.
Determination of sulfur in petroleum products by fast-neutron activation and the interfering elements.
Radioisotopes (Tokyo), 17, 423–427 (September 1968).
(JAPANESE). GOVERNMENT RESOURCES RESEARCH INSTITUTE, KOTOBUKI-CHO, KAWAGUCHI-SHI, SAITAMA PREFECTURE, JAPAN.
- 7297 Ishikawa, H., Baba, H.
Quantitative analysis of nitrogen using gamma ray spectrometry.
Radioisotopes (Tokyo), 17, 195–198 (May 1968).
(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 7298 Mizuike, A., Fukuda, K., Mitsuya, N.
Determination of gold in high purity cadmium by neutron activation analysis.
Radioisotopes (Tokyo), 17, 199–202 (May 1968).
(ENGLISH) (JAPANESE SUMMARY). FACULTY OF ENGINEERING, NAGOYA

ACTIVATION ANALYSIS—ACCESSION NUMBERS

UNIVERSITY, CHIKUSA-KU, NAGOYA,
JAPAN.

- 7299 Shinbori, Y., Tamachi, T.
Radioactivation analysis of trace elements in refined soybean oils. II. Determination of copper and zinc.
Yukagaku, 17, No. 11, 606-610 (1968).
(JAPANESE) (ENGLISH SUMMARY).
ATOMIC RESEARCH LABORATORY OF MUSASHI INSTITUTE OF TECHNOLOGY, OZENJI YOTSUTA, KAWASAKI-SHI, JAPAN.
- 7300 Hirai, H.
Determination of copper in fats by neutron activation analysis.
Yukagaku, 17, 72-77 (February 1968).
(JAPANESE) (ENGLISH SUMMARY).
RESEARCH LABORATORY, MIYOSHI OIL AND FAT CO., LTD., HORKIRI, KATSUSHIKA-KU, TOKYO, JAPAN.
- 7301 Persiani, C., Cosgrove, J. F.
The analysis of thin films for silicon, oxygen, and aluminum by fast neutron activation.
Thin Solid Films, 2, 437-444 (December 1968).
(ENGLISH). THE BAYSIDE LABORATORY, RESEARCH CENTER OF GENERAL TELEPHONE AND ELECTRONICS LABORATORIES, INC., BAYSIDE, N.Y.
- 7302 Perdijon, J.
Automatic activation analysis in the mining industry. Application to iron ores.
Rev. Ind. Minerale, 50, 205-210 (March 1968).
(FRENCH). SOCIETE SAMES.
- 7303 Hofler, H., Sorantin, H.
Application of nondestructive activation analysis to meteorites. Determination of aluminum, vanadium, manganese, and gold in stony and iron meteorites.
Chem. Geol., 2, 273-278 (1967).
(ENGLISH). REACTOR CENTER SEIBERSDORF AND UNIVERSITY OF VIENNA, VIENNA, AUSTRIA.
- 7304 Schaudy, R., Kiesl, W., Hecht, F.
Activation analytical determination of elements in meteorites.
Chem. Geol., 2, 279-287 (1967).
(ENGLISH). REACTOR CENTER SEIBERSDORF AND UNIVERSITY OF VIENNA, VIENNA, AUSTRIA.
- 7305 Parker, R. B., Brunfelt, A. O.
Precision and accuracy of sodium determination by neutron activation.
Chem. Geol., 3, 213-217 (September 1968).
(ENGLISH). DEPARTMENT OF GEOLOGY, UNIVERSITY OF WYOMING, LARAMIE, WYOMING AND MINERALOGICAL-GEOLOGICAL MUSEUM, UNIVERSITY OF OSLO, OSLO, NORWAY.
- 7306 Schaudy, R., Kiesl, W., Hecht, F.
Activation analytical determination of elements of meteorites. 2. Determination of manganese, sodium, gallium, copper, gold, and chromium in 21 meteorites.
Chem. Geol., 3, 307-312 (December 1968).
(ENGLISH). REACTOR CENTER SEIBERSDORF AND UNIVERSITY OF VIENNA, VIENNA, AUSTRIA.
- 7307 Schuster, E., Wohlleben, K.
Determination of light elements in silicon and selenium by ion activation analysis.
Z. Anal. Chem., 245, No. 4, 239-244 (1969).
(GERMAN) (ENGLISH SUMMARY).
KERNTECHNISCHE LABORATORIEN UND FORSCHUNGLABORATORIUM ERLANGEN DER SIEMENS A.G.
- 7308 Hasseltine, E. H.
Study of metallic and dielectric sputtering by neutron activation and electron probe microanalysis.
Thesis. University of California, 68p. (1967).
(ENGLISH). UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.
- 7309 Collins, K. A.
Phase distributions of the

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- RZADU DO SPRAW WYKORZYSTANIA
ENERGII, JADROWEJ, WARSZAWA.
- rare-earth elements in sediments.**
Thesis. University of Wisconsin,
192p. (1967).
(ENGLISH). UNIVERSITY OF
WISCONSIN, MADISON, WISCONSIN.
- 7310 Berkey, E.
**Terrestrial modification of trace
elements in iron meteorites.**
Thesis. Cornell University, 131p.
(1967).
(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y.
- 7311 Linn, T. A.
**Concentrations and distributions
of selected chemical elements in
the metallic, sulfide, and
phosphide phases of iron
meteorites via neutron activation
analysis.**
Thesis. Arizona State University,
159p. (1968).
(ENGLISH). ARIZONA STATE
UNIVERSITY, TEMPE, ARIZONA.
- 7312 Gatz, D. F., Dingle, A. N.,
Winchester, J. W.
**Detection of indium as an
atmospheric tracer by neutron
activation.**
J. Appl. Meteorol., **8**, 229–235
(April 1969).
(ENGLISH). DEPARTMENT OF
METEOROLOGY AND OCEANOGRAPHY, THE
UNIVERSITY OF MICHIGAN, ANN
ARBOR, MICHIGAN.
- 7313 Aude, G., Laverlochere, J.
**Activation analysis with 14 and 3
MeV neutrons from elements with
atomic number less than 30.**
Ind. Chim. Belge, **32**, Special No.
(Part 2), 29–34 (1967).
(FRENCH). CEA, DEPARTEMENT DES
RADIOELEMENTS, CENTRE D'ETUDES
NUCLEAIRES DE GRENOBLE, FRANCE.
- 7314 Pradzynski, A., Sulin, V. V.,
Vitozhents, G.
**Analysis of copper and silver in
copper ores by the photon
activation method.**
Nukleonika, **13**, 581–590 (1968).
(POLISH). URZAD PELNOMOCNIKA
- 7315 Azuma, T., Sato, Y., Tsurugi, J.,
Miki, R., Kondo, Y., Yoshida, J.,
Yamamichi, K.
**(γ , n) activation analysis of poly
(vinyl chloride) sheet.**
*Annu. Rep. Radiat. Center Osaka
Prefect.*, **8**, 50–54 (1967).
(ENGLISH) (JAPANESE SUMMARY).
KINKI UNIVERSITY, FUSE, JAPAN AND
BANDO CHOTAI RUBBER CO., LTD.,
JAPAN.
- 7316 Asai, T., Iwai, Y., Miki, R.,
Kondo, Y., Sato, Y., Azuma, T.
**(γ , n) activation analysis of
human blood.**
*Annu. Rep. Radiat. Center Osaka
Prefect.*, **8**, 120–122 (1967).
(ENGLISH) (JAPANESE SUMMARY).
KINKI UNIVERSITY, FUSE, JAPAN.
- 7317 Adams, F.
**Germanium detectors in chemical
analysis.**
BLG–425, Paper 3, 15p.
(ENGLISH). INSTITUTE NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.
- 7318 Nelp, W. B.
**Determination of total body
calcium (skeletal mass) in man by
in vivo neutron activation
analysis and total body counting.
Project progress report.**
RLO–2046–1, 21p. (July 1, 1968).
(ENGLISH). UNIVERSITY OF
WASHINGTON, SCHOOL OF MEDICINE,
SEATTLE, WASHINGTON.
- 7319 British Medical Journal
Activation analysis.
Brit. Med. J., **1**, 574 (June 8,
1968).
(ENGLISH). ENGLAND.
- 7320 Quigley, D. A., Trussler, J. W. A.
**Determination of aluminum in a
nimonic alloy by activation with
fast neutrons.**
Talanta, **16**, 438–443 (March 1969).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (ENGLISH) (GERMAN AND FRENCH SUMMARIES). SERVICES ELECTRONICS RESEARCH LABORATORY, BALDOCK, HERTS, ENGLAND.
- 7321 Fairchild, R. G., Tonna, E. A., Seibold, C. T., Straub, R. F.
Neutron autoradiographic determination of ^{10}B concentration and distribution in mammalian tissue.
Radiat. Res., **36**, 87–97 (1968).
 (ENGLISH). MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL LABORATORY, UPTON, NEW YORK.
- 7322 Cabane, G., Engelmann, C.
Determination of traces of light elements by activation with gamma photons and charged particles.
Rev. Phys. Appl., **3**, 365–372 (December 1968).
 (FRENCH) (ENGLISH SUMMARY). DEPARTEMENT DE METALLURGIE, C.E.N. DE SACLAY, FRANCE.
- 7323 Lucas, D. M.
Optics and instrumentation in forensic science.
Appl. Opt., **8**, 15–20 (January 1969).
 (ENGLISH). CENTRE OF FORENSIC SCIENCES, TORONTO, ONTARIO, CANADA.
- 7324 Walls, H. J.
Forensic optics.
Appl. Opt., **8**, 21–28 (January 1969).
 (ENGLISH). METROPOLITAN POLICE FORENSIC SCIENCE LABORATORY, LONDON, ENGLAND.
- 7325 Hoste, J., De Soete, D.
Some applications of activation analysis for the determination of trace impurities in semiconductor materials.
Z. Anal. Chem., **245**, No. 4, 221–232 (1969).
 (ENGLISH) (GERMAN SUMMARY). LABORATORY OF ANALYTICAL CHEMISTRY OF GHENT UNIVERSITY, BELGIUM.
- 7326 Dugain, F.
Determination of very small amounts of scandium and cobalt in S. R. Grade beryllium by neutron activation and gamma spectroscopy.
Met. Soc. Conf., **34**, Pt. 1, 129–138 (1968).
 (ENGLISH). COMPAGNIE PECHINEY, GRENOBLE, ISERE, FRANCE.
- 7327 Wang, J. L.
Determination of ^{14}C in starch and potassium in feldspar.
Ho Tsu Ko Hsueh, **6**, 61–68 (October 1968).
 (CHINESE) (ENGLISH SUMMARY). DEPARTMENT OF HEALTH PHYSICS, NATIONAL TSING HUA UNIVERSITY, HSINCHU, TAIWAN, CHINA.
- 7328 Nishimura, K., Hirayama, T.
Investigation of activation analysis of trace mercury in gas by radioisotope tracer method.
Radioisotopes (Tokyo), **17**, 562–568 (December 1968).
 (JAPANESE) (ENGLISH SUMMARY). CENTRAL RESEARCH LABORATORY, SHOWA DENKO KK, TAMAGAWA-2, OTA-KU, TOKYO, JAPAN.
- 7329 Shinbori, Y., Tamachi, T.
Activation analysis of trace elements in refined soybean oils. III. Determination of gold.
Radioisotopes (Tokyo), **18**, 12–15 (January 1969).
 (JAPANESE) (ENGLISH SUMMARY). ATOMIC RESEARCH LABORATORY OF MUSASHI INSTITUTE OF TECHNOLOGY, OZENJI-YOTSUTA, KAWASAKI, JAPAN.
- 7330 Miyagawa, K., Shimura, K., Asai, A., Nomura, E., Yamagishi, M.
Application of a fast neutron activation method to the control of oxygen content in iron and steel making process.
Tetsu to Hagane, **55**, 209–215 (February 1969).
 (JAPANESE) (ENGLISH SUMMARY). FUJI IRON AND STEEL CO., LTD., JAPAN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 7331 Kurosawa, R.
Neutron activation analysis of vanadium.
Waseda Daigaku Rikogaku Kenkyusho Hokoku, No. 41, 1-10 (September 1968).
 (JAPANESE) (ENGLISH SUMMARY).
 WASEDA UNIVERSITY, TOKYO, JAPAN.
- 7332 Shinbori, Y., Kuwahara, H.
Radioactivation analysis of trace arsenic in refined soybean oils, sunflower oils, and rape seed oils.
Yukagaku, 18, 147-148 (March 1969).
 (JAPANESE) (ENGLISH SUMMARY).
 ATOMIC RESEARCH LABORATORY OF MUSASHI INSTITUTE OF TECHNOLOGY, OZENJI YOTSUTA, KAWASAKI, JAPAN.
- 7333 Olin, J. S., Sayre, E. V.
Compositional categories of some English and American pottery of the colonial period.
 BNL-13134, 45p. (1968).
 (ENGLISH). CHEMISTRY DEPARTMENT, BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 7334 Fourcy, A., Fer, A., Poret, C., Neuburger, M., Garrec, J. P.
Application of radioactivation analysis to radioecological studies.
 AEC-TR-7041, 28p.
 (ENGLISH TRANSLATION). FRANCE.
- 7335 Travesi, A.
Recent applications of activation analysis in the Junta de Energia Nuclear.
 CONF-670649-38, 19p. (1967).
 (SPANISH). JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN.
- 7336 Martin, A., Albisu, F., Elejalde, C.
Determination of rhenium by neutron activation in sedimentary rocks.
 CONF-670649-30, 9p. (1966).
 (SPANISH). ESCUELA TECNICA SUPERIOR DE INGENIEROS INDUSTRIALES, BILBAO, SPAIN.
- 7337 Kim, J. I., Henkelmann, R.
Oxygen determination by fast neutron activation analysis.
 BMWF-FBK-68-58, 17p. (December 1968).
 (GERMAN). TECHNISCHE HOCHSCHULE, MUNICH, WEST GERMANY.
- 7338 Garrec, J. P.
Nondestructive analysis of major components of plant materials by means of 14 MeV neutrons.
 CEA-R-3636, 30p. (November 1968).
 (FRENCH). COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES, GRENOBLE.
- 7339 Albisu, F., Martin, A.
Radioisotopes in chemistry. Their use with and around the Arbi reactor.
 CONF-670649-1, 5p. (1966).
 (SPANISH). ESCUELA TECNICA SUPERIOR DE INGENIEROS INDUSTRIALES, BILBAO, SPAIN.
- 7340 Sayre, E. V., Chan, L. H., Sabloff, J. A.
High resolution gamma ray spectroscopic analyses of Mayan fine orange pottery with brief comments on their archaeological background and implications.
 BNL-13133, 64p. (1968).
 (ENGLISH). CHEMISTRY DEPARTMENT, BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y., AND PEABODY MUSEUM, HARVARD UNIVERSITY, CAMBRIDGE, MASS.
- 7341 Moauro, A., Capannesi, G.
Quantitative nondestructive determination by means of activation with thermal neutrons of manganese, of potassium, and of sodium in genotypes of pisum and their preliminary statistical differentiation on the basis of results obtained.
 RT-CHI-(69)1, 42p. (1969).
 (ITALIAN). COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY.
- 7342 Kartashev, E. R., Shtan, A. S.
Activation determination of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- indium, selenium, fluorine, and other elements in a stream of solutions.**
 VNIIRT-2, 18p. (1968).
 (RUSSIAN). VSESOYUZNYI NAUCHNO
 ISSLEDOVATELSKII INSTITUT
 RADIATIONNOI TEKHNIKI, MOSCOW,
 RUSSIA.
- 7343 Berry, L.
Activation determination of oxygen and nitrogen in solids. Application to the study of surface reactions.
 CEA-Bib-116, 25p. (1968).
 (FRENCH). COMMISSARIAT A
 L'ENERGIE ATOMIQUE, SACLAY,
 FRANCE.
- 7344 Bihet, O. L.
Oxygen determination in steel by neutron activation.
Stahl u Eisen, **88**, 1244-1246
 (October 31, 1968).
 (GERMAN). GERMANY.
- 7346 Breen, W. M., Fite, L. E.,
 Gibbons, D., Wainerdi, R. E.
A new digital computer program for processing neutron activation analysis data utilizing the IBM 709.
Trans. Am. Nuclear Soc., **4**, No. 2,
 244-245 (November 1961).
 (ENGLISH). TEXAS A AND M UNIVERSITY,
 COLLEGE STATION, TEXAS.
- 7347 Torko, J.
An easily regenerable antimony-beryllium radiation source.
Magy. Kem. Lapja, **19**, 299 (1964).
 (HUNGARIAN). NATIONAL COMMISSION
 FOR ATOMIC ENERGY, BUDAPEST,
 HUNGARY.
- 7348 Jervis, R. E.
Neutron radioactivation helps solve crimes.
Canadian Nuclear Technology, **3**,
 21-24 (1962).
 (ENGLISH). UNIVERSITY OF
 TORONTO, TORONTO, CANADA.
- 7350 Guinn, V. P.
Standards needs for activation analysis.
Nuclear Standards for Chemistry and Technology, 175-184, Beeghly,
 H.F., Cali, J.P., and Meinke,
 W.W. (Eds.) (December 1968).
 (ENGLISH). GULF GENERAL ATOMIC,
 SAN DIEGO, CALIF.
- 7351 Gorski, L., Janczyszyn, J., Loska,
 L.
On the feasibility of the determination of water, salt, and sulphur in crude oil by means of neutron activation analysis.
Radiochem. Radioanal. Letters, **1**,
 99-109 (June 1969).
 (ENGLISH). INSTITUTE OF NUCLEAR
 TECHNIQUES, ACADEMY OF MINING AND
 METALLURGY, KRAKOW, POLAND.
- 7352 White, J. C., Lyon, W. S.
Nuclear and radiochemical analyses.
 ORNL-3397, 71-112 (February 1,
 1963).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENNESSEE.
- 7353 Massachusetts Institute of
 Technology
General radiobiology.
 NYO-9505, 40-51.
 (ENGLISH). MASSACHUSETTS
 INSTITUTE OF TECHNOLOGY,
 CAMBRIDGE, MASS.
- 7354 Tatar, J.
Automatic determination of alumina and silica in bauxite samples by neutron activation.
Banyaszat, **101**, 287-291 (1968).
 (HUNGARIAN). MAGYAR ALLAMI
 EOTVOS LORAND GEOFIZIKAI INTEZET,
 BUDAPEST, HUNGARY.
- 7355 Radwan, M., Rewienska-Kosciukowa,
 B., Zarzecka, E.
Application of neutron activation analysis to the investigation of the chemical composition of carbides in steel.
Hutnik, **33**, No. 7-8, 299-304
 (1966).
 (POLISH). POLAND.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 7356 Leddicotte, G. W.
Radioactivation analysis.
 CF-60-11-124 (Rev.), 43p.
 (September 22, 1961).
 (ENGLISH). OAK RIDGE NATIONAL
 LABORATORY, OAK RIDGE, TENNESSEE.
- 7357 Shigematsu, T., Iwata, S.
**Application of activation analysis
 to biological samples.**
 KURRI-TR-37, 92p.
 (JAPANESE). RESEARCH REACTOR
 INSTITUTE, KYOTO UNIVERSITY,
 JAPAN.
- 7358 Spaepen, J.
**The Central Bureau of Nuclear
 Measurements. Euratoms Nuclear
 Bureau of Standards.**
 EUR-1850.E (Reprinted from Euratom
 – Scientific and Technical
 Activities), 5-29.
 (ENGLISH). STEENWEG NAAR RETIE,
 GEEL, BELGIUM.
- 7359 Doctor, Z. K., Haldar, B. C.
**Neutron activation analysis of
 molybdenum in copper ores.**
J. Indian Chem. Soc., **46**, No. 4,
 295-300 (1969).
 (ENGLISH). INORGANIC AND NUCLEAR
 CHEMISTRY LABORATORY, INSTITUTE
 OF SCIENCE, BOMBAY, INDIA.
- 7360 Neirinckx, R., Adams, F., Hoste,
 J.
**Determination of impurities in
 titanium dioxide by neutron
 activation analysis. Part II.
 Determination of 27 trace
 constituents in titania powder.**
Anal. Chim. Acta, **46**, 165-178
 (July 1969).
 (ENGLISH) (FRENCH AND GERMAN
 SUMMARIES). INSTITUTE FOR
 NUCLEAR CHEMISTRY, GHENT
 UNIVERSITY, GHENT, BELGIUM.
- 7361 Juna, J., Konecny, K., Vobecky, M.
**Nuclear reaction method for the
 determination of boron.**
Collect. Czech. Chem. Commun.,
 1605-1611 (May 1969).
 (ENGLISH). NUCLEAR RESEARCH
 INSTITUTE, CZECHOSLOVAK ACADEMY
 OF SCIENCES, PRAGUE-REZ,
 CZECHOSLOVAKIA.
- 7362 Chueca, A., Worwood, M., Taylor,
 D. M.
**The simultaneous determination of
 zinc and cadmium in biological
 materials by neutron activation
 analysis.**
*Intern. J. Appl. Radiation
 Isotopes*, **20**, 335-340 (May 1969).
 (ENGLISH) (FRENCH, RUSSIAN AND
 GERMAN SUMMARIES). DEPARTMENT OF
 BIOPHYSICS, INSTITUTE OF CANCER
 RESEARCH, SURREY, BRANCH,
 BELMONT, SUTTON, SURREY, ENGLAND.
- 7364 Perricos, D. C., Belkas, E. P.
**Determination of uranium in
 uraniferous coal.**
Talanta, **16**, 745-748 (June 1969).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). CHEMISTRY DIVISION,
 NUCLEAR RESEARCH CENTER,
 DEMOCRITOS, ATHENS, GREECE.
- 7365 Perin, Y. I., Sedykin, F. V.
**Neutron activation analysis study
 of wear on plastic and metallic
 parts.**
Industrial Laboratory, USSR, **35**,
 No. 1, 65-69 (1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 7366 Kodiri, S., Deev, Y. S.
**Gamma-activation method for
 determining rhodium.**
Dokl. Akad. Nauk Tadz. SSR, **11**,
 No. 12, 19-21 (1968).
 (RUSSIAN). TADZHIK STATE
 UNIVERSITY STALINABAD, USSR.
- 7367 Steinnes, E.
**Major element determination in
 geological material by neutron
 activation analysis.**
Tidsskr. Kjemi, Berg. Met., **29**,
 10-13 (January 1969).
 (NORWEGIAN). (ENGLISH SUMMARY).
 INSTITUTT FOR ATOMENERGI,
 KJELLER, NORWAY.
- 7368 Prouza, Z., Rakovic, M.
A contribution to the problem of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

self-absorption in activation analysis.

Atompraxis, 14, 245–247 (June 1968).

(ENGLISH). VETERINARY RESEARCH CENTRE, PRAGUE, AND THE DEPARTMENT OF MEDICAL PHYSICS AND NUCLEAR MEDICINE, CHARLES UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.

7369 Nixon, G. S., Livingston, H. D., Smith, H.

Estimation of antimony in human enamel by activation analysis.

Caries Res., 1, 327–332 (1967).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). TURNER DENTAL SCHOOL, UNIVERSITY OF MANCHESTER, AND FORENSIC MEDICINE DEPARTMENT, UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND.

7370 Nixon, G. S., Livingston, H. D., Smith, H.

Estimation of zinc in human enamel by activation analysis.

Archs Oral Biol., 12, 411–416 (1967).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). TURNER DENTAL SCHOOL, UNIVERSITY OF MANCHESTER, MANCHESTER, ENGLAND, AND UNIVERSITY OF GLASGOW, DEPARTMENT OF FORENSIC MEDICINE, GLASGOW, SCOTLAND.

7371 Ehmann, W. D., Mc Kown, D. M.

Instrumental activation analysis of meteorites using

γ - γ -coincidence spectrometry.

Analytical Letters, 2, No. 1, 49–60 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

7372 Chamberlain, M. J., Fremlin, J. H., Peters, D. K., Philip, H.

Total-body sodium by whole-body neutron activation in the living subject. Further evidence for nonexchangeable sodium pool.

Brit. Med. J., 1, 583–585 (June 8, 1968).

(ENGLISH). UNIVERSITY OF BIRMINGHAM, BIRMINGHAM, ENGLAND.

7373 Nascutiu, T., Pencea, C.

Radioactivation analysis of the inorganic ions of several textile fibers.

Rev. Roum. Chim., 13, 1359–1363 (October 1968).

(ENGLISH). INSTITUTE FOR ATOMIC PHYSICS, BUCHAREST, RUMANIA.

7374 Doctor, Z. K., Haldar, B. C.

Neutron activation analysis of rhenium in copper ores.

Proceedings of the Nuclear and Radiation Chemistry Symposium, Poona, March 6–9, 1967, 512–518, Bombay, Department of Atomic Energy (1967).

(ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.

7375 Jagannadha Rao, N., Krishnamoorthy Iyer, R., Sankar Das, M.

Investigation of trace element distribution in potsherds by activation analysis.

Proceedings of the Nuclear and Radiation Chemistry Symposium, Poona, March 6–9, 1967, 498–504, Bombay, Department of Atomic Energy (1967).

(ENGLISH). ANALYTICAL DIVISION, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA.

7376 Nadkarni, R. A., Haldar, B. C.

Determination of trace constituents in alloy steels by neutron activation analysis. Part II. Determination of molybdenum.

Proceedings of the Nuclear and Radiation Chemistry Symposium, Poona, March 6–9, 1967, 505–511, Bombay, Department of Atomic Energy (1967).

(ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.

7377 Schmitt, R. A., Smith, R. H., Olehy, D. A.

Rare earth abundances in

ACTIVATION ANALYSIS—BIBLIOGRAPHY

meteoritic chondrules.

N-68-34058, 17p. (1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORP., SAN DIEGO, CALIF., AND DEPARTMENT OF CHEMISTRY, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.

7378 Weinstein, S. T.

NAC. Neutron activation code.

N-68-29886, 49p. (1968).

(ENGLISH). NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, LEWIS RESEARCH CENTER, CLEVELAND, OHIO.

7379 Lotzsch, W.

Application of neutron-capture gamma spectroscopy for analytical purposes especially for bore-hole exploration of iron ore.

AED-Diss. 65-344, Thesis, Freiberg I. B., Bergakademie, 108p., 1965.

(GERMAN). GERMANY.

7380 Chubakov, A. A., Luzanova, L. M.

Investigation of the chemical composition of the crystalline lens of the eye in radiation cataract.

AEC-TR-4673, 19p. (1960).

(ENGLISH TRANSLATION). RUSSIA.

7381 Leveque, P.

Radioactivation analysis in the service of industry.

AEC-TR-5116, 5p.

(ENGLISH TRANSLATION). FRANCE.

7382 Armstrong, A. A., Rutherford, H. A.

Applications of nuclear radiation and radioisotopes to textile materials and processes.

NCSC-2477-4, 46p. (September 1, 1961).

(ENGLISH). NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING, RALEIGH, NORTH CAROLINA.

7383 Perkons, A. K., Jervis, R. E.

Trace elements in human head hair.

J. Forensic Sciences, **11**, 50-63

(1966).

(ENGLISH). TORONTO, CANADA.

7384 Perkons, A. K., Jervis, R. E.

Application of radioactivation analysis in forensic investigations.

J. Forensic Sciences, **7**, 449-464 (1962).

(ENGLISH). TORONTO, CANADA.

7385 Ehmann, W. D., Baedecker, P. A.

The distribution of gold and iridium in meteoritic and terrestrial materials.

Origin and Distribution of the Elements, 313-319, L. H. Ahrens (Ed.), Pergamon Press (1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

7386 Ehmann, W. D., Lieberman, K. W.,

Tanner, J. T., Lovering, J. F.

Abundances of some volatile elements in meteorites.

Origin and Distribution of the Elements, 313-319, L. H. Ahrens (Ed.), Pergamon Press (1968).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

7387 Janczyszyn, J., Loska, L.,

Taczanowski, S.

Determination of oxygen in metallic copper by fast neutron activation analysis.

Chemia Analityczna, **14**, 391-396 (1969).

(POLISH) (ENGLISH SUMMARY). INSTYTUT TECHNIKI JADROWEJ AKADEMII GORNICZO-HUTNICZEJ, KRAKOW, POLAND.

7388 Yazikov, I. F., Rodin, N. N.,

Dembrovsky, M. A., Lambrev, V. G.

Application of γ spectrometry in determining chlorine in aqueous solutions.

J. Radioanal. Chem., **3**, 11-16 (1969).

(ENGLISH). RESEARCH INSTITUTE OF THE CHLORINE INDUSTRY AND KARPOV

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- PHYSICO CHEMICAL RESEARCH
INSTITUTE, MOSCOW, USSR.
- 7389 Veres, A., Pavlicsek, I.
**Nuclear photoactivation analyses
by means of an 80-kCi ^{60}Co γ
radiation source.**
J. Radioanal. Chem., **3**, 25–28
(1969).
(ENGLISH). INSTITUTE OF ISOTOPES
OF THE HUNGARIAN ACADEMY OF
SCIENCES, BUDAPEST, HUNGARY.
- 7390 Wing, J., Wahlgren, M. A.
**Fluorine analysis by activation
with an isotopic fast-neutron
source and counting nitrogen-16.**
J. Radioanal. Chem., **3**, 37–42
(1969).
(ENGLISH). CHEMISTRY DIVISION,
ARGONNE NATIONAL LABORATORY,
ARGONNE, ILLINOIS.
- 7391 Behne, D.
**The determination by activation
analysis of chromium and zinc in
biological material.**
J. Radioanal. Chem., **3**, 17–24
(1969).
(GERMAN) (ENGLISH SUMMARY).
HAHN-MEITNER INSTITUT, SEKTOR
KERNCHEMIE, BERLIN, GERMANY.
- 7392 Law, J., Iddings, F. A.
**A study of photoactivation with a
 ^{60}Co source.**
J. Radioanal. Chem., **3**, 53–63
(1969).
(ENGLISH). LONGWOOD COLLEGE,
FARMVILLE, VIRGINIA AND NUCLEAR
SCIENCE CENTER, LOUISIANA STATE
UNIVERSITY, BATON ROUGE,
LOUISIANA.
- 7393 Nadkarni, R. A., Ehmman, W. D.
**Determination of trace elements in
biological standard kale by
neutron activation analysis.**
J. Radioanal. Chem., **3**, 175–185
(1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 7394 Cilindro, L. G., Martin, D. S.
**Neutron activation analysis for
iridium, palladium and silver in
platinum.**
J. Radioanal. Chem., **3**, 195–204
(1969).
(ENGLISH). INSTITUTE FOR ATOMIC
RESEARCH AND DEPARTMENT OF
CHEMISTRY, IOWA STATE UNIVERSITY,
AMES, IOWA.
- 7395 De Corte, F., Speecke, A., Hoste,
J.
**Reactor neutron activation
analysis by a triple comparator
method.**
J. Radioanal. Chem., **3**, 205–215
(1969).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.
- 7396 Heydorn, K.
**Determination of the specific
activity of carrier free ^{125}I
preparations by neutron
activation analysis.**
J. Radioanal. Chem., **3**, 225–232
(1969).
(ENGLISH). ISOTOPE LABORATORY,
RESEARCH ESTABLISHMENT RISO,
ROSKILDE, DENMARK.
- 7397 Pillay, K. K. S., Meyer, R. J.,
Larsen, R. P.
**Determination of the fast fission
yield of ^{141}Pr using neutron
activation analysis.**
J. Radioanal. Chem., **3**, 233–243
(1969).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 7398 Wiernik, M., Amiel, S.
**Use of very short-lived nuclides
in nondestructive activation
analysis with a fast shuttle
rabbit. I. Correction for rapid
variations in the dead time.**
J. Radioanal. Chem., **3**, 245–251
(1969).
(ENGLISH). NUCLEAR CHEMISTRY
DEPARTMENT, SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 7399 Malvano, R., Kwiecinski, S.
Neutron activation analysis of traces of chlorine in polyphenyls. Effect of chemical reactions under reactor irradiation.
J. Radioanal. Chem., **3**, 257–260 (1969).
 (ENGLISH). SORIN-SOCIETA RICERCHE IMPIANTI NUCLEARI, SALUGGIA, VERCELLI, ITALY.
- 7400 Andersen, G. H., Algots, J. M.
The effect of sample bulk density on the determination of nitrogen by fast neutron activation analysis.
J. Radioanal. Chem., **3**, 261–264 (1969).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 7401 Rausch, H., Salamon, A.
Activation analysis of manganese in GaAs, GaP and GaAsP semiconductors.
J. Radioanal. Chem., **3**, 265–269 (1969).
 (ENGLISH). RESEARCH INSTITUTE FOR TELECOMMUNICATION, AND RESEARCH INSTITUTE FOR TECHNICAL PHYSICS OF THE HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY.
- 7402 Adams, F., Dams, R.
Gamma-ray energies of radionuclides formed by uranium fission and photon activation.
J. Radioanal. Chem., **3**, 271–285 (1969).
 (ENGLISH). INSTITUTE OF NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 7403 Schramel, P.
Determination of Si, Cl, K, P, Ca and Al in biological materials by activation analysis with 14 MeV neutrons.
J. Radioanal. Chem., **3**, 29–36 (1969).
 (GERMAN) (ENGLISH SUMMARY). GESELLSCHAFT FUR STRAHLENFORSCHUNG, PHYSIKAL. TECHN. ABTEILUNG, NEUHERBERG BEI MUNCHEN.
- 7404 Garrec, J. P., Fer, A., Fourcy, A.
Method for fast determination of iron, aluminum, and silicon in pedology. Activation analysis with 14 MeV neutrons.
C.R. Acad. Sci., Paris, Ser. D, **268**, No. 25, 3021–3024 (1969).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, LABORATOIRE DE RADIOBIOLOGIE, GRENOBLE-GARE, ISERE, FRANCE.
- 7405 Edwards, R. R., Rey, P.
Terrestrial occurrence and distribution of ¹²⁹I.
 NYO-3624-3, 30p. (1967).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, CARNEGIE-MELLON UNIVERSITY, PITTSBURGH, PA.
- 7406 Chin, J., Horsley, J.
Chemical vapor deposition of tungsten.
 GA-8772, 14p. (October 1968).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 7407 Atalla, L. T., Lima, F. W.
The determination of impurities in magnesium metal by activation analysis.
 IEA No. 167, 23p. (June 1968).
 (SPANISH). DIVISAO DE RADIOQUIMICA, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 7408 Das, H. A., Hoede, D., Zonderhuis, J.
A routine determination of chromium in rocks.
Radiochem. Radioanal. Letters, **1**, No. 5, 365–372 (1969).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, HOLLAND.
- 7409 Prouza, Z., Rakovic, M.
Resonance neutrons in activation analysis.
Chem. Listy, **63**, No. 3, 257–272 (1969).
 (CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY, KARLOVA UNIVERSITA, PRAHA, CZECHOSLOVAKIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7410 Abdullaev, A. A., Zakhidov, A. S.,
Nishanov, P. K.
**Determination of tungsten and gold
content in mine waters by neutron
activation.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, 12, No. 5, 60-61
(1968).
(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT.
- 7411 Boreisha, E. G., Kravtsov, V. V.,
Sokolov, L. A.
**Choice of conditions for the
neutron activation determination
of manganese in a two-component
mixture.**
*Visn. Kiyv. Univ., Ser. Fiz.,
Khim.*, 7, 57-61 (1967).
(UKRAINIAN). UKRAINE.
- 7412 Watson, J. E., Fremlin, J. H.,
Stubbins, M. I.
**The distribution of carbon in
human tooth enamel determined by
charged particle activation
analysis.**
Caries Res., 1, 318-326 (1967).
(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
PHYSICS, UNIVERSITY OF
BIRMINGHAM, BIRMINGHAM, ENGLAND.
- 7413 Kosta, L., Ravnik, V.
**Determination of nitrogen in plant
materials by fast neutron
activation analysis.**
Vestn. Slov. Kem. Drus., 14-15,
No. 1-4, 5-14 (1967-1968).
(ENGLISH) (YUGOSLAVIAN SUMMARY).
CHEMISTRY DEPARTMENT AND NUCLEAR
INSTITUTE JOZEF STEFAN,
LJUBLJANA, YUGOSLAVIA.
- 7414 Senftle, F. E., Philbin, P. W.,
Sarigianis, P.
**Use of ^{252}Cf for mineral
exploration. Comparison with
accelerators for in situ neutron
activation of silver.**
CONF-681032, 321-346.
(ENGLISH). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.
- 7415 Bulletin d'Informations A. T. E.
N.
- Changes in the application of
radioisotopes in France during
the period 1961-1966.**
*Bull. Inform. A.T.E.N. (Assn.
Tech. Energ. Nucl). Suppl.*, No.
73, 16-18 (September-October
1968).
(FRENCH). FRANCE.
- 7416 Al Kital, R. A., Chan, L. H.,
Sayre, E. V.
**Neutron activation analysis of
pottery sherds from Hajar Bin
Humeid and related areas.**
*Hajar Bin Humeid, Investigations
at a Pre-Islamic Site in South
Africa*, 387-398, Van Beek, G.W.
(Ed.), Baltimore, Johns Hopkins
Press (1969).
(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.
- 7417 Guinn, V. P.
**In-situ measurement of oxygen in
welds by nondestructive neutron
activation analysis.**
*Proceedings 1968 Symposium on the
NDT of Welds and Materials
Joining*, 547-556, Evanston,
Illinois, The American Society
for Non-Destructive Testing, Inc.
(1968).
(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIF.
- 7418 Bondy, C., Ricq, J. C.
**Some applications of activation to
the analysis of earths, minerals,
and rocks.**
Bull. Soc. Chim. Fr., No. 10,
4277-4279 (October 1968).
(FRENCH). ATOME INDUSTRIEL,
GRENOBLE, FRANCE.
- 7419 Stoll, N., Wagner, A., Goedert, L.
**Application of activation analysis
for determination of oxygen in
steel.**
Stahl Eisen, 88, 775-782 (July 11,
1968).
(GERMAN AND FRENCH). GERMANY.
- 7420 Botzvadze, E. S., Mosulishvili, L.
M., Kuchava, N. E., Ghinturi, E.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

N.

Studies of blood gold levels in patients with jaundice using neutron activation analysis.

Phys. Med. Biol., **14**, 19–26 (January 1969).

(ENGLISH) (FRENCH, GERMAN AND RUSSIAN SUMMARIES). TBILISI MEDICAL INSTITUTE AND INSTITUTE OF PHYSICS, ACADEMY OF SCIENCES OF THE GEORGIAN SSR.

7421 Girardi, F., Sabbioni, E.

Selective removal of radio-sodium from neutron-activated materials by retention on hydrated antimony pentoxide.

J. Radioanal. Chem., **1**, 169–178 (March 1968).

(ENGLISH). NUCLEAR CHEMISTRY LABORATORY, CHEMISTRY DEPARTMENT, EURATOM JOINT NUCLEAR CENTER, ISPRA, VARESE, ITALY.

7422 Lima, F. W., Silva, C. M.

Activation analysis of chromium in water matrix.

J. Radioanal. Chem., **1**, 147–152 (March 1968).

(ENGLISH). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.

7423 Alimarin, I. P., Uakovlev, Y. V.,

Miklishanskii, A. Z., Dogadkin, N. N., Stepanets, O. V.

Determination of dysprosium, europium, samarium, and gadolinium in yttrium oxide of high purity by means of neutron activation analysis.

J. Radioanal. Chem., **1**, 139–145 (March 1968).

(ENGLISH). THE VERNADSKY GEOCHEMICAL AND ANALYTICAL INSTITUTE OF THE SOVIET ACADEMY OF SCIENCES, MOSCOW, USSR.

7424 Chayka, M., Sabo, E., Lavrukhina, A. K.

Instrumental activation analysis for the principal elements in meteorites by means of short-lived isotopes.

Geochem. Int., **4**, 892–902 (1967).

(ENGLISH TRANSLATION). CENTRAL

INSTITUTE FOR PHYSICAL RESEARCH, HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, AND V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES USSR, MOSCOW.

7425 Donaldson, G. W. K., Johnson, P.

F., Tothill, P., Richmond, J.

Red cell survival time in man measured by ⁵⁰Cr and activation analysis.

Brit. Med. J., **1**, 585–587 (June 8, 1968).

(ENGLISH). ROYAL INFIRMARY, EDINBURGH.

7426 Chamberlain, M. J., Fremlin, J.

H., Peters, D. K., Philip, H.

Total-body calcium by whole-body neutron activation. New technique for study of bone disease.

Brit. Med. J., **1**, 581–583 (June 8, 1968).

(ENGLISH). UNIVERSITY OF BIRMINGHAM, BIRMINGHAM, ENGLAND.

7427 Smallwood, R. A., Williams, H. A.,

Rosenoer, V. M., Sherlock, S.

Liver-copper levels in liver disease. Studies using neutron activation analysis.

Lancet, **2**, 1310–1313 (December 21, 1968).

(ENGLISH). DEPARTMENTS OF MEDICINE AND HOSPITAL PHYSICS, ROYAL FREE HOSPITAL, LONDON, ENGLAND.

7428 Freiburg, C., Erdtmann, G.,

Nurnberg, H. W.

Evaluation of gamma-spectra with programs.

Z. Anal. Chem., **245**, 95–103 (1969).

(GERMAN) (ENGLISH SUMMARY). ZENTRALLABOR FU CHEMISCHE ANALYSE DER KERNFORSCHUNGSANLAGE JULICH GMBH.

7429 Comar, D., Desenne, J. J.

The applications of neutron activation analysis in medicine.

Acta Cient. Venez., **18**, 152–158 (1967).

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- (SPANISH) (FRENCH AND ENGLISH SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE, SERVICE HOSPITALIER FREDERIC JOLIOT, ORSAY, FRANCE, AND DEPARTAMENTO DE MEDICINE, HOSPITAL UNIVERSITARIO, CARACAS, VENEZUELA.
- 7430 Mackintosh, W. D., Jarvis, R. E.
Activation analyses of interest to atomic energy programmes.
Proceedings of Second International Conference on Peaceful Uses of Atomic Energy, United Nations, N.Y., 28, 470–477 (1959).
 (ENGLISH). ATOMIC ENERGY OF CANADA LIMITED, CHALK RIVER, ONTARIO.
- 7431 Fleishman, D. M., Lukens, H. R.
Instrumental determination of rare earth elements by activation analysis.
 CONF-681020, Vol. 2, 667–674.
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 7460 Golanski, A.
Contribution to 14 MeV neutron activation analysis using half-lives between 0.55 and 873 milliseconds.
J. Radioanal. Chem., 3, 161–173 (1969).
 (ENGLISH). CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS, ISSY-LES-MOULINEUX, FRANCE.
- 7862 Plaksin, I. N., Belyakov, M. A., Malysheva, N. G., Starchik, L. P.
The application of a (γ , n) nuclear reaction in determining the content of beryllium in solution and as a suspended solid.
Doklady Akad. Nauk SSSR, 141, 1158–1160 (December 11, 1961).
 (RUSSIAN). RUSSIA.
- 7863 Laune, J.
Neutron counting and determination of boron by detection of gamma rays in de-excitation of ^7Li
- nuclei produced by the reaction $^{10}\text{B}(n,\alpha)^7\text{Li}$.**
J. Phys. Radium, 23, 238–240 (April 1962).
 (FRENCH). INSTITUT INTERUNIVERSITAIRE DES SCIENCES NUCLEAIRES, BRUSSELS.
- 7864 Van Loef, J. J.
A note on activation analysis with neutron-induced threshold reactions.
Nukleonik, 4, 151–152 (April 1962).
 (ENGLISH). PHILIPS RESEARCH LABORATORIES N.V. PHILIPS GLOEILAMPENFABRIEKEN EINDHOVEN, NETHERLANDS.
- 7865 Coulomb, R.
Determination of some oligoelements in geological materials by neutron irradiation and paper chromatography.
Compt. Rend., 254, 4328–4329 (June 18, 1962).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES, FONTENAY-AUX-ROSES, FRANCE.
- 7866 Mohnke, M.
Determination of the relative abundance of ^{10}B by activation analysis.
Kernenergie, 5, 436–437 (April–May 1962).
 (GERMAN). INSTITUT FÜR PHYSIKALISCHE TOFFTRENNUNG, LEIPZIG.
- 7867 Butler, J. R., Thompson, A. J.
Ta in the granite G-1.
Geochim. Cosmochim. Acta, 26, 516–517 (April 1962).
 (ENGLISH). PURE GEOCHEMISTRY SECTION, DEPARTMENT GEOLOGY, IMPERIAL COLLEGE, LONDON, ENGLAND.
- 7868 Zmijewska, W.
Precision of the determination of copper, arsenic and antimony from a photopeak decay curve of a gamma spectrum.
Nukleonika, 7, 101–108 (1962).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH) (POLISH AND RUSSIAN SUMMARIES). POLISH ACADEMY OF SCIENCES, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA, POLAND.
- 7869 Goles, G. G., Anders, E.
Abundances of iodine, tellurium and uranium in meteorites.
Geochim. Cosmochim. Acta, **26**, 723–737 (July 1962).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, LA JOLLA, CALIF.
- 7870 Ichimiya, T., Bara, H., Nozaki, T.
Application of radiochemistry to the preparation of high-purity silicon.
Radioisotopes in the Physical Sciences and Industry, Vol. **I**, 533–542, Vienna, International Atomic Energy Agency (1962).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). THE ELECTRICAL COMMUNICATION LABORATORY, MUSASHINO-SHI, TOKYO, JAPAN.
- 7871 Ljunggren, K.
Activation analysis by means of coincidence spectrometry.
Radioisotopes in the Physical Sciences and Industry, Vol. **II**, 199–210, Vienna, International Atomic Energy Agency (1962).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). ISOTOPE TECHNIQUES LABORATORY, STOCKHOLM, SWEDEN.
- 7872 Kuykendall, W. E., Wainerdi, R. E.
An investigation of automated activation analysis.
Radioisotopes in the Physical Sciences and Industry, Vol. **II**, 233–241, Vienna, International Atomic Energy Agency (1962).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). TEXAS A AND M COLLEGE, COLLEGE STATION, TEXAS.
- 7873 Aitken, M. J., Emeleus, V. M., Hall, E. T., Kraay, C. M.
Neutron activation analysis of ancient silver coins.
Radioisotopes in the Physical Sciences and Industry, Vol. **II**, 261–268, Vienna, International Atomic Energy Agency (1962).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). UNIVERSITY OF OXFORD, ENGLAND.
- 7874 Gibbons, D., Simpson, H.
The determination of sulphur in materials of high neutron absorption cross section by fast neutron activation analysis.
Radioisotopes in the Physical Sciences and Industry, Vol. **II**, 269–276, Vienna, International Atomic Energy Agency (1962).
 (ENGLISH) (FRENCH, RUSSIAN AND SPANISH SUMMARIES). WANTAGE RESEARCH LABORATORY, AERE, WANTAGE, BERKS., ENGLAND.
- 7875 Plaksin, I. N., Belyakov, M. A., Starchik, L. P.
The possible selective determination of certain light elements on the basis of the yield of the (α , $n\gamma$) and (α , $p\gamma$) nuclear reactions.
Dokl. Akad. Nauk SSSR, **150**, 1270–1273 (June 21, 1963).
 (Russian). RUSSIA.
 (RUSSIAN). RUSSIA.
- 7876 Hoste, J., Adams, F., Dams, R.
Modern applications of radioisotopes in analytical chemistry.
Chem. Weekblad, **60**, 35–40 (1964).
 (DUTCH). BELGIUM.
- 7877 Frischauf, H., Altmann, H., Kaindl, K.
The trace element content of normal and pathological spleens.
 SGAE-BL-13/1964, 7p. (September 1964).
 (GERMAN). REAKTORZENTRUM SEIBERSDORF.
- 7878 Plaksin, I. N., Anchevskii, E. V., Belyakov, M. A.
The use of a polonium-boron emitter of neutrons in the analysis of ores and dressing products for aluminum.
Dokl. Akad. Nauk SSSR, **163**,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 1202–1204 (August 11, 1965).
(RUSSIAN). RUSSIA.
- 7879 Campero, A., Lukens, H. R.
A new co-precipitation method for the activation analysis simultaneous determination of manganese, copper and zinc in blood serum.
Trans. Amer. Nucl. Soc., **8**, 330 (November 1965).
(ENGLISH). AEC, MEXICO AND GULF GENERAL ATOMIC, SAN DIEGO, CALIF.
- 7880 Niese, S.
Determination of phosphorus, sulfur, and chlorine in arsenic by neutron activation analysis.
Kernenergie, **8**, 499–501 (August 1965).
(GERMAN). ZENTRALINSTITUT FUR KERNFORSCHUNG, ROSSENDORF, GERMANY.
- 7881 Ricci, E.
Output spectrum from 14 MeV neutron generators. Rapid estimation and influence in cross-section measurements and activation analysis.
J. Inorg. Nucl. Chem., **27**, 41–52 (January 1965).
(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 7882 Soremark, R.
Influence of prosthetic materials on the mineral level of oral tissues.
NYO-3481-6, 9p. (May 1965).
(ENGLISH). HARVARD SCHOOL OF DENTAL MEDICINE, BOSTON, MASS.
- 7883 Seiler, H., Erlenmeyer, H.
Flotation and coordination chemistry on a method for enrichment of Ga³⁺.
Helv. Chim. Acta, **48**, 1039–1042 (1965).
(GERMAN) (ENGLISH SUMMARY). INSTITUT FUR ANORGANISCHE CHEMIE DER UNIVERSITAT BASEL.
- 7884 Lukens, H. R., Graber, F. M.
The neutron activation analysis determination of rare-earth elements in silicate ores.
Trans. Amer. Nucl. Soc., **8**, 329 (November 1965).
(ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIF.
- 7885 Rancitelli, L. A., Fisher, D. E.
Nondestructive activation analysis of cobalt in iron meteorites.
Trans. Amer. Nucl. Soc., **8**, 328–329 (November 1965).
(ENGLISH). CORNELL UNIVERSITY, ITHACA, N.Y.
- 7886 Cabell, M. J.
The uses of reactors in (1) neutron activation analysis. (2) The determination of cross sections by activation and mass spectrometric methods.
AERE-L-166, 36p. (October 1965).
(ENGLISH). ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE, ENGLAND.
- 7887 Yamagata, N., Iwashima, K.
Distribution of cesium and rubidium in human blood.
Nature, **211**, 528–529 (July 30, 1966).
(ENGLISH). INSTITUTE OF PUBLIC HEALTH, TOKYO, JAPAN.
- 7888 Akaiwa, H.
Abundances of selenium, tellurium, and indium in meteorites.
J. Geophys. Res., **71**, 1919–1923 (April 1, 1966).
(ENGLISH). ENRICO FERMI INSTITUTE FOR NUCLEAR STUDIES, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.
- 7889 Glubrecht, H.
An indicator activation method.
Atompraxis, **7**, 467–470 (December 1961).
(GERMAN). INSTITUT FUR STRAHLENBIOLOGIE DER TECHNISCHEN HOCHSCHULE HANNOVER, HANNOVER, GERMANY.
- 7890 Von Baeckmann, A.
Use of substoichiometric

ACTIVATION ANALYSIS—BIBLIOGRAPHY

**precipitation reactions in
radiochemical analysis.**

Z. Anal. Chem., **223**, 161–169
(1966).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR RADIOCHEMIE,
KERNFORSCHUNGSZENTRUM KARLSRUHE.

7895 Mednis, I. V.

**Reference tables for neutron
activation analysis.**

*Spravochnye Tablitsy Dlya
Neitronoaktivatsionnogo Analiza*,
207p., Riga, Izdatelstvo Zinatne
(1969).

(RUSSIAN). RUSSIA.

7891 Broda, E.

**Survey of nuclear methods in
chemical technology.**

Ind. Chim. Belge, **32**, Special No.
(Vol. 2), 20–23 (1967).

(ENGLISH). INSTITUT FÜR
PHYSIKALISCHE CHEMIE DER
UNIVERSITÄT WIEN, VIENNA,
AUSTRIA.

7896 Khera, A. K., Steinnes, E.

**Rapid determination of aluminum,
manganese, and sodium in soils by
neutron activation analysis.**

Agrochimica, **13**, No. 6, 524–529
(1969).

(ENGLISH) (FRENCH, GERMAN,
SPANISH AND ITALIAN SUMMARIES).
AGRICULTURAL COLLEGE OF NORWAY,
VOLLEBEKK, NORWAY AND INSTITUT
FOR ATOMENERGI, ISOTOPE
LABORATORIES, KJELLER, NORWAY.

7892 White, J. C., Lyon, W. S.

**Nuclear and radiochemical
analyses.**

ORNL-3537, 71–105 (February 10,
1964).

(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

7897 Cornuet, R.

**Applications of radioelements to
chemical and associated
industries.**

Ind. Chim. Belge, Special No., **32**,
700–708 (1967).

(FRENCH). FRANCE.

7893 Kusaka, Y., Tsuji, H., Shinogi, M.

**Systematic radioactivation
analysis of trace elements in
rice plant determination of
halogen elements.**

Radioisotopes (Tokyo), **17**, 108–112
(March 1968).

(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMISTRY, KONAN
UNIVERSITY, HIGASHINADA-KU, KOBE,
JAPAN.

7898 Bohannon, J. R., Verghese, K.,
Weaver, J. N.

**Neutron activation analysis in
water resources management for
North Carolina.**

Trans. Amer. Nucl. Soc., **12**, 41
(June 1969).

(ENGLISH). NORTH CAROLINA STATE
UNIVERSITY, RALEIGH, N.C.

7894 Shinagawa, M., Oyoshi, A.,
Furushima, K., Uchida, K., Kamei,
M.

**The investigation of isotope
analysis by activation analysis.
in the case of coexistent
indicator system ${}^6\text{Li}$ - ${}^{55}\text{Mn}$.**

Radioisotopes (Tokyo), **17**, 103–107
(March 1968).

(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF ENGINEERING, OSAKA
UNIVERSITY, FACULTY OF
ENGINEERING, KUMAMOTO UNIVERSITY,
INSTITUTE OF ATOMIC ENERGY, KINKI
UNIVERSITY AND TOKAI INSTITUTE,
JAERI, JAPAN.

7899 Pillay, K. K. S., Thomas, C. C.,
Kaminski, J. W.

**Neutron activation analysis of the
selenium content of fossil fuels.**

Trans. Amer. Nucl. Soc., **12**, 41–42
(June 1969).

(ENGLISH). WNY-NRC.

7900 Elkady, A., Duffey, D.

**Identification of gold in mixtures
by neutron capture gamma rays.**

Trans. Amer. Nucl. Soc., **12**, 42–44
(June 1969).

(ENGLISH). UNIVERSITY OF
MARYLAND, COLLEGE PARK, MD.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7901 Das, H. A.
Application of activation analysis to the problem of air pollution.
Chem. Weekbl., **65**, No. 30, 7-8 (1969).
 (DUTCH). NETHERLANDS.
- 7902 Richardson, A. E., Harrison, A.
Determination of aluminum and chlorine in composite propellants by non-destructive activation analysis using a mixture of 14.5 MeV and slow neutrons.
Anal. Chem., **41**, No. 11, 1396-1399 (1969).
 (ENGLISH). BIOLOGICAL CHEMICAL METALLURGICAL BRANCH, DEPARTMENT OF THE ARMY, WHITE SANDS MISSILE RANGE, NEW MEXICO.
- 7903 Barrandon, J. N., Seltz, R.
Determination of fluorine, on the surface of metallic samples, by the reaction $^{19}\text{F}(p, \alpha)^{16}\text{O}$.
Compt. Rend., Ser. C, **268**, 1852-1855 (May 28, 1969).
 (FRENCH). CNRS, VITRY-SUR-SEINE, FRANCE.
- 7904 Lombard, S. M., Isenhour, T. L.
Determination of samarium and gadolinium in rare earth ores by neutron capture gamma ray activation analysis.
Anal. Chem., **41**, No. 8, 1113-1116 (1969).
 (ENGLISH). CHEMISTRY DEPARTMENT, UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON.
- 7905 Wohlleben, K., Schuster, E.
Activation analysis with deuterons. Total capture cross section of the reactions boron-10 (deuteron, neutron) carbon-11, nitrogen-14 (deuteron, neutron) oxygen-15, and oxygen-16 (deuteron, neutron) fluorine-17 up to 3.2 MeV.
Radiochim. Acta, **12**, No. 2, 75-79 (1969).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). FORSCHUNGLABORATORIUM ERLANGEN DER SIEMENS AG.
- 7906 Ikeda, N., Kimura, K., Hasebe, N., Shoji, H.
A new possibility for the method of activation analysis of uranium.
Radiochim. Acta, **12**, No. 2, 72-75 (1969).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, TOKYO KYOIKU UNIVERSITY, OTSUKA, TOKYO.
- 7907 Doty, W. H., Wood, D. E., Schneider, E. L.
Neutron activation analysis of nitrogen in feedstuffs.
J. Assn. Offic. Anal. Chem., **52**, No. 5, 953-956 (1969).
 (ENGLISH). RALSTON PURINA CO., ST. LOUIS, MISSOURI AND KAMAN SCIENCES CORP., COLORADO SPRINGS, COLORADO.
- 7908 Lambert, J. P. F., Levander, O., Argrett, L., Simpson, R. E.
Neutron activation analysis of selenium in biological samples.
J. Assn. Offic. Anal. Chem., **52**, No. 5, 915-917 (1969).
 (ENGLISH). FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C.
- 7909 Brunelle, R. L., Hoffman, C. M., Snow, K. B., Pro, M. J.
Neutron activation and atomic absorption analyses of chemical elements in soil.
J. Assn. Offic. Anal. Chem., **52**, No. 5, 911-914 (1969).
 (ENGLISH). ALCOHOL, TOBACCO AND FIREARMS DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 7910 Spicer, G. S.
The determination of praseodymium in zircon by absorptiometric and radioactivation methods.
 AERE-AM-109, 9p. (March 1969).
 (ENGLISH). ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE.
- 7911 Das, H. A.
The determination of bromine in wheat, flour and bread by neutron activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

RCN-106, 11p. (July 1969).
(ENGLISH). REACTOR CENTRUM,
NEDERLAND.

7912 Tucker, W. O.

Determination of oxygen by neutron activation analysis.

Y-1686, 17p. (September 4, 1969).
(ENGLISH). UNION CARBIDE
CORPORATION, NUCLEAR DIVISION,
OAK RIDGE, TENNESSEE.

7913 Johansen, O., Steinnes, E.

A simple neutron activation method for mercury in biological material.

*Intern. J. Applied Radiation
Isotopes*, **20**, No. 11, 751-755
(1969).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). INSTITUTT FOR
ATOMENERGI, ISOTOPE LABORATORIES,
KJELLER, NORWAY.

7914 Meloni, S., Brandone, A., Maxia,
V.

Chromium separation by inorganic exchangers in activation analysis of biological materials.

*Intern. J. Applied Radiation
Isotopes*, **20**, No. 11, 757-760
(1969).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). LABORATORIO
DI RADIOCHIMICA, ISTITUTO DI
CHIMICA GENERALE, UNIVERSITA DI
PAVIA, PAVIA, ITALY.

7915 Karttunen, E., Gardner, D. G.

A simplified precision system for oxygen analysis by fast neutron activation.

*Intern. J. Appl. Radiation
Isotopes*, **20**, No. 11, 801-805
(1969).

(ENGLISH). DEPARTMENT OF
RADIOCHEMISTRY, UNIVERSITY OF
HELSINKI, HELSINKI, FINLAND AND
LAWRENCE RADIATION LABORATORY,
UNIVERSITY OF CALIFORNIA,
LIVERMORE, CALIF.

7916 Sankar Das, M., Il, K. W., Chul,
L.

Iron wire containing manganese as

flux monitors in activation analysis using short lived radionuclides.

*Intern. J. Appl. Radiation
Isotopes*, **20**, No. 10, 746-747
(1969).

(ENGLISH). ANALYTICAL DIVISION,
BHABHA ATOMIC RESEARCH CENTRE,
TROMBAY, BOMBAY, INDIA AND
CHEMISTRY DIVISION, ATOMIC ENERGY
RESEARCH INSTITUTE, SEOUL, KOREA.

7917 Lacomble, M., Collette, F.,
Hambucken, J.

Determination of the oxygen content of molten steel by neutron activation in an oxygen steel plant.

Arch. Eisenhuettenw., **40**, No. 5,
451-454 (1969).

(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). SERAING, BELGIEN.

7918 Kovanic, P., Sluneko, J.

Activation analysis via static programming.

Atomkernenergie, **14**, 249-253
(July-August 1969).

(ENGLISH) (GERMAN SUMMARY).
NUCLEAR RESEARCH INSTITUTE OF
CZECHOSLOVAK ACADEMY OF SCIENCES,
REZ, PRAGUE, CZECHOSLOVAKIA.

7919 Neeb, K. H., Martin, J., Franke,
R.

Activation analysis of small quantities of tellurium, chlorine, thallium, and nickel in selenium.

Z. Anal. Chem., **247**, No. 1, 27-31
(1969).

(GERMAN) (ENGLISH SUMMARY).
KERNTECHNISCHE LABORATORIEN DER
SIEMENS A.G., ERLANGEN.

7920 Oka, Y., Kato, T., Konami, Y.

Photon activation analysis for arsenic using selenium as internal reference standard.

Bunseki Kagaku, **18**, No. 8, 971-975
(1969).

(JAPANESE) (ENGLISH SUMMARY).
DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOHOKU UNIVERSITY,
KATAHIRA-CHO, SENDAI-SHI.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7921 Neuburger, M., Fourcy, A.
Study of the ruthenium partition in an ecological pond using neutron activation analysis.
Intern. J. Appl. Radiation Isotopes, **20**, No. 9, 641–651 (1969).
 (FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). LABORATOIRE DE BIOLOGIE VEGETALE, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE.
- 7922 Quittner, P., Wainerdi, R. E.
Least-squares resolution of gamma-ray spectra resulting from interfering radioactivities.
Nucl. Instrum. Methods, **74**, No. 1, 33–38 (1969).
 (ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY AND TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 7923 Karev, V. N., Dolya, G. P., Tutubalin, A. I., Kovalenko, L. I.
Determination of antimony in the Bi – Sb alloy by means of neutron activation analysis.
Industrial Laboratory, **35**, No. 3, 354–356 (March 1969).
 (ENGLISH TRANSLATION). PHYSICOTECHNICAL INSTITUTE, ACADEMY OF SCIENCES OF THE UKRSSR.
- 7924 Vasilev, S. S., Mikhailov, G. I., Starchik, L. P., Konanykin, L. V.
Use of the $^{11}\text{B}(p,\gamma)^{12}\text{C}$ reactor for boron determinations.
Industrial Laboratory, **35**, No. 3, 357–358 (March 1969).
 (ENGLISH TRANSLATION). SCIENTIFIC RESEARCH INSTITUTE OF NUCLEAR PHYSICS, M.V. LOMONOSOV MOSCOW STATE UNIVERSITY AND A.A. SKOCHINSKII MINING INSTITUTE.
- 7925 Leushkina, G. V., Lobanov, E. M., Dutov, A. G., Matveeva, N. P.
Sensitivity of activation analysis with short-lived isotopes.
Soviet Atomic Energy, **26**, No. 4, 435–436 (April 1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 7926 Tustanovskii, V. T., Orifkhodzhaev, U.
Determination of selenium by activation with fast neutrons.
Soviet Atomic Energy, **26**, No. 4, 437–38 (April 1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 7927 Kosta, L., Byrne, A. R.
Activation analysis for mercury in biological samples at nanogram level.
Talanta, **16**, No. 9, 1297–1303 (1969).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). FACULTY OF NATURAL SCIENCES, UNIVERSITY OF LJUBLJANA AND NUCLEAR INSTITUTE JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA.
- 7928 Steinnes, E., Brune, D.
Determination of uranium in rocks by instrumental activation analysis using epithermal neutrons.
Talanta, **16**, No. 9, 1326–1329 (1969).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY AND AB ATOMENERGI, STUDSVIK, NYKOPING, SWEDEN.
- 7929 Steinnes, E.
Determination of samarium in rocks by epithermal neutron activation analysis.
Z. Anal. Chem., **247**, No. 1, 23–27 (1969).
 (ENGLISH) (GERMAN SUMMARY). INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.
- 7930 Neirinckx, R., Adams, F., Hoste, J.
Determination of impurities in titanium and titanium dioxide by neutron activation analysis. III. Determination of vanadium and aluminum in titanium and titania by preparation.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Anal. Chim. Acta*, **47**, No. 2,
173–182 (1969).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 7931 Heslop, R. B., Tay, S. K.
**The determination of sulphur in
fluorocarbon polymers by neutron
activation.**
Anal. Chim. Acta, **47**, No. 2,
183–188 (1969).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). CHEMISTRY
DEPARTMENT, THE UNIVERSITY OF
MANCHESTER INSTITUTE OF SCIENCE
AND TECHNOLOGY, MANCHESTER,
ENGLAND.
- 7932 Heslop, R. B., Ramsey, A. C.
**The solvent extraction of
vanadomolybdophosphoric acid as
the basis of a substoichiometric
method for the determination of
phosphorus.**
Anal. Chim. Acta, **47**, No. 2,
305–314 (1969).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). CHEMISTRY
DEPARTMENT, THE UNIVERSITY OF
MANCHESTER INSTITUTE OF SCIENCE
AND TECHNOLOGY, MANCHESTER,
ENGLAND.
- 7933 Heydegger, H. R., Turkevich, A.
**Zn-65, nickel, copper and zinc
contents of the Bogou iron
meteorite.**
J. Geophys. Res., **74**, No. 20,
4949–4957 (September 15, 1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY AND ENRICO FERMI
INSTITUTE, UNIVERSITY OF CHICAGO,
CHICAGO, ILLINOIS.
- 7934 Ballaux, C., Dams, R., Hoste, J.
**Neutron activation analysis of
high-purity selenium. Part V.
Simultaneous determination of
metallic impurities.**
Anal. Chim. Acta, **47**, No. 3,
397–405 (1969).
(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). INSTITUTE FOR
NUCLEAR SCIENCES, GHENT
UNIVERSITY, GHENT, BELGIUM.
- 7935 Piper, D. Z., Goles, G. G.
**Determination of trace elements in
seawater by neutron activation
analysis.**
Anal. Chim. Acta, **47**, No. 3,
560–563 (1969).
(ENGLISH). SCRIPPS INSTITUTION
OF OCEANOGRAPHY AND UNIVERSITY OF
CALIFORNIA, LA JOLLA, CALIF.
- 7936 Sparks, R. J., Mc Callum, G. J.
**Determination of trace elements by
activation analysis with charged
particles.**
N.Z. J. Sci., **12**, No. 3, 470–475
(1969).
(ENGLISH). INSTITUTE OF NUCLEAR
SCIENCES, DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL
RESEARCH, LOWER HUTT, NEW
ZEALAND.
- 7937 Harbottle, G.
**Neutron activation analysis of
potsherds from Knossos and
Mycenae.**
BNL-13740, 24p. (1968).
(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.
- 7938 Morrison, G. H., Gerard, J. T.,
Travesi, A., Currie, R. L.,
Peterson, S. F., Potter, N. M.
**Multielement neutron activation
analysis of rock using chemical
group separations and high
resolution gamma spectrometry.**
Anal. Chem., **41**, No. 12, 1633–1637
(1969).
(ENGLISH). CHEMISTRY DEPARTMENT,
CORNELL UNIVERSITY, ITHACA, N.Y.
- 7939 Turkstra, J., Behrens, G. B., De
Wet, W. J.
**The determination of lanthanum,
samarium, europium and thorium
impurities in nuclear-grade
uranium products.**
J. S. Afr. Chem. Inst., **22**, No. 2,
111–120 (1969).
(ENGLISH) (AFRIKAAN SUMMARY).
CHEMISTRY DIVISION, NATIONAL

ACTIVATION ANALYSIS – ACCESSION NUMBERS

NUCLEAR RESEARCH CENTRE,
PELINDABA.

7940 Fisher, D. E.

Uranium content of some stone meteorites and their Pu–Xe decay interval.

Nature (London), **222**, 1156 (June 21, 1969).

(ENGLISH). INSTITUT OF MARINE SCIENCES, UNIVERSITY OF MIAMI, MIAMI, FLORIDA.

7941 Turkstra, J., De Wet, W. J.

Simultaneous determination of palladium, platinum, and rhodium in crude platinum samples by activation analysis and high resolution gamma spectrometry.

Talanta, **16**, No. 8, 1137–1143 (1969).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). CHEMISTRY DIVISION, ATOMIC ENERGY BOARD, PELINDABA, SOUTH AFRICA.

7942 Gebauhr, W.

Semiconductor investigations using radiochemical methods.

Z. Anal. Chem., **245**, 209–221 (April 29, 1969).

(GERMAN) (ENGLISH SUMMARY). KERNTECHNISCHE LABORATORIEN DER SIEMENS A.G., ERLANGEN.

7943 Lukens, H. R., Guinn, V. P.

Assay of uranium and thorium based upon reactor pulse activation and delayed neutrons.

Trans. Amer. Nucl. Soc., **12**, 45 (June 1969).

(ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIF.

7944 Graber, F. M., Lukens, H. R., Mac Kenzie, J. K.

Neutron activation analysis determination of all 14 rare-earth elements, with group separation and Ge(Li) spectrometry.

Trans. Amer. Nucl. Soc., **12**, 44 (June 1969).

(ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIF.

7945 Draskovic, R. J., Kukoc, A.,
Draskovic, R. S.

Determination of impurities in germanium dioxide, produced in Yugoslavia and by BDH, by activation analysis.

Radiochim. Acta, **12**, No. 2, 69–72 (1969).

(FRENCH) (GERMAN AND ENGLISH SUMMARIES). INSTITUT DES SCIENCES NUCLEAIRES, BORIS KIDRIC VINCA, LABORATORIES DE CHIMIE DE HAUTE ACTIVITE.

7946 Keller, K. A., Munzel, H.

Activation analysis of oxygen with high energy neutrons.

Radiochim. Acta, **12**, No. 1, 51–52 (1969).

(GERMAN). INSTITUT FÜR RADIOCHEMIE, KERNFORSCHUNGSZENTRUM KARLSRUHE.

7947 Morgan, D. J., Black, A.,
Mitchell, G. R.

The determination of inorganic iodide in urine by neutron activation analysis.

Analyst, **94**, No. 1122, 740–743 (September 1969).

(ENGLISH). HEALTH PHYSICS AND MEDICAL DIVISION, AERE, HARWELL, BERKSHIRE, ENGLAND.

7948 Goode, G. C., Baker, C. W.,
Brooke, N. M.

An automated solvent extraction technique for radiochemical group separations. Application to the analysis of glass fragments by thermal neutron activation.

Analyst, **94**, No. 1122, 728–736 (September 1969).

(ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKSHIRE, ENGLAND.

7949 Kotelnikov, L. A., Kuznetsov, R. A.

Photoactivation analysis of antimony–zirconium ion exchangers.

Radiokhimiya, **11**, 256–258 (1969).

(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 7950 Rakovic, M.
New uses of activation analysis in biochemistry.
Chem. Listy, **63**, No. 6, 679–691 (1969).
 (CZECHOSLOVAKIAN). KATEDRA LEKARSKE FYSIKY A NUKLEARNI MEDICINY, FAKULTA VSEOBECNEHO LEKARSTVI KU. PRAHA. CZECHOSLOVAKIA.
- 7951 Schmidt, D., Starke, K.
Radiochemical separations for determination of tin in rocks by neutron activation analysis.
Radiochim. Acta, **11**, 197–202 (June 1969).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT MARBURG UND INSTITUT FUR RADIOCHEMIE DER TECHNISCHEN HOCHSCHULE MUNCHEN IN GARCHING.
- 7952 Wilkniss, P. E.
The determination of fluorine, chlorine, bromine and iodine in a single sample by photon activation analysis.
Radiochim. Acta, **11**, 138–142 (June 1969).
 (ENGLISH). NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.
- 7953 Foreman, J. K.
Radiometric methods for the determination of fluorine. A review.
Analyst, **94**, 425–434 (June 1969).
 (ENGLISH). MINISTRY OF TECHNOLOGY, LABORATORY OF THE GOVERNMENT CHEMIST, LONDON, ENGLAND.
- 7954 Rodenbusch, H., Prokop, R.
Neutron activation analysis in the petroleum industry. II. Examples of application.
Erdoel Kohle, Erdgas, Petrochem., **22**, No. 8, 463–467 (1969).
 (GERMAN) (ENGLISH SUMMARY). JAHRESTAGUNG DER OSTERREICHISCHEN GESELLSCHAFT FUR ERDOLWISSENSCHAFTEN UND DER DEUTSCHEN GESELLSCHAFT FUR MINERALOLWISSENSCHAFT UND KOHLECHEMIE IN SALZBURG.
- 7955 Rodenbusch, H., Prokop, R.
Neutron activation analysis in the mineral oil industry. I. Principle and technique of analysis.
Erdoel Kohle, Erdgas, Petrochem., **22**, No. 7, 384–388 (1969).
 (GERMAN) (ENGLISH SUMMARY). JAHRESTAGUNG DER OSTERREICHISCHEN GESELLSCHAFT FUR ERDOLWISSENSCHAFTEN UND DER DEUTSCHEN GESELLSCHAFT FUR MINERALOLWISSENSCHAFT UND KOHLECHEMIE IN SALZBURG.
- 7956 Balsenc, L., Beeler, R., Haerdi, W., Monnier, D.
Side reactions during neutron activation hafnium determinations. Decay of lutetium-178.
Chimia, **23**, No. 4, 154–155 (1969).
 (FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE CHIMIE ANALYTIQUE AND LABORATOIRES DE PHYSIQUE NUCLEAIRE EXPERIMENTALE, UNIVERSITE DE GENEVE.
- 7957 Kenna, B. T., Harrison, P. E.
Neutron activation study of small particle ablation.
Intern. J. Appl. Radiation Isotopes, **20**, No. 11, 777–789 (1969).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). ANALYTICAL METHODS DIVISION 5421, SANDIA LABORATORIES, ALBUQUERQUE, NEW MEXICO.
- 7958 Coleman, R. F., Wood, G. A.
The value of trace analysis in the comparison of glass fragments. A preliminary study.
AWRE 03/68, 17p. (April 1968).
 (ENGLISH). ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON, BERKS. ENGLAND.
- 7959 Schmidt, G.
Determination of some trace elements in Rhine water by neutron activation analysis.
 KFK–863, 70p. (December 1968).
 (GERMAN). INSTITUT FUR RADIOCHEMIE, GESELLSCHAFT FUR KERNFORSCHUNG M.B.H., KARLSRUHE.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7960 La Fleur, P. D.
Activation analysis section.
Summary of activities, July
1967–June 1968.
 NBS TN-458, 96p. (March 1969).
 (ENGLISH). NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 7961 Steinnes, E.
Rapid determination of aluminum in
rocks by reactor neutron
activation analysis.
 KR-131, 9p. (January 1969).
 (ENGLISH). INSTITUTT FOR
 ATOMENERGI, KJELLER RESEARCH
 ESTABLISHMENT, KJELLER, NORWAY.
- 7962 Golanski, A.
Contribution to activation
analysis with 14 MeV neutrons in
the case of radioelements having
a half-life less than one second.
 CEA-R-3694, 115p. (May 1969).
 (FRENCH). CENTRE D'ETUDES
 NUCLEAIRES DE GRENOBLE.
- 7964 Lutz, G. J., La Fleur, P. D.
Determination of yttrium in rare
earths by photon activation
analysis.
Talanta, **16**, 1457–1460 (1969).
 (ENGLISH) (GERMAN AND FRENCH
 SUMMARIES). ANALYTICAL CHEMISTRY
 DIVISION, NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 7965 Danielsen, A., Steinnes, E.
Activation analysis in medicine.
Saertrykk av Tidsskrift for den
Norske Laegeforening, No. 20,
 1930–1933 (1968).
 (NORWEGIAN) (ENGLISH SUMMARY).
 RIKSHOSPITALET, KIRURGISK
 AVDELING B, AND INSTITUTT FOR
 ATOMENERGI, ISOTOPLABORATORIENE,
 NORWAY.
- 7966 Nargolwalla, S. S., Niewodniczanski,
 J., Suddueth, J. E.
Experimental sensitivities for 3
MeV neutron activation analysis.
Trans. Amer. Nucl. Soc., **12**, No.
 2, 510–511 (November 1969).
 (ENGLISH). NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 7967 Mandler, J. W., Reed, J. H.
NASA's combined neutron
experiment–capture and activation
analysis techniques.
Trans. Amer. Nucl. Soc., **12**, No.
 2, 471–472 (November 1969).
 (ENGLISH). ILLINOIS INSTITUTE OF
 TECHNOLOGY, RESEARCH INSTITUTE,
 CHICAGO, ILL.
- 7968 Cohn, S. H., Dombrowski, C. S.,
 Fairchild, R. G.
In-vivo neutron activation
analysis of calcium in man.
Trans. Amer. Nucl. Soc., **12**, No.
 2, 460 (November 1969).
 (ENGLISH). BROOKHAVEN NATIONAL
 LABORATORY, UPTON, N.Y.
- 7969 Lisovskii, I. P., Smakhtin, L. A.
Determination of oxygen in
polyethylene by activation with
fast neutrons.
J. Anal. Chem., USSR, **24**, No. 5,
 589–591 (May 1969).
 (ENGLISH TRANSLATION). L. YA.
 KARPOV PHYSICO-CHEMICAL INSTITUTE,
 MOSCOW, USSR.
- 7970 Tamura, M.
Determination of nitrogen in
petroleum products by fast
neutron activation and matrix
effects.
Radioisotopes (Tokyo), **18**, 252–257
 (July 1969).
 (JAPANESE) (ENGLISH SUMMARY).
 GOVERNMENT RESOURCE RESEARCH
 INSTITUTE, KOTOBUKI-CHO,
 KAWAGUCHI-SHI, SAITAMA, JAPAN.
- 7974 Fisher, D. E.
Silicon in iron meteorites and the
earths core.
Nature, **222**, No. 5196, 866–867
 (May 31, 1969).
 (ENGLISH). INSTITUTE OF MARINE
 SCIENCES, UNIVERSITY OF MIAMI,
 MIAMI, FLORIDA.
- 7975 Fisher, D. E., Bostrom, K.
Uranium rich sediments on the East
Pacific Rise.
Nature, **224**, No. 5214, 64–65
 (October 4, 1969).
 (ENGLISH). INSTITUTE OF MARINE

ACTIVATION ANALYSIS—BIBLIOGRAPHY

SCIENCES, UNIVERSITY OF MIAMI,
MIAMI, FLORIDA.

DEPARTMENT OF NEUROPSYCHIATRY,
WAKAYAMA MEDICAL COLLEGE.

- 7976 Lofberg, R. T., Angel, C. R.
A simplified neutron activation analysis method for copper and manganese.
Anal. Letters, **2**, 239–245 (May 1969).
(ENGLISH). WALTER REED ARMY INSTITUTE OF RESEARCH, WASHINGTON, D.C., AND MEDICAL FIELD SERVICE SCHOOL, FORT SAM HOUSTON, TEXAS.
- 7977 Allen, H. E., Hahn, R. B.
Determination of phosphate in natural waters by activation analysis of tungstophosphoric acid.
Environ. Sci. Technol., **3**, No. 9, 844–848 (1969).
(ENGLISH). U.S. BUREAU OF COMMERCIAL FISHERIES, BIOLOGICAL LABORATORY, ANN ARBOR AND DEPARTMENT OF CHEMISTRY, WAYNE STATE UNIVERSITY, DETROIT, MICHIGAN.
- 7978 Oosterom, M. G., Das, H. A.
Neutron activation analysis of Vourinos and Othrys ultramafic rocks and serpentinites with special reference to alkali contents.
Proc. Kon. Ned. Akad. Wetensch., *Ser. B*, **72**, No. 3, 175–191 (1969).
(ENGLISH). DEPARTMENT OF GEOCHEMISTRY, VENING MEINESZ LABORATORY, UNIVERSITY OF UTRECHT AND DEPARTMENT OF CHEMISTRY, REACTOR CENTRUM NEDERLAND, PETTEN, NETHERLANDS.
- 7979 Yoshimasu, F.
Metal metabolism in neurological disease, concerning the relationship between amyotrophic lateral sclerosis and the metabolism in manganese.
Wakayama Igaku, **20**, No. 1, 31–49 (February 1969).
(JAPANESE) (ENGLISH SUMMARY).
- 7980 Aoki, F., Okada, M.
Basic study on activation analysis. III. Method of the choice of cooling time to reduce interfering activity in neutron activation analysis.
Tokyo Kogyo Shikensho Hokoku, **58**, 479–485 (November 1963).
(JAPANESE) (ENGLISH SUMMARY). JAPAN.
- 7981 Imamura, M., Matsuda, H., Horie, K., Honda, M.
Applications of neutron activation method for ^{53}Mn in meteoritic iron.
Earth Planet. Sci. Lett., **6**, 165–172 (May 1969).
(ENGLISH). THE INSTITUTE FOR SOLID STATE PHYSICS, UNIVERSITY OF TOKYO, MINATO-KU, TOKYO, JAPAN.
- 7982 Kim, C. K.
Oxygen content of gallium phosphide, silicon and germanium by helium-3 activation.
Radiochem. Radioanal. Letters, **2**, No. 2, 53–60 (October 13, 1969).
(ENGLISH). BELL TELEPHONE LABORATORIES, INC., MURRAY HILL, N.J.
- 7983 Nadkarni, R. A., Ehmann, W. D.
Determination of trace elements in the reference cigarette tobacco by neutron activation analysis.
Radiochem. Radioanal. Letters, **2**, No. 3, 161–168 (November 20, 1969).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 7984 Buchanan, J. D.
Activation analysis using a research reactor.
Atompraxis, **8**, 272–278 (July 1962).
(ENGLISH). GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 7985 Smathers, J. B., Duffey, D.,
Lakshmanan, S.
**Derivative neutron activation
determination of magnesium.**
Nucl. Appl. Technol., **7**, 84–88
(July 1969).
(ENGLISH). WALTER REED ARMY
INSTITUTE OF RESEARCH,
WASHINGTON, D.C., AND UNIVERSITY
OF MARYLAND, COLLEGE PARK,
MARYLAND.
- 7986 Facetti, J. F., Facetti, F.
**Element traces investigation in
waters of Lake Ypacarai. Part 1.**
*5th Inter-American Symposium on
the Peaceful Application of
Nuclear Energy*, 105–107,
Washington, D.C., Pan American
Union (1965).
(SPANISH) (ENGLISH SUMMARY).
COMISION NACIONAL DE ENERGIA
ATOMICA DEL PARAGUAY, ASUNCION,
PARAGUAY.
- 7987 Das, H. A., Sijperda, W. S.
**The application of neutron
activation analysis in
geochemistry.**
Geol. Mijubouw, **47**, 395–404
(November–December 1968).
(ENGLISH). REACTOR CENTRUM
NEDERLAND AND INSTITUUT VOOR
AARDWETENSCHAPPEN DER VRIJE
UNIVERSITEIT, AMSTERDAM,
NETHERLANDS.
- 7988 Kline, J. R., Brar, S. S.
**Instrumental analysis of neutron
irradiated soils.**
Soil Sci. Soc. Amer., Proc., **33**,
234–238 (March–April 1969).
(ENGLISH). DIVISION OF
BIOLOGICAL AND MEDICAL RESEARCH,
ARGONNE NATIONAL LABORATORY,
ARGONNE, ILLINOIS.
- 7989 Kline, J. R., Foss, J. E., Brar,
S. S.
**Lanthanum and scandium
distribution in three glacial
soils of Western Wisconsin.**
Soil Sci. Soc. Amer., Proc., **33**,
287–291 (March–April 1969).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS,
- AND UNIVERSITY OF MARYLAND,
COLLEGE PARK, MARYLAND.
- 7990 Morgan, J. W., Lovering, J. F.,
Ford, R. J.
**Rhenium and nonradiogenic osmium
in Australian molybdenites and
other sulfide minerals by neutron
activation analysis.**
J. Geol. Soc. Aust., **15**, 189–194
(1968).
(ENGLISH). AUSTRALIA.
- 7991 Yase, Y., Kumamoto, T., Yoshimasu,
F., Shinjo, Y.
**Amyotrophic lateral sclerosis
studies using neutron activation
analysis.**
Neurol. India, **16**, 46–50
(April–June 1968).
(ENGLISH). DIVISION OF
NEUROLOGICAL DISEASES, WAKAYAMA
MEDICAL COLLEGE, WAKAYAMA, JAPAN.
- 7992 Molokhia, M. M., Portnoy, B.
**Neutron activation analysis of
trace elements in skin. I. Copper
in normal skin.**
Brit. J. Dermatol., **81**, 110–114
(February 1969).
(ENGLISH). MANCHESTER AND
SALFORD HOSPITAL FOR SKIN
DISEASES, MANCHESTER.
- 7993 Ueda, H., Iwase, T., Iio, M.,
Kameda, H., Nagao, H., Tani, A.
**The determination of copper and
manganese in the human liver by
neutron activation analysis.**
Kaku Igaku, **5**, No. 3, 157–164
(October 1968).
(JAPANESE) (ENGLISH SUMMARY).
THE SECOND DEPARTMENT OF INTERNAL
MEDICINE, FACULTY OF MEDICINE,
UNIVERSITY OF TOKYO, AND NAIC
NUCLEAR RESEARCH LABORATORY,
KAWASAKI-SHI, JAPAN.
- 7994 Mountjoy, W., Lipp, H. H.
**Some factors affecting the
determination of beryllium by the
gamma-ray activation method.**
U.S. Geol. Survey Profess. Papers,
No. 424–C, C379–C380 (1961).
(ENGLISH). DENVER, COLORADO.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 7995 Yoshihara, K.
Studies on the radioactivation by the cobalt-60 gamma ray source. V. Nondestructive analysis by the (gamma, gamma) reaction.
Doitai to Hoshasen, **4**, No. 2, 102-104 (1961).
 (JAPANESE) (ENGLISH SUMMARY).
 JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, NAKA-GUN, IBARAKI-KEN. JAPAN.
- 7996 Niwase, T., Kozuka, H., Nishida, S., Isono, H., Tsunoda, N.
Neutron activation analysis of upper layer paint chips of car. Its advantage for emission and infrared spectrophotometry.
Kagaku Keisatsu Kenkyusho Hokoku, **21**, 275-281 (December 1968).
 (JAPANESE) (ENGLISH SUMMARY).
 NATIONAL RESEARCH INSTITUTE OF POLICE SCIENCE, TOKYO. JAPAN.
- 7997 Niese, H.
Activation analysis purity tests of targets for isotope production.
Acta Chem. Acad. Sci. Hung., **26**, No. 1-4, 235-241 (1961).
 (GERMAN). ZENTRALINSTITUT FÜR KERNPHYSIK, ROSSENDORF, BEREICH RADIOCHEMIE.
- 7998 Moauro, A., Marangio, G., Dobici, F.
Determination of the iodine release in human urine from a synthetic curare-like compound by neutron activation analysis.
Minerva Fisiconucl., **11**, 109-111 (1967).
 (ENGLISH). C.N.E.N.-C.S.N. CASSACCIA AND C.N.E.N. - ISTITUTO F. GIORDANI. ROMA. ITALY.
- 7999 Feldman, M. H., Reba, R. C., Battistone, G. C.
A simplified rapid determination of manganese in biological specimens by neutron activation analysis.
J. Nucl. Med., **7**, 548-555 (August 1966).
 (ENGLISH). BETHESDA, MARYLAND.
- 8000 Mulvey, P. F., Cardarelli, J. A., Zoukis, M., Cooper, R. D., Burrows, B. A.
Sensitivity of bremsstrahlung activation analysis for iodine determination.
J. Nucl. Med., **7**, 603-611 (August 1966).
 (ENGLISH). BOSTON, MASSACHUSETTS.
- 8001 Akaboshi, M., Maeda, T., Noda, M., Waki, A.
Determination of trace elements in DNase I by the activation analysis.
Dobutsugaku Zasshi, **76**, 235-238 (July 1967).
 (JAPANESE) (ENGLISH SUMMARY).
 RESEARCH REACTOR INSTITUTE, KYOTO UNIVERSITY, KUMATORICHO, SENNAN-GUN. OSAKA. JAPAN.
- 8002 Christensen, P., Christiansen, E. M.
Data handling system for activation analysis by means of a small process computer.
 EUR-4289, 317-319.
 (ENGLISH). DANISH AEC RESEARCH ESTABLISHMENT RISO, ELECTRONICS DEPARTMENT.
- 8003 Di Cola, G., Girardi, F., Guzzi, G., Termanini, A.
Data acquisition and reduction in activation analysis by on line computer.
 EUR-4289, 313-316.
 (ENGLISH). JOINT NUCLEAR RESEARCH CENTER, ISPRA, VARESE, ITALY.
- 8004 Arcipiani, L., Farinelli, U., Gibello, A.
A computer on line in activation measurements.
 EUR-4289, 283-289.
 (ENGLISH). C.N.E.N., C.S.N., CASACCIA, ROMA.
- 8005 Grosse-Ruyken, H., Rommel, H.
Activation and analytical purity testing of rare earths.
Isotopentechnik, **2**, No. 3, 66-69 (March 1962).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (GERMAN). TECHNISCHE HOCHSCHULE,
DRESDEN.
- 8006 Genaeva, L. I., Kashkarov, L. L.,
Lavrukhina, A. K.
**The determination of uranium in
stony meteorites by registration
of fission fragment tracks.**
Meteoritika, No. 28, 102–106
(1968).
(RUSSIAN). RUSSIA.
- 8007 Bulashevich, Y. P.
**Nuclear geophysical investigations
of drill-holes during prospecting
for coal and non-ferrous metals.**
Acta Geophys. Polon., 13, 107–120
(1965).
(RUSSIAN). INSTITUTE OF
GEOPHYSICS, ACADEMY OF SCIENCES,
USSR.
- 8008 Shinbori, Y., Kuwahara, H., Soya,
I.
**Determination of trace elements in
purified soybean oil by
activation analysis. IV.**
Determination of mercury.
Radioisotopes, 18, No. 6, 219–220
(1969).
(JAPANESE). MUSASHI KOGYO
DAIGAKU, KAWASAKI, JAPAN.
- 8009 Guinn, V. P.
**Activation analysis of biological
samples for trace elements.**
Trans. Amer. Nucl. Soc., 12, No.
2, 457 (November 1969).
(ENGLISH). GULF GENERAL ATOMIC,
SAN DIEGO, CALIF.
- 8010 Balcius, D. M., Linekin, G. L.
**Neutron activation of iodine
employing a high resolution
Ge(Li) detector.**
Trans. Amer. Nucl. Soc., 12, No.
2, 458 (November 1969).
(ENGLISH). MASSACHUSETTS GENERAL
HOSPITAL.
- 8011 Tomlinson, R. H., Billingham, M.
W.
**Determination of organic iodine in
human serum.**
Trans. Amer. Nucl. Soc., 12, No.
2, 458–459 (November 1969).
(ENGLISH). MC MASTER UNIVERSITY,
HAMILTON, ONT., CANADA.
- 8012 Nelp, W. B., Murano, R.,
Pailthorp, K. G., Palmer, H. E.,
Rich, C., Williams, J. L., Rudd,
T. G., Hinn, G. M.
**Measuring total body calcium by in
vivo neutron activation analysis.**
Trans. Amer. Nucl. Soc., 12, No.
2, 459–460 (November 1969).
(ENGLISH). UNIVERSITY OF
WASHINGTON SCHOOL OF MEDICINE.
- 8013 Bethard, W. F.
**The uses of enriched stable
isotopes in medicine.**
Trans. Amer. Nucl. Soc., 12, No.
2, 461 (November 1969).
(ENGLISH). ISO-MED.
- 8014 Preskitt, C. A., John, J.,
Reynolds, G. M.
**Interpretation of gamma-ray data
from planetary assay probes.**
Trans. Amer. Nucl. Soc., 12, No.
2, 471 (November 1969).
(ENGLISH). GULF GENERAL ATOMIC,
SAN DIEGO, CALIF.
- 8015 Trombka, J. I., Schmadebeck, R.
L., Senftle, F. E.
**A mobile geochemical laboratory
system using remote data analysis
and acquisition.**
Trans. Amer. Nucl. Soc., 12, No.
2, 472–473 (November 1969).
(ENGLISH). GODDARD SFC AND U.S.
GEOLOGICAL SURVEY.
- 8016 Trombka, J. I.
**Analysis of continuous
pulse-height spectra.**
Trans. Amer. Nucl. Soc., 12, No.
2, 473–474 (November 1969).
(ENGLISH). GODDARD SFC.
- 8017 Brar, S. S., Gustafson, P. F.
**Neutron activation analysis of
airborne trace elements in the
Chicago area.**
Trans. Amer. Nucl. Soc., 12, No.
2, 485–486 (November 1969).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILL. 2, 500 (November 1969).
(ENGLISH). STANFORD.
- 8018 Wiggins, P. F., Senftle, F. E., Duffey, D.
Californium-252 as a neutron source for marine exploration.
Trans. Amer. Nucl. Soc., **12**, No. 2, 492 (November 1969).
(ENGLISH). U.S. NAVAL ACADEMY, U.S. GEOLOGICAL SURVEY AND UNIVERSITY OF MARYLAND, COLLEGE PARK, MD.
- 8019 Olin, J. S., Miller, E. C., Thompson, B. A.
Analysis of medieval stained glass by neutron activation.
Trans. Amer. Nucl. Soc., **12**, No. 2, 492–493 (November 1969).
(ENGLISH). SMITHSONIAN AND NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8020 Gills, T. E., La Fleur, P. D.
The determination of short-lived trace impurities in sodium metal by neutron activation analysis.
Trans. Amer. Nucl. Soc., **12**, No. 2, 494–495 (November 1969).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8021 Becker, D. A.
Neutron activation analysis of sodium at the picogram level.
Trans. Amer. Nucl. Soc., **12**, No. 2, 495 (November 1969).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8022 Gage, S. J., Richardson, R. H., Bouchey, G. D.
Neutron activation techniques for labeling of insects with stable elements.
Trans. Amer. Nucl. Soc., **12**, No. 2, 495–496 (November 1969).
(ENGLISH). UNIVERSITY OF TEXAS, AUSTIN, TEXAS.
- 8023 Channell, J. K., Kruger, P.
Activation analysis for estuarine tracer studies.
Trans. Amer. Nucl. Soc., **12**, No. 2, 500 (November 1969).
(ENGLISH). STANFORD.
- 8024 Schmotzer, J. K., Jester, W. A.
Ground water tracing with post-sampling neutron activation.
Trans. Amer. Nucl. Soc., **12**, No. 2, 502 (November 1969).
(ENGLISH). PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA.
- 8025 Anders, O. U.
Routine fast activation analysis.
Trans. Amer. Nucl. Soc., **12**, No. 2, 503 (November 1969).
(ENGLISH). DOW CHEMICAL CO., MIDLAND, MICHIGAN.
- 8026 Comar, D.
Capture gamma-ray analysis.
Trans. Amer. Nucl. Soc., **12**, No. 2, 503–504 (November 1969).
(ENGLISH). CEA, SACLAY, FRANCE.
- 8027 La Fleur, P. D.
Neutron activation analysis. Some novel approaches.
Trans. Amer. Nucl. Soc., **12**, No. 2, 504 (November 1969).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8028 Mackintosh, W. D.
Charged-particle activation analysis.
Trans. Amer. Nucl. Soc., **12**, No. 2, 504–505 (November 1969).
(ENGLISH). AECL.
- 8029 Ricci, E.
Nuclear microprobe method (prompt nuclear-reaction analysis).
Trans. Amer. Nucl. Soc., **12**, No. 2, 505–506 (November 1969).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 8030 Guinn, V. P.
The activation analysis expert in court – an inside view.
Trans. Amer. Nucl. Soc., **12**, No. 2, 506–507 (November 1969).
(ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIF.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 8031 Coleman, R. F., Goode, G. C.,
Wood, G. A.
**Identification of samples and
individuals by multi-element
activation analysis.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 507–508 (November 1969).
(ENGLISH). UKAEA, ALDERMASTON.
- 8032 Maletskos, C. J.
**Problems in the use of activation
analytical evidence in court.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 508 (November 1969).
(ENGLISH). NEW ENGLAND DEACONESS
HOSPITAL.
- 8033 Meinke, W. W.
**Availability of standards for
activation analysis.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 509 (November 1969).
(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 8034 Ricci, E., Gibbons, J. H.
**Proton-reaction analysis for ^{12}C ,
 ^{13}C , and ^{15}N . Sensitivity and
biomedical application.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 509–510 (November 1969).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 8035 Wiernik, M., Amiel, S.
**Lithium isotopic analysis by
simultaneous measurements of ^8Li
and ^{17}N .**
Trans. Amer. Nucl. Soc., **12**, No.
2, 518 (November 1969).
(ENGLISH). SOREQ NRC, ISRAEL.
- 8036 Jamieson, J. M., Graham, W. W.
**Cyclic activation in a reactor
neutron beam.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 519–520 (November 1969).
(ENGLISH). GEORGIA INSTITUTE OF
TECHNOLOGY, ATLANTA, GA.
- 8037 Lutz, G. J., Masters, L. W.
**The determination of carbon in
metals by photon activation
analysis.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 521 (November 1969).
- (ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 8038 Cardarelli, J. A., Podolsky, S.,
Burrows, B. A.
**Neutron activation analysis of
stable iodinated (^{127}I) porcine
insulin.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 521–522 (November 1969).
(ENGLISH). VA HOSPITAL, BOSTON, MASS.
- 8039 Mackintosh, W. D.
**Investigations of fluorine
deposits on zircaloy surfaces by
proton activation.**
Trans. Amer. Nucl. Soc., **12**, No.
2, 540–541 (November 1969).
(ENGLISH). AECL.
- 8040 Ishii, D., Jinno, K.
**Activation analysis of nitrogen
with 14 MeV neutrons using
aluminum as internal standard.**
Kogyo Kagaku Zasshi, **72**, 656–660
(March 1969).
(JAPANESE). NAGOYA UNIVERSITY,
JAPAN.
- 8041 Kusugi, T., Ogawa, T.
**Studies on the behavior of trace
heavy metals in silicon crystal
by neutron activation analysis.**
Hitachi Hyoron, **46**, No. 9, 1–6
(September 1964).
(JAPANESE). HITACHI, LTD.,
TOKYO, JAPAN.
- 8042 Pelekis, Z. E., Pelekis, L. L.
**Selectivity of methods for neutron
activation analysis in reactors.**
*Metody i Primenenie Neytronoaktivna
tsionnogo Analiza*, 13–20,
Pelekis, L.L. (Ed.), Izdatelstvo
Zinatne, Riga, USSR (1969).
(RUSSIAN). RUSSIA.
- 8043 Saitsev, E. I., Malyshev, V. I.,
Salmin, Y. P., Shiryaeva, M. B.,
Yakubovich, A. L.
**Several possibilities for the
application of nuclear physical
methods of analysis in
geochemical exploratory studies**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

on ore deposits.

Z. Angew. Geol., **11**, 180–183
(April 1965).

(GERMAN TRANSLATION). RUSSIA.

rocks by photoneutron analysis.

Rudy Metale Niezelaz., **14**, No. 6,
331–335 (1969).

(POLISH). POLAND.

- 8044 Plaksin, I. N., Smirnov, V. N.
The problem of the quantitative control of the products of beneficiation by means of alpha radiation.
Izv. Akad. Nauk SSSR, Otdel. Tekh. Nauk, Met. i Toplivo, No. 4,
118–122 (July–August 1961).
(RUSSIAN). RUSSIA.

- 8050 Pelekis, L. L.
Relative and absolute methods of neutron activation analysis.
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 5–12, Pelekis, L.L. (Ed.), Izdatelstvo Zinatne, Riga, USSR (1969).
(RUSSIAN). RUSSIA.

- 8045 Das, H. A.
Third international conference on modern trends in activation analysis.
Atoomenerg. Haar Toepass., **11**, No. 5, 135–141 (1969).
(DUTCH). NETHERLANDS.

- 8051 Henke, G., Westerboer, S., Porthoine, H.
The determination of mercury in renal punctate by means of neutron activation analysis.
Arch. Toxikol., **23**, 293–298 (1968).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR PHARMAZEUTISCHE CHEMIE UND MEDIZINISCHE KLINIK DER WESTFALISCHEN WILHELMS UNIVERSITAT MUNSTER.

- 8046 Tani, A., Matsuda, Y.
Activation analysis by pulsed neutrons.
Oyo Butsuri, **38**, No. 1, 84–88 (1969).
(JAPANESE). NUCLEAR RESEARCH GROUP, NIPPON ATOMIC INDUSTRIAL GROUP CO. LTD., KAWASAKI, JAPAN.

- 8052 Wong, P. Y., Fritze, K.
Determination by neutron activation of copper, manganese, and zinc in the pineal body and other areas of brain tissue.
J. Neurochem., **16**, No. 8, 1231–1234 (1969).
(ENGLISH). DEPARTMENT OF CHEMISTRY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.

- 8047 Lobanov, E. M., Khusnutdinov, R. I.
Neutron activation method for zirconium determination in its minerals and products.
Dokl. Akad. Nauk Uz. SSR, **22**, No. 10, 25–28 (1965).
(RUSSIAN). RUSSIA.

- 8053 Retief, D. H., Van Wyk, C. W., Turkstra, J.
Neutron activation and high resolution gamma spectrometry.
J. Dent. Assn. S. Afr., **24**, 69–75 (March 1969).
(ENGLISH). UNIVERSITY OF WITWATERSRAND, JOHANNESBURG.

- 8048 Abrams, I. A., Pelekis, L. L.
Gamma activation analysis by using gamma-rays with energy below the threshold of photonuclear reactions.
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 71–79, Pelekis, L.L. (Ed.), Izdatelstvo Zinatne, Riga, USSR (1969).
(RUSSIAN). RUSSIA.

- 8054 Retief, D. H., Van Wyk, C. W., Turkstra, J.
A qualitative and comparative study of elements in teeth by neutron activation and high-resolution gamma spectrometry.
J. Dent. Assn. S. Afr., **24**, 75–80

- 8049 Sachanbinski, M., Szuskiewicz, M.
Determination of beryllium in

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(March 1969).

(ENGLISH). UNIVERSITY OF
WITWATERSRAND, JOHANNESBURG.

8055 Pijck, J., Hoste, J.

The determination of sodium and potassium in biological material by neutron activation analysis.

Clin. Chim. Acta, **7**, 5–12 (January 1962).

(ENGLISH). LABORATORY FOR
ANALYTICAL CHEMISTRY, UNIVERSITY
OF GHENT, BELGIUM.

8056 Odeblad, E., Malmfors, K. G.

Combined deuteron activation and autoradiography of histological sections.

Acta Isotopica, **1**, 127–136 (1961).

(ENGLISH) (ITALIAN, GERMAN AND
FRENCH SUMMARIES). NOBEL
INSTITUTE OF PHYSICS, THE ISOTOPE
LABORATORY, DEPARTMENT OF
GYNECOLOGY, SABBATSBURG HOSPITAL
AND DEPARTMENT OF MEDICAL
PHYSICS, KAROLINSKA INSTITUTET,
STOCKHOLM, SWEDEN.

8057 Haerdi, W., Monnier, D.

Nondestructive elementary analysis by gamma spectrometer after neutron activation. Nomographic determination of limits of detection of elements in complex media.

*Proceedings of the Analytical
Chemical Conference, Budapest*,
316–322 (1966).

(ENGLISH). INSTITUTE OF
INORGANIC AND ANALYTICAL
CHEMISTRY OF THE UNIVERSITY,
GENEVA, SWITZERLAND.

8058 Voldet, P.

Neutron activation and gamma spectrometry of short-lived isotopes applied to the nondestructive determination of fluorine.

Thesis. Universite de Geneve,
17p. (1966).

(FRENCH). UNIVERSITE DE GENEVE,
GENEVE, SWITZERLAND.

8059 Pierce, T. B., Haines, K.

The determination of silicon in intact steel samples with a low output neutron generator.

Analyst, **94**, No. 1123, 886–887
(October 1969).

(ENGLISH). ANALYTICAL SCIENCES
DIVISION, AERE, HARWELL, DIDCOT,
BERKS. ENGLAND.

8060 Johansen, O., Steinnes, E.

Determination of tin in geological material by neutron activation analysis.

Analyst, **94**, No. 1124, 976–978
(October 1969).

(ENGLISH). INSTITUTT FOR
ATOMENERGI, ISOTOPE LABORATORIES,
KJELLER, NORWAY.

8061 Haldar, B. C.

Some recent developments in neutron activation analysis.

*Proceedings of the Nuclear and
Radiation Chemistry Symposium*,
1966, 189–193, Bombay, Department
of Atomic Energy (1966).

(ENGLISH). INORGANIC AND NUCLEAR
CHEMISTRY LABORATORY, INSTITUTE
OF SCIENCE, BOMBAY, INDIA.

8062 Morgan, J. W., Ehmann, W. D.

Multiparameter coincidence spectrometry applied to the nondestructive neutron activation analysis of meteorites.

Analytical Letters, **2**, No. 10,
537–545 (1969).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

8063 Balsenc, L., Haerdi, W., Monnier, D.

Separation and determination of traces of hafnium in scandium by neutron activation.

Anal. Chim. Acta, **48**, No. 2,
213–218 (1969).

(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). INSTITUT DE CHIMIE
ET MINERALE DE L'UNIVERSITE,
GENEVE, SUISSE.

8064 Machiroux, R., Mousty, F.

Determination of impurities in

ACTIVATION ANALYSIS—BIBLIOGRAPHY

**zinc by neutron activation. II.
Determination of germanium.**

Anal. Chim. Acta, **48**, No. 2,
219–226 (1969).

(FRENCH) (ENGLISH SUMMARY).
LABORATOIRES DE CHIMIE
ANALYTIQUE, UNIVERSITE DE LIEGE,
LIEGE, BELGIQUE.

8065 Samadi, A. A., May, S.

**Radioactivation determination of
titanium and lead in high purity
aluminum and iron.**

Bull. Soc. Chim. Fr., No. 10,
3776–3784 (1969).

(FRENCH). SERVICE PHYSICO CHIMIE
APPLIQUEE CEA CEN SACLAY.

8066 Deschamps, N., Fedoroff, M.

**Use of short-lived radioisotopes
in the determination of trace
elements in high purity metals by
neutron activation.**

Z. Anal. Chem., **247**, No. 3–4,
221–224 (1969).

(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE D'ANALYSE PAR
ACTIVATION DU C.E.C.M.,
VITRY-SUR-SEINE, FRANCE.

8067 Neeb, K. H., Franke, R., Neidl, H.

**Use of a Ge(Li) detector in
radiochemical analysis. I.
Activation analysis of ppm
amounts of tellurium in selenium.**

Z. Anal. Chem., **247**, No. 3–4,
225–228 (1969).

(GERMAN) (ENGLISH SUMMARY).
KERNTECHNISCHE LABORATORIEN DER
SIEMENS AG, ERLANGEN.

8068 Nagy, L. G., Torok, G., Szokolyi,
L., Giber, J.

**Determination of copper and gold
contamination in high-purity
gallium by means of pretreatment
and activation analysis.**

Magy. Kem. Foly., **75**, No. 11,
496–499 (1969).

(HUNGARIAN) (ENGLISH SUMMARY).
ORSZAGOS MERESUGYI HIVATAL AND
EGYESULT IZZOLAMPA ES
VILLAMOSSAGI RT., BUDAPEST.

8069 Michaelis, W.

**Nondestructive analysis of nuclear
fuels by radiative neutron
capture.**

Atomkernenergie, **14**, No. 5,
347–351 (1969).

(ENGLISH) (GERMAN SUMMARY).
INSTITUT FUR ANGEWANDTE
KERNPHYSIK, KERNFORSCHUNGSZENTRUM
KARLSRUHE, KARLSRUHE.

8070 Thompson, B. A., La Fleur, P. D.

**Activation analysis for molybdenum
in samples containing large
amounts of tungsten.**

Anal. Chem., **41**, No. 13, 1888–1889
(1969).

(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

8071 Brunfelt, A. O., Steinnes, E.

**Determination of lutetium,
ytterbium, and terbium in rocks
by neutron activation and mixed
solvent anion exchange
chromatography.**

Analyst, **94**, No. 1124, 979–984
(1969).

(ENGLISH). MINERALOGICAL-GEOLOGI-
CAL MUSEUM, UNIVERSITY OF OSLO
AND INSTITUTT FOR ATOMENERGI,
ISOTOPE LABORATORIES, KJELLER,
NORWAY.

8072 Argonne National Laboratory

**A system for the neutron
activation analysis of trace
elements in samples of biological
and environmental interest.**

Argonne National Laboratory
Reviews, 98–105 (October 1969).

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

8073 Das, H. A.

**Elemental analysis by neutron
capture gamma ray activation
analysis. Future supplement to
activation analysis.**

Chem. Weekbl., **65**, No. 38, 11–12
(1969).

(DUTCH). NETHERLANDS.

8074 Goldberg, E. D., Koide, M.,

Schmitt, R. A., Smith, R. H.
Rare earth distributions in the

ACTIVATION ANALYSIS—ACCESSION NUMBERS

marine environment.

J. Geophys. Res., **68**, No. 14,
4209–4217 (July 15, 1963).

(ENGLISH). UNIVERSITY OF
CALIFORNIA AT SAN DIEGO, LA JOLLA
AND GENERAL ATOMIC DIVISION, SAN
DIEGO, CALIF.

Philips Tech. Rev., **30**, No. 4,
97–105 (1969).

(ENGLISH). DIVISION OF MINERAL
CHEMISTRY OF THE COMMONWEALTH
SCIENTIFIC AND INDUSTRIAL
RESEARCH ORGANISATION, PORT
MELBOURNE, VICTORIA, AUSTRALIA.

8075 Csada, I., Erdey Schneer, A.,
Rausch, H.
**Activation analysis of
contaminants in processing agents
used in telecommunication
industry.**

*KFKI (Kozp. Fiz. Kut. Intez.)
Kozlem.*, **16**, No. 4, 219–224
(1968).

(HUNGARIAN). MTA SZERVETLEN
KEMIAI KUTATOCSPORT AND
TAVKOZLESI KUTATO INTEZET,
HUNGARY.

8080 Lunde, G.
**Analysis of single crystal silicon
slices by neutron activation.**
Solid State Technol., **11**, 32–38
(January 1968).

(ENGLISH). CENTRAL INSTITUTE FOR
INDUSTRIAL RESEARCH, BLINDERN,
OSLO, NORWAY.

8076 Altmann, H.
**Neutron activation analysis in
medicine.**

Wein Tieraerztl. Monatsschr., **54**,
756–763 (November 1967).

(GERMAN). INSTITUT FUR BIOLOGIE
UND LANDWIRTSCHAFT, SEIBERSDORF,
AUSTRIA.

8081 Simpson, H., Utley, D.
**Determination of phosphorus in low
phosphorus steels.**
Metallurgia, **79**, No. 472, 79–83
(1969).

(ENGLISH). WANTAGE RESEARCH
LABORATORIES, AERE, WANTAGE,
BERKS., AND BRISTOL AEROJET
LIMITED, BANWELL, WESTON-SUPER-MA
RE.

8077 Iya, V. K.
**The applications of radioisotopes
in metallurgy in India—present
position and future
potentialities.**

J. Sci. Ind. Res., **28**, No. 1,
17–21 (1969).

(ENGLISH). ISOTOPE DIVISION,
BHABHA ATOMIC RESEARCH CENTRE,
BOMBAY, INDIA.

8082 Michelsen, O. B., Steinnes, E.
**Determination of europium in
minerals and rocks by neutron
activation and gamma-gamma
coincidence spectrometry.**
Talanta, **16**, No. 10, 1436–1439
(1969).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.

8078 Bock, R., Tschopel, P.
**Chemical behavior and
determination of small amounts of
tellurium.**

Z. Anal. Chem., **246**, 81–108
(1969).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FUR ANORGANISCHE CHEMIE
UND KERNCHEMIE DER JOHANNES
GUTENBERG UNIVERSITAT MAINZ.

8083 Boudin, A., Dehon, M.
**Quantitative determination of
lutetium in minerals.**
Geochim. Cosmochim. Acta, **33**, No.
1, 142–147 (1969).

(FRENCH) (ENGLISH SUMMARY).
SERVICE DE GEOLOGIE ET GEOCHIMIE
NUCLEAIRES, UNIVERSITE LIBRE DE
BRUXELLES, BELGIQUE.

8084 Tertoolen, J. F. W.
Activation analysis. Review.
Chem. Weekbl., **65**, No. 36, 20–23
(1969).

(DUTCH). NETHERLANDS.

8079 Wylie, A. W., Eisler, P. L.
Prospecting with neutrons.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 8085 Morgan, J. W., Rebagay, T. V., Showalter, D. L., Nadkarni, R. A., Gillum, D. E., Mc Kown, D. M., Ehmann, W. D.
Allende meteorite. Some major and trace element abundances by neutron activation analysis.
Nature (London), **224**, No. 5221, 789–791 (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8086 Ruf, H.
Determination of small amounts of cadmium in uranium oxide by neutron activation analysis.
Z. Anal. Chem., **247**, No. 5–6, 297–301 (1969).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR RADIOCHEMIE, KERNFORSCHUNGSZENTRUM KARLSRUHE.
- 8087 Krasnov, N. N.
Physical principles of activation analysis with charged particles.
Soviet Atomic Energy, **26**, No. 3, 314–315 (March 1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 8088 Lesbats, A.
Systematic analysis of magnesium of high purity, determination of sodium in aluminum and magnesium. Separation and determination of rare earths in aluminum.
Ann. Chim. (Paris), **4**, No. 1, 29–42 (1969).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ÉTUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE.
- 8089 Bate, L. C.
Adsorption and elution of trace elements on human hair.
Intern. J. Appl. Radiation Isotopes, **17**, 417–423 (1966).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 8090 Starchik, L. P., Kodiri, S., Abbosov, O., Deev, Y. S.
Determination of mercury in ores and by-products of ore treatment using a resonance excitation reaction.
Industrial Laboratory, **34**, No. 11, 1612–1614 (November 1968).
 (ENGLISH TRANSLATION). A.A. SKOCHINSKII INSTITUTE OF MINING.
- 8091 Leushkina, G. V., Lobanov, E. M., Dutov, A. G., Matveeva, N. P.
Rapid determination of tungsten and hafnium in pure molybdenum.
Industrial Laboratory, **35**, No. 6, 857–858 (June 1969).
 (ENGLISH TRANSLATION). INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF THE UZSSR.
- 8092 Frigerio, N. A.
Time and energy factors in the activation analysis of biomedical samples.
 ANL-7535, 246–249 (December 1968).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 8093 Sheen, E. M.
Control system for in vivo neutron activation of short half-life nuclides.
 BNWL-1051 (Part 3), 35–37 (July 1969).
 (ENGLISH). BATTELLE NORTHWEST, RICHLAND, WASHINGTON.
- 8094 Carpenter, B. S., Cheek, C. H.
Trace determination of uranium in biological material by fission track counting.
Anal. Chem., **42**, 121–123 (January 1970).
 (ENGLISH). INSTITUTE FOR MATERIALS RESEARCH, NATIONAL BUREAU OF STANDARDS, AND DEPARTMENT OF CHEMISTRY, HOWARD UNIVERSITY, WASHINGTON, D.C.
- 8095 Keisch, B.
Application of nuclear technology to art identification problems.
 NYO-3953-1, 48p. (February 1969).
 (ENGLISH). RADIATION RESEARCH LABORATORIES, MELLON INSTITUTE, PITTSBURGH, PA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 8098 Daniel, R. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
Study of some nuclear reactions induced by fast reactor neutrons and their applications to the radiochemical determination of the elements, specifically to silicon.
 Thesis. Universite de Geneve, 13p. (1968).
 (FRENCH). UNIVERSITE DE GENEVE, GENEVE, SWITZERLAND. (RUSSIAN). RUSSIA.
- 8099 Palmai, G., Vajta, L., Szebenyi, I., Toth, G.
Activation analytical determination of sodium and manganese content in petroleum distillation residues.
Period. Polytech., Chem. Eng. (Budapest), 13, No. 1-2, 99-104 (1969).
 (GERMAN). LEHRSTUHL FUR CHEMISCHE TECHNOLOGIE, TECHNISCHE UNIVERSITAT, BUDAPEST.
- 8100 Schlesinger, H. L., Hoffman, C. M., Pro, M. J.
Identification of bullet holes by residue transfer.
J. Assoc. Offic. Anal. Chemists, 50, 376-380 (1967).
 (ENGLISH). ALCOHOL AND TOBACCO TAX DIVISION, LABORATORY BRANCH, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 8108 Lobanov, E. M., Dutov, A. G., Leushkina, G. V., Linkevich, V. Z., Matveeva, N. M., Zverev, B. P.
Determination of impurities in pure niobium by activation analysis.
Aktivatsionnyii Analiz Chistykh Materialov, 9-15, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8109 Lobanov, E. M., Krasivina, L. E., Zverev, B. P., Usmanova, M. M.
Determination of tantalum and tungsten in boron by reactor neutron activation.
Aktivatsionnyii Analiz Chistykh Materialov, 16-22, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8110 Lobanov, E. M., Ganiev, A. G., Silvanovich, Y. A., Khudaibergenov, U.
Determination of the impurities in gallium arsenide by neutron activation analysis with chemical decomposition of the sample.
Aktivatsionnyii Analiz Chistykh Materialov, 33-37, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8111 Gilbert, E. N., Pronin, V. A., Silvanovich, Y. A., Ganiev, A. G.
Neutron activation determination of iron, gallium, antimony, and gold in refined palladium.
Aktivatsionnyii Analiz Chistykh Materialov, 38-40, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8112 Ganiev, A. G., Rybnov, V. V., Nazmitdinov, M. K.
Determination of platinum, iridium, gold, and copper impurities in refined palladium by an activation method.
Aktivatsionnyii Analiz Chistykh Materialov, 41-44, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8113 Ganiev, A. G., Mukhtarov, R. M., Yankovskaya, T. A.
Determination of rhodium in a refined ruthenium and palladium powders by activation analysis.
Aktivatsionnyii Analiz Chistykh Materialov, 45-49, Zverev, B.P. (Ed.), *Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).*
 (RUSSIAN). RUSSIA.
- 8114 Abrarov, O. A., Imamov, T. K., Sabirov, S. S.
Neutron activation method for determining antimony in

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- electrolytic tellurium.**
Aktivatsionnyii Analiz Chistykh Materialov, 66–68, Zverev, B.P. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).
 (RUSSIAN). RUSSIA.
- 8115 Ganiev, A. G., Khudaibergenov, U.
Determination of indium, gold and manganese in high purity gallium by a radioactivation method.
Aktivatsionnyii Analiz Chistykh Materialov, 69–72, Zverev, B.P. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).
 (RUSSIAN). RUSSIA.
- 8116 Sattarov, M., Talanin, Y. N.
Gamma-spectra of some elements obtained with the aid of 14.5 MeV neutrons.
Aktivatsionnyii Analiz Chistykh Materialov, 83–93, Zverev, B.P. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).
 (RUSSIAN). RUSSIA.
- 8117 Lobanov, E. M., Aripov, G., Allabergenov, B. R.
Identification of the radiative capture gamma-ray spectra of specimens of multicomponent systems.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 38–43, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8118 Lobanov, E. M., Mingaliev, G. G., Khusnutdinov, R. I.
Determination of the strontium–barium ratio in celestite, strontianite, and gypsum and of barium in strontium salts by neutron activation.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 64–70, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8119 Lobanov, E. M., Mingaliev, G. G., Khusnutdinov, R. I.
Determination of fluorine in synthetic micas by neutron activation.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 71–76, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8120 Lobanov, E. M., Mingaliev, G. G.
Rapid neutron activation determination of vanadium and manganese in clays from petroleum deposits.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 84–88, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8121 Lobanov, E. M., Babaev, A., Nurmatov, D., Abbosov, O., Umarov, M. U.
Determination of dysprosium, europium, samarium, neodymium, cerium, praseodymium, and lanthanum in monazite by activation analysis.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 102–108, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8122 Lobanov, E. M., Babaev, A., Abbosov, O., Nurmatov, D., Umarov, M. U.
Determination of some rare-earth elements in mixtures by an activation method.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 109–116, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8123 Ganiev, A., Mukhtarov, R. M., Yankovskaya, T. A.
Neutron activation determination of arsenic in rocks.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov*, 117–120, Lobanov, E. M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8124 Kryzhenkova, N. A., Kist, A. A., Lobanov, E. M., Sattarov, M. S., Talanin, Y. N.
Determination of some elements by activation with fast neutrons.
Aktivatsionnyii Analiz Biologicheskikh Obektov, 21–30, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8125 Lobanov, E. M., Miranskii, I. A., Saifutdinova, D. G., Pozychanyuk, V. F., Khaidarov, A. A.
Calculation of the self-shielding of neutrons during the activation analysis of gold-bearing ores.
Aktivatsionnyii Analiz Gornyykh Porod i Drugikh Obektov, 47–55, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8126 Pozychanyuk, V. F., Romanov, M. M., Khaidarov, A. A.
Use of the spectrometric analysis of gamma-radiation from the radiation capture of thermal neutrons for determining mercury in test wells.
Aktivatsionnyii Analiz Gornyykh Porod i Drugikh Obektov, 74–77, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8127 Abdullaev, A. A., Anishchenko, Y. M., Grakhov, V. A., Zakhidov, A. S., Khaitov, B. K.
Determination of manganese and sodium in soils by a neutron activation method.
Aktivatsionnyii Analiz Gornyykh Porod i Drugikh Obektov, 90–94, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8128 Lobanov, E. M., Miranskii, I. A., Pozychanyuk, V. F., Saifutdinova, D. G., Khaidarov, A. A.
Mass analysis of ore samples for gold content by a neutron activation analysis method.
Aktivatsionnyii Analiz Gornyykh Porod i Drugikh Obektov, 102–107, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8129 Lobanov, E. M., Zinovev, N. V.
Evaluation of methods for measurement and mathematical treatment of activity decay curves.
Aktivatsionnyii Analiz Gornyykh Porod i Drugikh Obektov, 167–180, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8130 Kist, A. A., Zvyagina, L. S., Lobanov, E. M., Moskovtseva, G. A.
Determination of halogens in biological materials by an activation method.
Zh. Anal. Khimii, **20**, No. 1, 112–117 (1965).
(RUSSIAN) (ENGLISH SUMMARY). INSTITUTE OF NUCLEAR PHYSICS, UZBEK SSR ACADEMY OF SCIENCES, TASHKENT.
- 8131 Tang, C. W., Maletskos, C. J.
Elimination of sodium-24 and potassium-42 interferences in activation analysis of biological samples.
Science, **167**, 52–54 (2 January 1970).
(ENGLISH). CANCER RESEARCH INSTITUTE, NEW ENGLAND DEACONESS HOSPITAL AND DEPARTMENT OF PATHOLOGY, HARVARD MEDICAL SCHOOL, BOSTON, MASS.
- 8132 Guinn, V. P.
Forensic activation analysis as applied to the work of the coroner.
GA-8839, 20p. (October 1969).
(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8133 De Wet, W. J.
A selective method for the complete removal of sodium from samples in activation analysis.
J. S. Afr. Chem. Inst., **22**, No. 3, 168–174 (1969).
 (ENGLISH) (AFRIKAAN SUMMARY). CHEMISTRY DIVISION, NATIONAL NUCLEAR RESEARCH CENTRE, PELINDABA, PRETORIA.
- 8134 Robertson, D. E., Prospero, J. M.
Trace element concentrations in Atlantic Ocean waters between Florida and Ivory Coast, Africa.
 BNWL-1051 (Part 2), 53–58 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8135 Campero, A., Graber, F. M., Lukens, H. R.
Neutron activation analysis of biological materials.
 CNM-R-2 (Vol. 1), 346–356.
 (ENGLISH). REACTOR CENTRO NUCLEAR, COMISION NACIONAL DE ENERGIA NUCLEAR, MEXICO AND GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 8136 Frigerio, N. A.
The biological and medical utilization of research reactors.
 CNM-R-2 (Vol. 2), 797–825.
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 8137 Guinn, V. P.
Uses of research reactors for activation analysis.
 CNM-R-2 (Vol. 3), 1215–1229.
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 8138 Senftle, F. E.
Neutron activation techniques for precious metal exploration. Final report.
 TID-25169, 35p. (November 29, 1967).
 (ENGLISH). GEOLOGICAL SURVEY, WASHINGTON, D.C.
- 8139 Rancitelli, L. A., Perkins, R. W., Renzetti, A. D.
The multielement analysis of human lung tissue.
 BNWL-1051 (Part 2), 6–9 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8140 Robertson, D. E., Prospero, J. M.
Trace element concentrations in Atlantic Ocean waters between Florida and Ivory Coast, Africa.
 BNWL-1051 (Part 2), 53–58 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8141 Robertson, D. E.
The distribution of sixteen trace elements in pelagic sediment cores from the South Pacific Ocean.
 BNWL-1051 (Part 2), 59–63 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8142 Cooper, J. A.
Evaluation of Ge(Li) Compton suppression spectrometers for radiochemical analysis.
 BNWL-1051 (Part 2), 121–127 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8143 Rancitelli, L. A.
Neutron activation analysis of a standard plant material.
 BNWL-1051 (Part 2), 131–134 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8144 Rancitelli, L. A.
Trace element concentrations in the atmosphere.
 BNWL-1051 (Part 2), 135–137 (June 1969).
 (ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8145 Rancitelli, L. A., Tanner, T. M.
Multielement analysis of Columbia River water by neutron activation and chemical separation techniques.
 BNWL-1051 (Part 2), 137–141 (June 1969).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.
- 46 Rancitelli, L. A., Tanner, T. M.,
Dean, J. M.
**The elemental content and
retention of a rainbow trout.**
BNWL-1051 (Part 2), 142-146 (June
1969).
- (ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.
- 47 Rancitelli, L. A.
**The multielement analysis of
Pacific salmon tissue.**
BNWL-1051 (Part 2), 146-151 (June
1969).
- (ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.
- 48 Rancitelli, L. A., Templeton, W.
L., Dean, J. M.
**The trace element content of
aquatic organisms from Panama and
Colombia.**
BNWL-1051 (Part 2), 152-155 (June
1969).
- (ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.
- 150 Guinn, V. P.
**A forensic activation analysis
bibliography.**
GA-9912, 13p. (January 20, 1970).
- (ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIF.
- 151 Lobanov, E. M., Mingaliev, G. G.
**Neutron activation determination
of some elements in crude oil
samples.**
*Aktivatsionnyii Analiz Elementiogo
Sostava Geologicheskikh Obektov*,
89-92, Lobanov, E.M. (Ed.),
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
- (RUSSIAN). RUSSIA.
- 152 Starodubtsev, S. V., Nagaibekov,
R. B., Bobrova, A. N., Zverev, B.
- P.
**Activation analysis of the
transport of the material of
vacuum contact electrodes
(tungsten, molybdenum, copper).**
*Aktivatsionnyii Analiz Chistykh
Materialov*, 5-8, Zverev, B.P.
(Ed.), Izdatelstvo Fan Uzbekskoi
SSR, Tashkent (1968).
- (RUSSIAN). RUSSIA.
- 8153 Lobanov, E. M., Zinovev, N. V.,
Dutov, A. G.
**Partial interpretation of
amplitude spectra by the method
of least squares.**
*Aktivatsionnyii Analiz Chistykh
Materialov*, 26-32, Zverev, B.P.
(Ed.), Izdatelstvo Fan Uzbekskoi
SSR, Tashkent (1968).
- (RUSSIAN). RUSSIA.
- 8154 Ganiev, A. G., Khudaibergenov, U.,
Mukhtarov, R. M.
**Radioactivation analysis of high
purity indium antimonide.**
*Aktivatsionnyii Analiz Chistykh
Materialov*, 55-60, Zverev, B.P.
(Ed.), Izdatelstvo Fan Uzbekskoi
SSR, Tashkent (1968).
- (RUSSIAN). RUSSIA.
- 8155 Ganiev, A. G., Nazmitdinov, M. K.,
Rybnov, V. V., Mukhtarov, R. M.
**Determination of some trace
impurities in pure materials.**
*Aktivatsionnyii Analiz Chistykh
Materialov*, 61-65, Zverev, B.P.
(Ed.), Izdatelstvo Fan Uzbekskoi
SSR, Tashkent (1968).
- (RUSSIAN). RUSSIA.
- 8156 Pelekis, Z. E., Pelekis, L. L.,
Taure, I. Y.
**Neutron activation determination
of impurities in ionic crystals
according to long-lived isotopes.**
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 135-142,
Pelekis, L.L. (Ed.), Izdatelstvo
Zinatne, Riga, USSR (1969).
- (RUSSIAN). RUSSIA.
- 8157 Tomov, T., Gadzhokov, V., Popov,
K.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Lowering of the experimental error in the activation analysis without a chemical processing.**
Compt. Rend. Acad. Bulgare Sci., **19**, No. 6, 469–472 (1966).
(RUSSIAN). PHYS. INST. BULGARIAN ACAD. SCI., SOFIA.
- 8158 Shuba, I. D., Razumova, G. N., Bocharova, N. N.
Determination of indium in germanium by neutron activation.
Radiokhimiya, **10**, No. 4, 503–506 (1968).
(RUSSIAN). RUSSIA.
- 8159 Das, H. A., Zonderhuis, J., Hoede, D.
Routine analysis of rock samples by neutron activation analysis.
Chem. Weekblad, **64**, No. 27, 11–15 (1968).
(DUTCH). REACTOR CENTRUM NEDERLAND.
- 8160 Abdullaev, A. A., Gureev, E. S., Grakhov, V. A., Zhuk, L. I., Zakhidov, A. S.
Determination of gold in natural waters by activation analysis with preliminary chromatographic concentration.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.–Mat. Nauk, **12**, No. 1, 59–61 (1968).
(RUSSIAN). INST. YAD. FIZ., TASHKENT, USSR.
- 8162 Lesbats, A.
Systematic analysis of high-purity aluminum.
Ann. Chim. (Paris), **3**, No. 4, 293–310 (1968).
(FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, FRANCE.
- 8163 Dolginov, L. M., Marunina, N. O., Nashelskii, A. Y., Sukhov, G. V.
An instrumental radioactivation analysis of gallium arsenide phosphide solid solutions by means of an internal standard.
J. Anal. Chem., USSR, **24**, No. 7, 867–870 (July 1969).
(ENGLISH TRANSLATION). STATE SCIENTIFIC RESEARCH AND DESIGN INSTITUTE OF THE RARE METAL INDUSTRY, MOSCOW.
- 8164 Veveris, O. E., Mikhelson, G. G., Pelekis, Z. E., Pelekis, L. L., Taure, I. Y.
Determination of selenium in biological materials by neutron activation analysis using 8-mercaptoquinoline.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 2, 25–28 (1969).
(RUSSIAN). INSTITUTE OF PHYSICS, RIGA.
- 8165 Perezhugin, G. A., Sidorova, L. P.
A radioactive determination of phosphorus using substoichiometric separation.
J. Anal. Chem., USSR, **24**, No. 4, 435–438 (April 1969).
(ENGLISH TRANSLATION). RUSSIA.
- 8166 Quittner, P.
Precise peak area determination for Ge(Li) detectors.
Anal. Chem., **41**, No. 11, 1504–1506 (1969).
(ENGLISH). TEXAS A AND M UNIVERSITY, ACTIVATION ANALYSIS RESEARCH LABORATORY, COLLEGE STATION, TEXAS.
- 8167 Kochevanov, V. A., Kuznetsov, R. A.
Determination of oxygen in titanium, beryllium, and aluminum by means of photostimulation.
Industrial Laboratory, **31**, No. 2, 244–247 (1965).
(ENGLISH TRANSLATION). A.A. ZHDANOV LENINGRAD STATE UNIVERSITY.
- 8168 Razumova, G. N., Shuba, I. D.
Determination of rhenium in germanium by a neutron activation method.
Radiokhimiya, **11**, No. 3, 354–356 (1969).
(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 169 Bate, L. C., Dyer, F. F.
Forensic applications of trace elements in hair.
 GA-8171, 247-259 (1967).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 170 Krasnov, N. N.
Physical bases of activation analysis of charged particles.
 FEI-128, 17p. (1968).
 (RUSSIAN). GOSUDARSTVENNYI KOMITET PO ISPOLZOVANIYU ATOMNOI ENERGII SSSR, FIZIKO ENERGETICHESKII INSTITUT, OBRINSK.
- 171 Hashimoto, T., Toshikawa, H.
Activation analysis of phosphorus compounds.
Seikagaku, **33**, 383-387 (1961).
 (JAPANESE). UNIVERSITY OF TOKYO, TOKYO.JAPAN.
- 172 Hamaguchi, H.
Radioactivation analysis.
Genshiryoku Kogyo, **12**, No. 8, 51-55 (1966).
 (JAPANESE). UNIVERSITY TOKYO, TOKYO.JAPAN.
- 173 Fischer, W.
Determination of zirconium in hafnium concentrates via the nuclear reaction $^{90}\text{Zr} (n,p) ^{90}\text{Y}$.
Isotopenpraxis, **5**, 64-66 (February 1969).
 (GERMAN). INSTITUT FUR KRAFTWERKE, FACHBEREICH KERNENERGETIK.
- 174 Keepin, G. R.
Detection, identification, and analysis of fissionable isotopes.
 U.S. Patent 3,456,113. 15 July 1969.
 (ENGLISH). LOS ALAMOS, NEW MEXICO.
- 175 Frank, D. H.
Neutron activation spectrometry system.
 U.S. Patent 3,376,420. August 10, 1964.
 (ENGLISH). SKOKIE, ILLINOIS.
- 8176 Pritchett, R. A.
Methods of and means for assaying material having a fissionable content.
 U.S. Patent 3,018,374. January 23, 1962.
 (ENGLISH). DALLAS, TEXAS.
- 8177 Verbinski, V. V.
Flaw detection.
 U.S. Patent 3,025,399. March 13, 1962.
 (ENGLISH). SCHENECTADY, NEW YORK.
- 8178 Schultz, W. W.
Homogeneity measurement.
 U.S. Patent 3,025,400. March 13, 1962.
 (ENGLISH). SCHENECTADY, NEW YORK.
- 8179 Senftle, F. E., Hoyte, A. F., Martinez, P.
Mineral ore exploration apparatus utilizing neutron activation.
 U.S. Patent 3,463,922. 26 August 1969.
 (ENGLISH). CHEVY CHASE, MARYLAND, WASHINGTON, D.C., AND ACCOKEEK, MARYLAND.
- 8180 Basdekas, D. L.
Method for measuring fissionable material content of fuels.
 U.S. Patent 3,436,538. May 1, 1969.
 (ENGLISH). SAN ANTONIO, TEXAS.
- 8181 Bando, S., Imahashi, T.
Determination of vanadium in deposit and airborne particulate by neutron activation analysis.
Bunseki Kagaku, **18**, No. 12, 1477-1482 (1969).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, OARAI-MACHI, HIGASHIBARAKI-GUN, IBARAKI-KEN.
- 8182 Vogg, H.
Isotope technique in the textile industry.
Melliand Textilber, **50**, No. 11, 1361-1365 (1969).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (GERMAN). LABORATORIUM FÜR ISOTOPENTECHNIK, GESELLSCHAFT FÜR KERNFORSCHUNG M.B.H., KARLSRUHE.
- 8183 Runge, K., Zappe, D.
Comparison of radioactive labeling with indicator activation analysis in residence time spectrum measurements.
Isotopenpraxis, **5**, No. 3, 102–105 (1969).
 (GERMAN). INSTITUT FÜR ANWENDUNG RADIOAKTIVER ISOTOPE DER TECHNISCHEN UNIVERSITÄT DRESDEN.
- 8184 Kochevanov, V. A., Kuznetsov, R. A.
Determination of zirconium in alloys with beryllium, magnesium, aluminum, and niobium by photoactivation.
Soviet Atomic Energy, **24**, No. 2, 217 (February 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 8185 Dorosh, M. M., Mazyukevich, N. P., Shkoda-Ulyanov, V. A.
A new method for determining the fluorine concentrations of pure metals and other substances.
Soviet Atomic Energy, **24**, No. 3, 337–340 (March 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 8186 Starchik, L. P., Deev, Y. S., Kodiri, S., Abbosov, O., Kruglyi, M. S.
Determination of indium by the (γ , γ') reaction with a 5-MeV linear electron accelerator.
Soviet Atomic Energy, **224**, No. 3, 348–349 (March 1968).
 (ENGLISH TRANSLATION). RUSSIA.
- 8187 Perezhogin, G. A., Meshcheryakov, V. G.
Application of neutron activation analysis to the investigation of dopants distribution in epitaxial silicon films (exchange of experience).
Industrial Laboratory, **35**, No. 7, 979–980 (July 1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 8188 Chamberlain, M. J.
Activation analysis of man.
New Sci., **43**, 575–579 (September 18, 1969).
 (ENGLISH). UNIVERSITY OF BIRMINGHAM, ENGLAND.
- 8189 Ellis, S. C.
Industrial applications of radioisotopes.
Repts. Progr. Appl. Chem., **48**, 296–306 (1963).
 (ENGLISH). ISOTOPE APPLICATIONS UNIT, NATIONAL CHEMICAL LABORATORY.
- 8190 Turkstra, J., De Wet, W. J.
The determination of low $^{235}\text{U}/^{238}\text{U}$ ratios by activation analysis utilizing high resolution gamma spectrometry.
J. S. Afr. Chem. Inst., **22**, 1–11 (January 1969).
 (ENGLISH) (AFRIKAAN SUMMARY). CHEMICAL DIVISION, NATIONAL NUCLEAR RESEARCH CENTRE, PELINDABA.
- 8191 Turkstra, J., De Wet, W. J.
The determination of Hf/Zr ratio in various South African zircons by means of high-resolution gamma spectrometry.
J. S. Afr. Chem. Inst., **22**, 43–49 (January 1969).
 (ENGLISH) (AFRIKAAN SUMMARY). CHEMISTRY DIVISION, ATOMIC ENERGY BOARD, PRETORIA.
- 8192 Kotelnikov, L. A., Kuznetsov, R. A.
Photoactivation analysis of phosphorus-zirconium ion exchanger.
Radiokhimiya, **11**, No. 5, 614–616 (1969).
 (RUSSIAN). RUSSIA.
- 8193 Vasilev, I. Y., Razumova, G. N., Shuba, I. D.
Determination of trace impurities in indium antimonide by a neutron activation method.
Radiokhimiya, **11**, No. 5, 573–576 (1969).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 194 Van Zelst, L.
Applications of non-destructive activation analysis.
Chem. Weekblad, **65**, No. 45, 41-43 (1969).
 (DUTCH). NETHERLANDS. 99-125 (1969).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, BELGIUM.
- 195 Girardi, F., Pietra, R., Sabbioni, E.
Radiochemical separation by retention on ionic precipitates. Adsorption tests on 17 materials.
 EUR-4287, 100p. (May 14, 1969).
 (ENGLISH). JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ITALY.
- 196 Livingston, H. D., Thompson, G.
Trace element concentrations in some modern corals.
 NYO-2174-96, 28p. (May 1969).
 (ENGLISH). WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASSACHUSETTS.
- 197 Rebagay, T. V.
The determination of zirconium and hafnium in meteorites and terrestrial materials by activation analysis.
 ORO-2670-31, 169p. (August 1, 1969).
 (ENGLISH). UNIVERSITY OF KENTUCKY, DEPARTMENT OF CHEMISTRY, LEXINGTON, KENTUCKY.
- 198 Herr, W., Herpers, U., Wolfe, R.
Determination of ⁵³Mn, which was produced in meteorite material by cosmic radiation, with the help of neutron activation.
J. Radioanal. Chem., **2**, 197-203 (March 1969).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT ZU KOLN UND ARBEITSGRUPPE INSTITUT FUR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE JULICH (BRD).
- 199 Adams, F., Dams, R.
Compilation of precisely determined gamma-transition energies of radionuclides produced by reactor irradiation.
J. Radioanal. Chem., **3**, No. 1-2, 8200 May, S., Pinte, G.
Quantitative determination of impurities in nuclear graphites. Systematic radioactivation analysis methods.
J. Radioanal. Chem., **3**, No. 5-6, 329-343 (1969).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, FRANCE.
- 8201 Brits, R. J. N., Peisach, M.
Isotopic determination of calcium-43 by proton activation.
J. Radioanal. Chem., **3**, No. 5-6, 345-351 (1969).
 (ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, C.P., SOUTH AFRICA.
- 8202 Kudo, K., Hishinuma, N.
Determination of manganese, copper, zinc, and cadmium in gallium arsenide by radioactivation analysis based on the quantitative isotope dilution principle.
J. Radioanal. Chem., **3**, No. 5-6, 369-376 (1969).
 (ENGLISH). ELECTRICAL COMMUNICATION LABORATORY, NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORPORATION, TOKAI, IBARAKI, JAPAN.
- 8203 Wiernik, M., Amiel, S.
Use of very short lived nuclides in nondestructive activation analysis with a fast shuttle rabbit.
J. Radioanal. Chem., **3**, No. 5-6, 393-403 (1969).
 (ENGLISH). NUCLEAR CHEMISTRY DEPARTMENT, SOREQ NUCLEAR RESEARCH CENTRE, YAVNE, ISRAEL.
- 8204 Doctor, Z. K., Haldar, B. C.
Substoichiometric determination of palladium by neutron activation analysis.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- J. Radioanal. Chem.*, **3**, No. 5–6, 405–411 (1969).
(ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.
- 8206 Revel, G.
Determination of carbon in some pure metals by irradiation with gamma photons.
J. Radioanal. Chem., **3**, No. 5–6, 421–429 (1969).
(FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY-SUR-SEINE, FRANCE.
- 8207 Op De Beeck, J.
A compilation of second order reaction interferences.
J. Radioanal. Chem., **3**, No. 5–6, 431–446 (1969).
(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 8208 Ohyoshi, E., Ohyoshi, A., Shinagawa, M.
Determination of isotopic ratio of uranium by neutron irradiation.
Radiochem. Radioanal. Letters, **3**, No. 1, 7–11 (1970).
(ENGLISH). DEPARTMENT OF NUCLEAR ENGINEERING, FACULTY OF ENGINEERING, OSAKA UNIVERSITY, OSAKA, JAPAN.
- 8209 Atalla, L. T., Lima, F. W.
An actual case of glass debris identification by NAA in an automobile accident.
Radiochem. Radioanal. Letters, **3**, No. 1, 13–22 (1970).
(ENGLISH). RADIOCHEMISTRY DIVISION, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 8211 Lima, F. W., Atalla, L. T.
Association of the methods of activation analysis and isotope dilution for the determination of copper in chemical reagents.
Radiochem. Radioanal. Letters, **3**, No. 1, 23–30 (1970).
(ENGLISH). RADIOCHEMISTRY
- DIVISION, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 8212 Adams, F., Hoste, J.
The determination of molybdenum in vanadium pentoxide by neutron activation analysis.
Radiochem. Radioanal. Letters, **3**, No. 1, 31–38 (1970).
(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 8214 Bhatki, K. S., Dingle, A. N.
Tracer indium determination in rain samples by neutron activation and radiochemical analysis.
Radiochem. Radioanal. Letters, **3**, No. 1, 71–79 (1970).
(ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 8235 Goles, G. G., Osawa, M., Randle, K., Beyer, R. L., Jerome, D. Y., Lindstrom, D. J., Martin, M. R., Mc Kay, S. M., Steinborn, T. L.
Instrumental neutron activation analyses of lunar specimens.
Science, **167**, 497–499 (30 January 1970).
(ENGLISH). CENTER FOR VOLCANOLOGY AND DEPARTMENTS OF CHEMISTRY AND GEOLOGY, UNIVERSITY OF OREGON, EUGENE, OREGON.
- 8236 Reed, G. W., Jovanovic, S., Fuchs, L. H.
Trace elements and accessory minerals in lunar samples.
Science, **167**, 501–503 (30 January 1970).
(ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 8237 Baedeker, P. A., Wasson, J. T.
Gallium, germanium, indium, and iridium in lunar samples.
Science, **167**, 503–505 (30 January 1970).
(ENGLISH). DEPARTMENT OF CHEMISTRY AND INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF.

- 8238 Morrison, G. H., Gerard, J. T., Kashuba, A. T., Gangadharam, E. V., Rothenberg, A. M., Potter, N. M., Miller, G. B.
Multielement analysis of lunar soil and rocks.
Science, **167**, 505–507 (30 January 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, CORNELL UNIVERSITY, ITHACA, NEW YORK.
- 8239 Turekian, K. K., Kharkar, D. P.
Neutron activation analysis of milligram quantities of lunar rocks and soils.
Science, **167**, 507–509 (30 January 1970).
 (ENGLISH)). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.
- 8240 Schmitt, R. A., Wakita, H., Rey, P.
Abundances of 30 elements in lunar rocks, soil, and core samples.
Science, **167**, 512–515 (30 January 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.
- 8241 Ehmann, W. D., Morgan, J. W.
Oxygen, silicon, and aluminum in lunar samples by 14 MeV neutron activation.
Science, **167**, 528–530 (30 January 1970).
 (ENGLISH). UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8242 Reynolds, L. M.
Uses of neutron activation and gamma ray spectrometry in problems of drug control.
 Thesis. Purdue University, 130p. (1966).
 (ENGLISH). PURDUE UNIVERSITY, LAFAYETTE, INDIANA.
- 8243 Cheng, F. C.
Derivative neutron activation and spectrophotometric analysis of P-bromobenzoyltrifluoroacetone chelates of Fe(II) and Fe(III).
 Thesis. University of Maryland, 120p. (1967).
 (ENGLISH). UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.
- 8244 De Gracia Cilindro, L.
Neutron activation analysis for iridium, palladium, and silver in platinum.
 Thesis. Iowa State University, 112p. (1967).
 (ENGLISH). IOWA STATE UNIVERSITY, IOWA CITY, IOWA.
- 8245 Lee, B. K.
Neutron activation analysis applied to arsenic determination.
 Thesis. Iowa State University, 146p. (1968).
 (ENGLISH). IOWA STATE UNIVERSITY, AMES, IOWA.
- 8246 Rhodes, B. A.
Isotopic equilibrium studies of iodine metabolism with emphasis on the circulating iodotyrosines.
 Thesis. Johns Hopkins University, 206p. (1968).
 (ENGLISH). JOHNS HOPKINS UNIVERSITY, BALTIMORE, MARYLAND.
- 8247 Mc Call, T. B.
Plasma diagnostics and electrode material release in high voltage vacuum breakdown.
 Thesis. University of Florida, 209p. (1968).
 (ENGLISH). UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA.
- 8248 Lundgren, F. A., Lutz, G. J.
Photon activation target assembly for the NBS linear electron accelerator.
Trans. Amer. Nucl. Soc., **10**, 89–90 (1967).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8250 Boddy, K., Al-Hashimi, S. A. M.,
Boyle, I. T.
An assessment of the probable errors in determining calcium in sections of bone by in vivo activation analysis.
SRRC-30/69, 8p. (December 1968).
(ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, AND ROYAL INFIRMARY, GLASGOW.
- 8251 Kenna, B. T., Harrison, P. E.
Characterization of materials by qualitative neutron activation analysis.
SC-RR-69-568, 12p. (November 1969).
(ENGLISH). SANDIA LABORATORIES, ALBUQUERQUE, NEW MEXICO.
- 8252 Gordus, A. A., Griffin, J. B.,
Wright, G. A.
Activation analysis identification of the geologic origins of prehistoric obsidian artifacts.
COO-912-16, 39p. (December 1968).
(ENGLISH). THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 8253 Karlicek, V., Kott, J., Sova, J.,
Bilkova, L., Topolcan, O.
Estimation of ten trace elements in biological material by the method of neutron activation analysis.
Cas. Lek. Cesk., **108**, 1017-1021 (August 8, 1969).
(CZECHOSLOVAKIAN) (RUSSIAN, ENGLISH AND FRENCH SUMMARIES). CHARLES UNIVERSITY, PLZEN, CZECHOSLOVAKIA
- 8254 Hashizume, T., Maruyama, T.,
Kumamoto, Y., Kato, Y., Kawamura, S.
Estimation of gamma-ray dose from neutron-induced radioactivity in Hiroshima and Nagasaki.
Health Physics, **17**, 761-771 (December 1969).
(ENGLISH). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, ANAGAWA, CHIBA-SHI, JAPAN.
- 8255 Atalla, L. T.
Nuclear data of several radioisotopes used in gamma spectroscopy and activation analysis.
IEA-INF-10, 45p. (August 1968).
(SPANISH). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 8256 Lamb, J. F.
Radioactivation by ³He bombardment. A practical analytical system.
UCRL-18981, 230p. (September 1969).
(ENGLISH). UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA.
- 8272 Hashimoto, K.
Device for transporting an activation-analysis sample material.
Japanese Patent 1967-19558. October 2, 1967.
(JAPANESE). TOKYO SHIBAURA ELECTRIC CO., LTD., JAPAN.
- 8273 Smith, G. D., Mitchell, F. R. G.
Improvements in or relating to apparatus for neutron activation analysis.
British Patent 1,094,702. December 13, 1967.
(ENGLISH). PLESSEY COMPANY, U.K. LIMITED, ESSEX.
- 8274 Abdullaev, A. A., Faizullaev, F.,
Kim, A. P.
Determination of dysprosium in natural waters by the activation analysis method.
Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 143-148, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8275 Lobanov, E. M., Zinovev, N. V.,
Nikanorov, G. S.
Activation well logging and interpretation of the curves of activity decrease.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 135-139, Izdatelstvo Fan Uzbekskoi SSR,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8276 Peterson, R. W., Soper, R. B.,
Mayburg, S., Kegel, G. H. R.
**Electrical measurements and
nuclear activation techniques for
radiation damage studies and
impurity analysis in silicon and
in laser materials. Final report.**
AD-664325, 90p. (November 9,
1967).
(ENGLISH). CONTROLS FOR
RADIATION, INC., CAMBRIDGE, MASS.
- 8277 Wolicki, E. A.
Nuclear applications program.
AD-679077, 44p. (August 1968).
(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 8278 Dolgirev, E. I., Potekhin, B. A.,
Belov, V. N., Leipunskaya, D. I.,
Drynkin, V. I., Glasson, V. V.,
Vyaznikov, E. P.
**Neutron activation analysis of
minerals.**
French Patent 1,519,936. 5 April
1968.
(FRENCH). RUSSIA.
- 8279 Kaman Aircraft Corporation
**Improvements relating to the
analysis of unknown material.**
British Patent 1,117,919. June
26, 1968.
(ENGLISH). KAMAN AIRCRAFT
CORPORATION, BLOOMFIELD,
CONNECTICUT.
- 8280 Laben Laboratori Elettronici
**Improvements relating to nuclear
spectrometry.**
British Patent 1,127,905.
September 18, 1968.
(ENGLISH). LABEN LABORATORI
ELETTRONICI E NUCLEARI S.R.L.,
MILAN, ITALY.
- 8281 Jones, R. E., Price, H. J.
**Improvements relating to the
analysis of samples of material.**
British Patent 1,114,351. May 22,
1968.
- (ENGLISH). KAMAN AIRCRAFT
CORPORATION, BLOOMFIELD,
CONNECTICUT.
- 8282 Bruno, G., Decharge, J., Perrin,
A., Surget, G.
**Method and apparatus for assaying
the lithium isotope of mass no.
6.**
British Patent 1,112,815. May 8,
1968.
(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, PARIS,
FRANCE.
- 8283 Starnes, P. E.
**Improvements in activation
analysis.**
British Patent 1,124,992. August
21, 1968.
(ENGLISH). HILGER AND WATTS
LIMITED, LONDON, ENGLAND.
- 8284 Metcalf, A.
**Improvements relating to the
determination of oxygen
distribution.**
British Patent 1,114,416. May 22,
1968.
(ENGLISH). PLESSEY-UK LIMITED,
ESSEX, ENGLAND.
- 8285 Comar, D., Le Poec, C.
Activation analysis.
British Patent 1,103,995.
February 21, 1968.
(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, PARIS,
FRANCE.
- 8286 Platzek, P.
Applications of radioisotopes.
Chem. Weekbl., **64**, No. 52, 10-13
(1968).
(DUTCH). NETHERLANDS.
- 8287 Crouthamel, C. E., Dudey, N. D.
**Radiochemical analysis and tracer
applications.**
*Kirk-Othmer Encycl. Chem.
Technol.*, **2nd Ed.**, **17**, 35-53
(1968).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8288 Hoffman, C. M.
A simplified method of collecting gunshot residue for examination by neutron activation analysis.
Identification News, 7–8 (October 1968).
 (ENGLISH). ALCOHOL AND TOBACCO TAX DIVISION, U.S. TREASURY DEPARTMENT, WASHINGTON, D.C. No. 5, 307–311 (1969).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON.
- 8289 Hoffman, C. M., Brunelle, R. L., Snow, K. B.
Forensic comparisons of soils by neutron activation and atomic absorption analysis.
J. Criminal Law, Criminology and Police Science, **60**, No. 3, 395–401 (1969).
 (ENGLISH). INTERNAL REVENUE SERVICE, U.S. TREASURY DEPARTMENT, WASHINGTON, D.C.
- 8290 Winchester, J. W., Robbins, J. A., Dams, R. F.
Sources and sinks of air pollution trace metals in Lake Michigan.
Trans. Amer. Nucl. Soc., **12**, 484 (November 1969).
 (ENGLISH). UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 8291 Snow, K. B., Hoffman, C. M., Brunelle, R. L., Pro, M. J.
Comparison of paints by neutron activation analysis.
International Criminal Police Review, No. 231, 221–225 (1969).
 (ENGLISH). ALCOHOL AND TOBACCO TAX DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 8292 Girardi, F., Camera, V., Sabbioni, E.
Cherenkov counting of aqueous solutions in activation analysis.
Radiochem. Radioanal. Letters, **2**, 195–202 (20 December 1969).
 (ENGLISH). EURATOM JOINT NUCLEAR RESEARCH CENTRE, ISpra ESTABLISHMENT, VARESE, ITALY.
- 8293 Filby, R. H., Yakeley, W. L.
Determination of selenium in eye-lenses by neutron activation analysis using ^{77m}Se .
Radiochem. Radioanal. Letters, **2**, 8294 Damburgs, N. A., Pelekis, L. L., Riekstinya, D. V.
Activation determination of terbium in highly pure yttrium oxide.
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 143–146, Pelekis, L.L. (Ed.), Izdatelstvo Zinatne, Riga, USSR (1969).
 (RUSSIAN). RUSSIA.
- 8295 Ainbinder, N. G., Veveris, O. E., Pelekis, Z. E., Pelekis, L. L., Taure, I. Y.
Neutron-activation method for determining platinum in a glass fiber.
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 155–165, Pelekis, L.L. (Ed.), Izdatelstvo Zinatne, Riga, USSR (1969).
 (RUSSIAN). RUSSIA.
- 8296 Draskovic, R. J., Kukoc, A., Draskovic, R. S.
Determination of microcomponents in polyethylene and teflon by the method of radioactivation analysis.
Isotopenpraxis, **5**, 256–258 (July 1969).
 (ENGLISH). THE BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES, VINCA, YUGOSLAVIA.
- 8297 Grinberg, L. L.
Neutron activation analysis for small amounts of tantalum.
Soviet Atomic Energy, **27**, No. 1, 734–735 (July 1969).
 (ENGLISH TRANSLATION). RUSSIA.
- 8298 Dubinskaya, N. A., Pelekis, L. L., Tsirkunova, I. E.
Instrumental activation analysis of manganese in biological materials.
Metody i Primenenie Neytronoaktivatsionnogo Analiza, 147–153, Pelekis, L.L. (Ed.), Izdatelstvo

ACTIVATION ANALYSIS – ACCESSION NUMBERS

Zinatne, Riga, USSR (1969).
(RUSSIAN). RUSSIA.

- 8299 Wyttenbach, A.
Rapid instrumental nuclear activation analysis of rocks, cements, and meteorites.
Helv. Chim. Acta, **52**, No. 8, 2458–2465 (1969).
(ENGLISH). EIDG. INSTITUT FÜR REAKTORFORSCHUNG WÜRENLINGEN, SWITZERLAND.
- 8300 Balsenc, L., Haerdi, W.
Neutron activation determination of traces of hafnium in aluminum.
Helv. Chim. Acta, **52**, No. 8, 2657–2662 (1969).
(FRENCH) (ENGLISH SUMMARY). INSTITUT DE CHIMIE ANALYTIQUE ET MINÉRALE DE L'UNIVERSITÉ, GENEVE.
- 8301 Sandquist, G. M., Matsuura, S. T.
Analyzing elements with neutron activation.
Eng. Mining J., **170**, No. 10, 87–89 (October 1969).
(ENGLISH). MECHANICAL ENGINEERING DEPARTMENT, UNIVERSITY OF UTAH AND KENNECOTT COPPER CORP., SALT LAKE CITY, UTAH.
- 8302 Morgan, J. W.
Uranium and thorium in tektites.
Earth Planetary Science Letters, **7**, No. 1, 53–63 (1969).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8303 Nozaki, T.
Analysis of semiconductor materials for nonmetallic impurities.
Oyo Butsuri, **38**, No. 2, 102–113 (1969).
(JAPANESE) (ENGLISH SUMMARY). THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YAMATO-MACHI, KITA-ADACHI-GUN, SAITAMA.
- 8304 Morgan, J. W., Ehmann, W. D.
Precise determination of oxygen and silicon in chondritic meteorites by 14 MeV neutron activation with a single transfer system.
Anal. Chim. Acta, **49**, 287–299 (1970).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8305 Ehmann, W. D.
Non-destructive techniques in activation analysis.
Fortschritt der Chemischen Forschung, **14**, No. 1, 49–91 (1970).
(ENGLISH). UNIVERSITY OF KENTUCKY, DEPARTMENT OF CHEMISTRY, LEXINGTON, KENTUCKY AND ARIZONA STATE UNIVERSITY, DEPARTMENT OF CHEMISTRY, TEMPE, ARIZONA.
- 8306 Nargolwalla, S. S., Crambes, M. R., Suddueth, J. E.
Photon self-absorption corrections for the minimization of systematic errors in 14 MeV neutron activation analysis.
Anal. Chim. Acta, **49**, 425–436 (1970).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8307 Alimarin, I. P., Yakovlev, Y. V., Dogadkin, N. N.
Trace activation analysis in pure materials.
Int. Symp. Reinstoffe Wiss. Tech., Tagungsber., 2nd 1965, **2**, 425–445 (1966).
(RUSSIAN AND GERMAN) (ENGLISH SUMMARY). VERNADSKI INSTITUT FÜR GEOCHEMIE UND ANALYTISCHE CHEMIE DER AKADEMIE DER WISSENSCHAFTEN DER UDSSR, MOSKAU.
- 8308 Niese, S.
Neutron activation analysis determination of phosphorus, sulfur, chlorine and selenium in arsenic and gallium arsenide.
Int. Symp. Reinstoffe Wiss. Tech.,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Tagungsber*, 2nd 1965, 2, 447-453 (1966).
(GERMAN) (RUSSIAN AND ENGLISH SUMMARIES). ZENTRALINSTITUT FÜR KERNFORSCHUNG, BEREICH RADIOCHEMIE, ROSSENDORF BEI DRESDEN.
- 8309 Minczewski, J., Dybczynski, R., Nowicka-Jankowska, T., Radwan, Z., Strzyzewska, B., Szyszko, H.
The determination of traces of rare earth elements in some rare earths.
Int. Symp. Reinstoffe Wiss. Tech., *Tagungsber*, 2nd 1965, 2, 473-482 (1966).
(ENGLISH) (GERMAN AND RUSSIAN SUMMARIES). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 8310 Doge, H. G., Ehrlich, G., Grosse-Ruyken, H., Grossmann, O., Neef, B.
Spectrophotometric and activation analysis determination of trace impurities in molybdenum and tungsten.
Int. Symp. Reinstoffe Wiss. Tech., *Tagungsber*, 2nd 1965, 2, 485-503 (1966).
(GERMAN) (RUSSIAN AND ENGLISH SUMMARIES). DEUTSCHE AKADEMIE DER WISSENSCHAFTEN ZU BERLIN, INSTITUT FÜR METALLPHYSIK UND REINSTMETALLE, DRESDEN AND TECHNISCHE UNIVERSITÄT DRESDEN, INSTITUT FÜR ANORGANISCHE UND ANORGANISCH-TECHNISCHE CHEMIE.
- 8311 Rodriguez, F. A., Gage, S. J., Gavenda, J. D.
Determination of magnetic impurities in high-purity copper by neutron activation analysis.
Mater. Technol.—Interamer. Approach, *Interamer. Conf.*, 505-509 (1968).
(ENGLISH). COMISION NACIONAL DE ENERGIA NUCLEAR DE MEXICO, AND NUCLEAR ENGINEERING PROGRAM, MECHANICAL ENGINEERING DEPARTMENT, THE UNIVERSITY OF TEXAS, AUSTIN, TEXAS.
- 8312 Stutheit, J. S., Rampey, W. P.
In-line deuterium oxide analysis.
Nucl. Instruments Methods, 75, No. 1, 43-44 (1969).
(ENGLISH). SAVANNAH RIVER PLANT, E.I. DU PONT DE NEMOURS AND CO., AIKEN, S.C.
- 8313 Berglund, N., Brune, D., Schuberg, B.
A nitrogen gas cooling device for operation in neutron activation analysis.
Nucl. Instruments Methods, 75, No. 1, 103-105 (1969).
(ENGLISH). AB ATOMENERGI, STOCKHOLM, SWEDEN.
- 8314 Perdijon, J.
Process to manufacture dose standards of oxygen for activation with neutrons of 14 MeV.
Nucl. Instruments Methods, 75, 331-332 (1969).
(FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES NUCLEAIRES, GRENOBLE, FRANCE.
- 8315 Tyou, P.
Oxygen determination in molten steel.
Rev. Met. (Paris), 66, No. 9, 621-625 (1969).
(FRENCH). CENTRE NATIONAL DE RECHERCHES METALLURGIQUES, SERVICE DES RECHERCHES ANALYTIQUES, LIEGE.
- 8316 Nikolov, K., Todorovski, D.
On the non-destructive neutron activation method for the determination of lithium, based on a secondary nuclear reaction with tritons.
Isotopenpraxis, 5, No. 11, 408-413 (1969).
(ENGLISH). UNIVERSITY OF SOFIA, FACULTY OF CHEMISTRY.
- 8317 Green, T. H., Brunfelt, A. O., Heier, K. S.
Rare earth element distribution in anorthosites and associated high grade metamorphic rocks, Lofoten-Vesteraalen, Norway.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Earth Planet. Sci. Letters*, **7**,
93–98 (November 1969).
(ENGLISH). MINERALOGISK-GEOLOGISK
MUSEUM, OSLO, NORWAY.
- 8318 Thompson, C. J.
**Activation analysis with an
on-line PDP-9 computer.**
Nucl. Appl., **6**, 559–566 (June
1969).
(ENGLISH). ATOMIC ENERGY OF
CANADA LIMITED, COMMERCIAL
PRODUCTS, OTTAWA, ONTARIO,
CANADA.
- 8319 Mattson, J. S., Crittenden, J. C.,
Mark, H. B.
**Determination of ^{16}O in
microcrystalline carbon by
indirect neutron activation
analysis.**
Nucl. Appl. Technol., **7**, No. 4,
383–384 (1969).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, THE UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.
- 8320 George, K. D., Kramer, H. H.
**Deuterium analysis by photoneutron
detection.**
Nucl. Appl. Technol., **7**, No. 4,
385–388 (1969).
(ENGLISH). UNION CARBIDE
CORPORATION, STERLING FOREST
RESEARCH CENTER, TUXEDO, N.Y.
- 8321 Maslov, I. A., Lucknitsky, V. A.,
Karnaukhova, N. M., Karaganova,
G. I.
**Applications of neutron activation
analysis to the measurement of the
evaporation rate of solids in the
range of 10^{-7} to 10^{-9} g/(cm²-
sec).**
Nucl. Appl. Technol., **7**, 389–392
(October 1969).
(ENGLISH). ACTIVATION ANALYSIS
LABORATORY, IOFFE-PHYSICO-TECHNIC
AL INSTITUTE, ACADEMY OF SCIENCES
OF THE USSR, LENINGRAD, USSR.
- 8322 Downs, W. E., Davis, M. W.
**Characteristics of an on-stream
analysis system using a
multikilocurie ^{124}Sb -Be neutron
source.**
Nucl. Appl. Technol., **7**, No. 5,
466–471 (1969).
(ENGLISH). ATOMIC ENERGY OF
CANADA LTD., OTTAWA, CANADA.
- 8323 Pillay, K. K. S., Thomas, C. C.,
Kaminski, J. W.
**Neutron activation analysis of the
selenium content of fossil fuels.**
Nucl. Appl. Technol., **7**, 478–483
(November 1969).
(ENGLISH). WESTERN NEW YORK
NUCLEAR RESEARCH CENTER, INC.,
BUFFALO, N.Y.
- 8324 Pillay, K. K. S., Thomas, C. C.,
Hart, D. M., Didising, D.,
Thomas, R. C.
**Applications of rare earth tracers
to gunpowder residues.**
Nucl. Appl. Technol., **8**, 73–78
(January 1970).
(ENGLISH). WESTERN NEW YORK
NUCLEAR RESEARCH CENTER, INC.,
BUFFALO, N.Y., MOORE BUSINESS
FORMS INC., STATE UNIVERSITY OF
NEW YORK AT BUFFALO AND VA
HOSPITAL, BUFFALO, N.Y.
- 8325 Jones, D. W., Malmberg, P. R.,
May, T. H., Strain, C. V.
**Nondestructive assay of
fissionable materials.**
Nucl. Appl. Technol., **8**, 79–83
(January 1970).
(ENGLISH). U.S. NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 8326 Twitty, B. L., Boback, M. W.
**Rapid determination of thorium in
urine by thermal neutron
activation analysis.**
Anal. Chim. Acta, **49**, 19–24
(January 1970).
(ENGLISH). NATIONAL LEAD COMPANY
OF OHIO, CINCINNATI, OHIO.
- 8327 Linstedt, K. D., Kruger, P.
**Determination of vanadium in
natural waters by neutron
activation analysis.**
Anal. Chem., **42**, No. 1, 113–115
(1970).
(ENGLISH). CIVIL ENGINEERING

ACTIVATION ANALYSIS—BIBLIOGRAPHY

DEPARTMENT, STANFORD UNIVERSITY,
STANFORD, CALIF.

- 8328 Freeman, D. H., Currie, L. A.,
Kuehner, E. C., Dixon, H. D.,
Paulson, R. A.

**Development and characterization
of ion-exchange bead
microstandards.**

Anal. Chem., **42**, No. 2, 203-209
(1970).

(ENGLISH). INSTITUTE FOR
MATERIALS RESEARCH, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

- 8329 Lamb, J. F., Lee, D. M.,
Markowitz, S. S.

**Preparation of isotopic oxygen
targets for charged particle
activation analysis.**

Anal. Chem., **42**, No. 2, 209-212
(1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY AND LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, LIVERMORE, CALIF.

- 8330 Lamb, J. F., Lee, D. M.,
Markowitz, S. S.

**Surface profile analysis by
helium-3 activation, oxygen in
silicon.**

Anal. Chem., **42**, No. 2, 212-215
(1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY AND LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIF.

- 8331 Zoller, W. H., Gordon, G. E.

**Instrumental neutron activation
analysis of atmospheric
pollutants utilizing Ge(Li)
gamma-ray detectors.**

Anal. Chem., **42**, No. 2, 257-265
(1970).

(ENGLISH). A.A. NOYES NUCLEAR
CHEMISTRY CENTER, MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASS.

- 8332 Lieberman, K. W., Kramer, H. H.

**Cadmium determination in
biological tissue by neutron**

activation analysis.

Anal. Chem., **42**, No. 2, 266-267
(1970).

(ENGLISH). UNION CARBIDE
CORPORATION, STERLING FOREST
RESEARCH CENTER, TUXEDO, N.Y.

- 8333 Mantel, M., Propai, S. T., Amiel,
S.

**Neutron activation analysis of
thorium in rocks and ores by
multiple gamma-ray peak ratio
determination.**

Anal. Chem., **42**, No. 2, 267-271
(1970).

(ENGLISH). NUCLEAR CHEMISTRY
DEPARTMENT, SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.

- 8338 Kist, A. A., Lobanov, E. M.,
Sviridova, A. I.

**Neutron activation analysis of
biological substances by using
short-lived isotopes.**

*Aktivatsionnyii Analiz
Biologicheskikh Obektov*, 7-20,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

- 8339 Kist, S. M., Kist, A. A., Lobanov,
E. M.

**Determination of alkali metals in
biological substances by
activation analysis.**

*Aktivatsionnyii Analiz
Biologicheskikh Obektov*, 30-35,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

- 8340 Kist, A. A., Sviridova, A. I.,
Lobanov, E. M.

**Determination of copper in
biological substances by
activation analysis.**

*Aktivatsionnyii Analiz
Biologicheskikh Obektov*, 35-39,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

- 8341 Sviridova, A. I., Kist, A. A.,
Lobanov, E. M., Yankovskii, A. V.
- Internal electrolysis during the**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**determination of bismuth by
activation analysis.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 39–42,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8342 Sviridova, A. I., Kist, A. A.,
Tushkova, R. Y., Lobanov, E. M.

**Electrochemical separation of
groups of elements in activation
analysis of biological samples.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 42–47,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8343 Kryzhenkova, N. A., Lobanov, E.
M., Bekmukhamedova, Z. U., Kist,
A. A.

**Determination of iodine in the
thyroid by activation analysis.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 47–52,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8344 Lobanov, E. M., Malikov, R. M.
**Determination of trace amounts of
manganese in human blood by
activation analysis.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 53–56,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8345 Orestova, I. I., Lobanov, E. M.,
Kist, A. A.

**Determination of several major
elements in plants by neutron
activation.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 56–61,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8346 Khatamov, S., Lobanov, E. M.,
Kist, A. A.

**Combustion of plant specimens
during analysis for gold,**

antimony, and arsenic.

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 61–64.
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8347 Khatamov, S., Lobanov, E. M.,
Kist, A. A.

**Determination of gold, arsenic,
antimony, and samarium in plant
ash and in soils by activation
analysis.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 64–69,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8348 Orestova, I. I., Lobanov, E. M.,
Kist, A. A.

**Radioactivation determination of
available manganese forms in
soils.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 69–73,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8349 Kist, A. A., Kryzhenkova, N. A.,
Sviridova, A. I., Lobanov, E. M.,
Solodovnikova, I. D.

**Daily stability of the elemental
composition of human blood. II.
Zinc, iron, manganese.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 78–83,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

8350 Prigozhina, S. M., Kist, A. A.,
Lobanov, E. M.

**Level of zinc in blood, organs,
and urine during the development
of experimental hepatitis and
cirrhosis. II.**

Aktivatsionnyii Analiz

Biologicheskikh Obektov, 92–98,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).

(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8351 Kiv, I. I., Zhuk, L. I., Nikolaev, A. I., Akhmadieva, A. K., Kist, A. A., Lobanov, E. M.
Change in the levels of sodium, chloride, phosphorus, and potassium in organs of experimental animals during radiation sickness.
Aktivatsionnyii Analiz Biologicheskikh Obektov, 107–111, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8352 Kist, A. A., Lobanov, E. M.
Activation analysis in biology and medicine.
Aktivatsionnyii Analiz Biologicheskikh Obektov, 130–159, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8353 Kist, A. A., Lobanov, E. M., Prigozhina, S. M.
Determination of zinc in biological substances by neutron activation without decomposition of the specimen.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 5–9, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8354 Kist, A. A., Lobanov, E. M., Sviridova, A. I.
Activation determination of rubidium in biological substances.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 10–16, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8355 Kist, A. A., Lobanov, E. M.
Activation determination of indium and gallium in biological substances.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 17–21, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8356 Kist, A. A., Lobanov, E. M., Sviridova, A. I.
Determination of silver in biological material by neutron activation method with use of radiochemical separation.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 22–27, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8357 Kist, A. A., Lobanov, E. M.
Determination of gold, arsenic, antimony, and zinc in biological materials by neutron activation method.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 28–34, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8358 Artyukhin, P. I., Gilbert, E. N., Kist, A. A., Lobanov, E. M., Pronin, V. A.
Radioactivation determination of gold, antimony, and gallium in biological substances with the extraction separation of the whole group.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 40–42, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8359 Kist, A. A., Lobanov, E. M., Kryzhnenkova, N. I.
Simplified activation determination of chloride in biological materials.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 43–46, Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).
 (RUSSIAN). RUSSIA.
- 8360 Lobanov, E. M., Miranskii, I. A., Pozychanyuk, V. F., Saifutdinova, D. G., Khaidarov, A. A.
Interpretation of gamma-spectra during analysis of multicomponent mixtures.
Aktivatsionnyii Analiz Gornykh Porod i Drugikh Obektov, 56–65,

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8361 Aripov, G., Khaidarov, A. A.,
Arushanyants, B. M.
**Use of coincidence spectrometer
for determination of copper in
rock samples.**
*Aktivatsionnyii Analiz Gornyykh
Porod i Drugikh Obektov*, 78–83,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8362 Lobanov, E. M., Miranskii, I. A.,
Pozychanyuk, V. F., Saifutdinova,
D. G., Khaidarov, A. A.
**Use of an element resonance
activation method for analysis of
ore, rock, and concentrate
samples.**
*Aktivatsionnyii Analiz Gornyykh
Porod i Drugikh Obektov*, 95–101,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8363 Lobanov, E. M., Akbarov, U.
**Use of a magnetic beta–separator
for activation analysis.**
*Aktivatsionnyii Analiz Gornyykh
Porod i Drugikh Obektov*, 140–146,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8364 Lobanov, E. M., Khatamov, S.,
Khamidova, R.
**Determination of gold in
biological and geological objects
by neutron activation without a
chemical decomposition.**
*Aktivatsionnyii Analiz Gornyykh
Porod i Drugikh Obektov*, 147–157,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8365 Lobanov, E. M., Khatamov, S.,
Kist, A. A.
**Radiochemical and preliminary
extraction of gold in neutron
activation analysis from samples
of plants and geological**
- materials.**
*Aktivatsionnyii Analiz Gornyykh
Porod i Drugikh Obektov*, 158–166,
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8366 Lobanov, E. M., Khusnutdinov, R.
I.
**Sensitivity of the activation
method of analysis.**
*Aktivatsionnyii Analiz Elementiogo
Sostava Geologicheskikh Obektov*,
5–13, Lobanov, E.M. (Ed.),
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8367 Lobanov, E. M., Chanyshchev, A. I.,
Chanyshcheva, T. I.
**Cyclic method of irradiation and
measurement of activity during
analysis with short–lived
isotopes.**
*Aktivatsionnyii Analiz Elementiogo
Sostava Geologicheskikh Obektov*,
14–21, Lobanov, E.M. (Ed.),
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8368 Lobanov, E. M., Zinovev, N. V.
**Determination of statistical
properties of activity decay
curves required for deciphering
from a given set of data.**
*Aktivatsionnyii Analiz Elementiogo
Sostava Geologicheskikh Obektov*,
22–27, Lobanov, E.M. (Ed.),
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8369 Lobanov, E. M., Zinovev, N. V.
**Correlationless interpretation of
activation analysis data.**
*Aktivatsionnyii Analiz Elementiogo
Sostava Geologicheskikh Obektov*,
28–34, Lobanov, E.M. (Ed.),
Izdatelstvo Fan Uzbekskoi SSR,
Tashkent (1967).
(RUSSIAN). RUSSIA.
- 8370 Lobanov, E. M., Zinovev, N. V.
Approximation in activation

ACTIVATION ANALYSIS – BIBLIOGRAPHY

determination of the amount of an element in samples.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 35–37, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8371 Lobanov, E. M., Isabaev, E. A., Yankovskii, A. V., Abildaev, A. K., Vasilev, V. S.

Determination of fissionable elements in rocks and ores by counting fission fragments.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 44–52, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8372 Lobanov, E. M., Yankovskii, A. V., Sultankhodzhaeva, M.

Neutron activation determination of uranium in rock samples.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 53–58, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8373 Lobanov, E. M., Yankovskii, A. V., Bastamov, V. N., Khusainova, O.
Neutron-activation autoradiography of surface-polished rock specimens.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 59–63, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8374 Lobanov, E. M., Mingaliev, G. G.
Rapid neutron activation determination of silicon, aluminum, barium, and manganese in synthetic micas.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 77–83, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR,

Tashkent (1967).

(RUSSIAN). RUSSIA.

8375 Lobanov, E. M., Mingaliev, G. G.
Determination of aluminum, vanadium, manganese, zinc, and copper in ashes of crude petroleum by activation analysis.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 93–98, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8376 Lobanov, E. M., Babaev, A., Nurmatov, D., Starchik, L. P.
Use of cobalt-60 to excite the metastable levels of indium, cadmium, and strontium.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 99–101, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8377 Ganiev, A. G., Silvanovich, Y. A., Kholmatova, T.

Determination of arsenic, selenium, and noble metals in copper-nickel concentrates by a radioactivation method.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 121–126, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8378 Ganiev, A. G., Khudaibergenov, U., Rakhimov, K., Moskovtseva, G. A.
Determination of noble metals in some minerals by radioactivation.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 127–133, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8379 Ganiev, A. G., Nishanov, P. K., Karimkulov, D. V.
Determination of tungsten in rocks and minerals by neutron

ACTIVATION ANALYSIS—ACCESSION NUMBERS

activation.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 134–136, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8380 Abdullaev, A. A., Grakhov, V. A., Gureev, E. S., Zhuk, L. I., Zakhidov, A. S.

Determination of tungsten in ground waters by neutron activation.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 158–162, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8381 Abdullaev, A. A., Grakhov, V. A., Gureev, E. S., Zhuk, L. I., Zakhidov, A. S.

Rapid determination of tungsten in grounds waters.

Aktivatsionnyii Analiz Elementiogo Sostava Geologicheskikh Obektov, 163–166, Lobanov, E.M. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1967).

(RUSSIAN). RUSSIA.

8382 Ganiev, A. G., Nazmitdinov, M. K., Sabirov, S. S.

Determination of some trace impurities in high-purity rhodium.

Aktivatsionnyii Analiz Chistykh Materialov, 50–54, Zverev, B.P. (Ed.), Izdatelstvo Fan Uzbekskoi SSR, Tashkent (1968).

(RUSSIAN). RUSSIA.

8383 Duval, C.

Microanalysis used for meteorites.

Chim. Anal. (Paris), **48**, 537–548 (October 1966).

(FRENCH) (ENGLISH SUMMARY).

DIRECTEUR SCIENTIFIQUE AU C.N.R.S.

8384 Knypl, E. T.

Efficiency of refining of acetic acid from inorganic impurities by

normal freezing method by radioisotopic technique.

Isotopenpraxis, **3**, 190–192 (May 1967).

(ENGLISH). RESEARCH AND DEVELOPMENT DEPARTMENT OF CHEMICAL WORKS OSWIECIM, OSWIECIM, POLAND.

8385 Engelmann, C.

Activation analysis with charged particles and gamma photons.

ORNL-TR-2265, 7p.

(ENGLISH TRANSLATION).

DEPARTMENT OF METALLURGY, C.E.N. SACLAY.

8386 Zelenay, T.

Determination of fission product Nd-148 for burn-up.

Radiochem. Radioanal. Letters, **2**, 33–40 (September 26, 1969).

(ENGLISH). DEPARTMENT OF

RADIOCHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSAW-ZERAN, POLAND.

8387 Hislop, J. S., Wood, D. A.

The destructive and nondestructive analysis of vanadium for carbon by gamma activation.

AERE-R-6165, 18p. (August 1969).

(ENGLISH). ANALYTICAL SCIENCES DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKSHIRE, ENGLAND.

8388 Iwamoto, N., Adachi, A.

Application of activation analysis to inclusions containing chromium.

Technol. Rep. Osaka Univ., **17**, 329–333 (October 1967).

(ENGLISH). DEPARTMENT OF

METALLURGY, OSAKA UNIVERSITY, OSAKA, JAPAN.

8389 Energie Nucleaire

Activation analysis in France today.

Energ. Nucl. (Paris), **10**, 29–34 (January–February 1968).

(FRENCH). COMMISSION

D'ETABLISSEMENT DES METHODES D'ANALYSE DU COMMISSARIAT A L'ENERGIE ATOMIQUE, FRANCE.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8390 Brar, S. S., Nelson, D. M.,
 Kanabrocki, E. L., Moore, C. E.,
 Burnham, C. D., Hattori, D. M.
**Thermal neutron activation
 analysis of particulate matter in
 surface air of the Chicago
 Metropolitan Area. One-minute
 irradiations.**
Environ. Sci. Technol., **4**, 50–54
 (January 1970).
 (ENGLISH). DIVISIONS OF BIOLOGY
 AND RADIOLOGICAL PHYSICS, ARGONNE
 NATIONAL LABORATORY, ARGONNE,
 ILLINOIS, LOYOLA UNIVERSITY,
 CHICAGO, ILLINOIS, AND DEPARTMENT
 OF AIR POLLUTION CONTROL, CITY OF
 CHICAGO, CHICAGO, ILLINOIS.
- 8391 Csikai, J., Buczko, M., Body, Z.,
 Demeny, A.
**Nuclear data for neutron
 activation analysis.**
At. Energy Rev., **7**, No. 4, 93–128
 (1969).
 (ENGLISH). INSTITUTE OF
 EXPERIMENTAL PHYSICS, KOSSUTH
 UNIVERSITY, DEBRECEN, HUNGARY.
- 8392 Lunde, G.
**Analysis of surface and bulk
 impurities in silicon
 single-crystal slices by neutron
 activation.**
Solid State Technol., **13**, No. 1,
 61–64 (1970).
 (ENGLISH). CENTRAL INSTITUTE FOR
 INDUSTRIAL RESEARCH, OSLO,
 NORWAY.
- 8393 Bratter, P., Rosick, U., Lutze, W.
**Determination of chlorine in
 selenium by instrumental neutron
 activation analysis.**
Solid State Commun., **8**, No. 2,
 129–132 (1970).
 (ENGLISH). NUCLEAR CHEMISTRY
 DIVISION, HAHN-MEITNER INSTITUTE,
 BERLIN.
- 8394 Lutz, G. J.
**Forensic science. A bibliography
 of activation analysis papers.**
 NBS Tech. Note 519, 47p. (March
 1970).
 (ENGLISH). ANALYTICAL CHEMISTRY
 DIVISION, NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 8395 Lutz, G. J.
**Determination of the light
 elements in metals. A
 bibliography of activation
 analysis papers.**
 NBS Tech. Note 524, 78p. (May
 1970).
 (ENGLISH). ANALYTICAL CHEMISTRY
 DIVISION, NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 8402 Azuma, T., Sato, Y., Tsurugi, J.,
 Imamura, K.
**(gamma, n) activation analysis of
 Zn, Ni, and Cu metals contained
 in rubber vulcanizates.**
*Annu. Rep. Radiat. Center Osaka
 Prefect.*, **7**, 21–26 (1966).
 (ENGLISH) (JAPANESE SUMMARY).
 JAPAN.
- 8403 Asai, T., Azuma, T.
**Studies on estimation of elements
 by gamma irradiation.**
*Annu. Rep. Radiat. Center Osaka
 Prefect.*, **6**, 115 (March 1966).
 (ENGLISH) (JAPANESE SUMMARY).
 RADIATION CENTER, OSAKA
 PREFECTURE.
- 8405 Kobayashi, M.
**Study on metallurgical application
 of radioactivation method.**
Rep. Inst. Ind. Sci., Univ. Tokyo,
19, No. 1, 1–85 (1968).
 (ENGLISH). INSTITUTE OF
 INDUSTRIAL SCIENCE, UNIVERSITY OF
 TOKYO.
- 8406 Schulze, W.
**Activation analysis. Some basic
 principles.**
Advances in Activation Analysis,
 Vol. 1, 1–36, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). INST. F. ANORGAN.
 CHEMIE, FREIE UNIVERSITÄT,
 BERLIN, GERMANY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 8407 Guinn, V. P.
Reactors as neutron sources.
Advances in Activation Analysis,
 Vol. 1, 37–80, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). GULF GENERAL ATOMIC
 INC., SAN DIEGO, CALIFORNIA.
- 8408 Wainerdi, R. E.
**Automation and electronic data
 handling.**
Advances in Activation Analysis,
 Vol. 1, 81–100, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). DEPARTMENT OF
 CHEMICAL ENGINEERING, TEXAS A AND
 M UNIVERSITY, COLLEGE STATION,
 TEXAS.
- 8409 Bowen, H. J. M.
**Standard materials and
 intercomparisons.**
Advances in Activation Analysis,
 Vol. 1, 101–113, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). CHEMISTRY DEPARTMENT,
 THE UNIVERSITY, READING, BERKS.
- 8410 Girardi, F., Guzzi, G.
**Gamma-ray spectroscopy by means of
 germanium lithium-drifted
 detectors in activation analysis.**
Advances in Activation Analysis,
 Vol. 1, 137–161, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). EURATOM, ISPRA,
 ITALY.
- 8411 Comar, D.
**Clinical application of activation
 analysis.**
Advances in Activation Analysis,
 Vol. 1, 163–206, Lenihan, J.M.A.,
 and Thomson, S.J. (Eds.),
 Academic Press, New York (1969).
 (ENGLISH). COMMISSARIAT A
 L'ENERGIE ATOMIQUE, DEPARTEMENT
 DE BIOLOGIE, SERVICE HOSPITALIER
 FREDERIC JOLIOT, ORSAY, FRANCE.
- 8412 Zadvornyi, A. S., Shakun, N. A.,
 Klyucharev, A. P., Falkevich, E.
 S., Bletskan, N. I.
**Determination of boron in
 semiconducting silicon.**
Industrial Laboratory, 35, No. 8,
 1149–1150 (August 1969).
 (ENGLISH TRANSLATION).
 PHYSICOTECHNICAL INSTITUTE,
 ACADEMY OF SCIENCES OF THE
 UKRAINIAN SSR.
- 8413 Reed, G. W., Jovanovic, S.
**Hg–196 and Hg–202 isotopic ratios
 in chondrites.**
J. Inorg. Nucl. Chem., 31,
 3783–3788 (December 1969).
 (ENGLISH). CHEMISTRY DIVISION,
 ARGONNE NATIONAL LABORATORY,
 ARGONNE, ILLINOIS.
- 8414 Lutz, G. J., Boreni, R. J.,
 Maddock, R. S., Meinke, W. W.
**Activation analysis. A
 bibliography.**
 NBS Tech. Note 467, Part 1,
 Addendum 1, 511–678, Part 2,
 Revision 1, 264p. (December
 1969).
 (ENGLISH). ANALYTICAL CHEMISTRY
 DIVISION, NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 8415 Rachmann, J., Biermann, R.
**Determination and diffusion of
 oxygen in GaAs.**
Solid State Commun., 7, 1771–1775
 (December 1969).
 (GERMAN) (ENGLISH SUMMARY).
 FORSCHUNGLABORATORIUM DER
 SIEMENS AG MUNCHEN/ERLANGEN,
 DEUTSCHLAND.
- 8416 Holt, J. B., Almassy, M. Y.
**Nitrogen diffusion in uranium
 nitride as measured by alpha
 particle activation of ¹⁵N.**
J. Amer. Ceram. Soc., 52, 631–635
 (21 December 1969).
 (ENGLISH). LAWRENCE RADIATION
 LABORATORY, UNIVERSITY OF
 CALIFORNIA, LIVERMORE, CALIF.
- 8417 Sterlinski, S.
**Features of the modified Covell
 method for computation of total
 absorption peak areas in complex**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

gamma-ray spectra.

Anal. Chem., **42**, 151–155 (February 1970).

(ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, DEPARTMENT OF ANALYTICAL CHEMISTRY, WARSAW, POLAND.

in Latin American Development, 194–199, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).
(ENGLISH) (SPANISH SUMMARY).
GEORGIA INSTITUTE OF TECHNOLOGY, NUCLEAR RESEARCH CENTER, ATLANTA, GEORGIA.

8418 Ricci, E., Handley, T. H.

Activation analysis with californium-252.

Anal. Chem., **42**, No. 3, 378–382 (1970).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

8422 Lambert, J. P. F., Simpson, R. E.

Rapid neutron activation analysis in food and drug applications.

Radiation and Isotope Technology in Latin American Development, 200–212, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).

(ENGLISH) (SPANISH SUMMARY).
DIVISION OF FOOD CHEMISTRY AND TECHNOLOGY, BUREAU OF SCIENCE FOOD AND DRUG ADMINISTRATION, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, WASHINGTON, D.C.

8419 Azuma, T.

Activation analysis by 16 MeV electron LINAC.

Radiation and Isotope Technology in Latin American Development, 166–182, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).

(ENGLISH) (SPANISH SUMMARY).
RADIATION CENTER OF OSAKA PREFECTURE, SHINKE-CHO, SAKAI, OSAKA, JAPAN.

8423 Atalla, L. T., Lima, F. W.

Determination of impurities in pure reagents by association of isotopic dilution and activation analysis. Application to the analysis of copper in various reagents.

Radiation and Isotope Technology in Latin American Development, 422–426, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).

(ENGLISH) (SPANISH SUMMARY).
RADIOCHEMISTRY DIVISION, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRASIL.

8420 Nargolwalla, S. S., La Fleur, P. D.

Characterization of standard reference materials for industry and research by neutron generator activation analysis.

Radiation and Isotope Technology in Latin American Development, 183–186, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).

(ENGLISH) (SPANISH SUMMARY).
ANALYTICAL CHEMISTRY DIVISION, INSTITUTE FOR MATERIALS RESEARCH, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

8424 Lima, F. W., Atalla, L. T.

Association of the methods of activation analysis and isotopic dilution. Determination of copper in high purity gold samples.

Radiation and Isotope Technology in Latin American Development, 432–439, Proceedings of the American Nuclear Society Topical Meeting, San Juan, Puerto Rico, May 4–6, 1969 (PRNC-135) (1969).

(ENGLISH) (SPANISH SUMMARY).

8421 Galli, A. N., Smith, D., Mc Lain, M. E.

Instrumental neutron activation analysis for aluminum in phosphate minerals.

Radiation and Isotope Technology

ACTIVATION ANALYSIS—ACCESSION NUMBERS

RADIOCHEMISTRY DIVISION,
INSTITUTO DE ENERGIA ATOMICA, SAO
PAULO, BRASIL.

- 8801 Lowenhaupt, E. H.
An investigation of the oxygen and carbon contamination of some lanthanide and actinide metals.
UCRL-17071, 58p. (May 1965).
(ENGLISH). UNIVERSITY OF CALIFORNIA, LAWRENCE RADIATION LABORATORY, BERKELEY, CALIF.
- 8802 Hoshino, O., Tanzawa, K., Terao, T., Ukita, T., Ohuchi, A.
Quantitative determination of mercury in hair by activation analysis.
Eisei Kagaku, **12**, 94-99 (April 1966).
(JAPANESE) (ENGLISH SUMMARY). FACULTY OF PHARMACEUTICAL SCIENCES, UNIVERSITY OF TOKYO AND TOKYO ATOMIC INDUSTRIAL RESEARCH LABORATORY, LTD.
- 8803 Lima, F. W.
Activation analysis and control of materials of high purity.
IEA-INF-9, 13p. (September 1967).
(SPANISH). INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL.
- 8804 Smith, H.
The distribution of antimony, arsenic, copper, and zinc in human tissue.
J. Forensic Science Society, **7**, 97-102 (1967).
(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY OF GLASGOW, SCOTLAND.
- 8805 Condit, R. H., Holt, J. B.
The determination of oxygen diffusion in ceramics by means of nuclear activation.
UCRL-70580, 12p. (October 2, 1967).
(ENGLISH). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE.
- 8806 Erwall, L. G.
Use of radioisotope techniques in Sweden.
Isotop. Radiat. Technol., **4**, 255-258 (Spring 1967).
(ENGLISH). ISOTOPE TECHNIQUES LABORATORY, STOCKHOLM, SWEDEN.
- 8807 Carnegie Institute of Technology
Nuclear chemistry and geochemistry research. Carnegie Institute of Technology, 1966-1967. Progress report.
NYO-844-71, 74p. (June 30, 1967).
(ENGLISH). CARNEGIE INSTITUTE OF TECHNOLOGY, PITTSBURGH, PA.
- 8808 Larsen, R. P., Meyer, R. J.
Analytical research and development.
ANL-7325, 203-203.
(ENGLISH). ARGONNE NATIONAL LABORATORY, ILLINOIS.
- 8809 Perkons, A. K., Jervis, R. E.
Individualization by neutron activation analysis.
Law Enforcement Science and Technology, Vol. I, 257-266,
Yefsky, S.A. (Ed.), Thompson Book Co., Academic Press, London (1967).
(ENGLISH). THE CENTRE OF FORENSIC SCIENCES AND UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 8810 Blake, K. R., Parker, C. V., England, L. D., Morgan, I. L.
Elemental trace analysis by charged particle and neutron activation.
Anal. Instrum., **1966**, **4**, 141-157 (1967).
(ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.
- 8811 Darrall, K. G., Oldham, G.
Neutron flux variation on the axis of a 14 MeV neutron generator.
Nuclear Energy, **104-105**, 118 (July-August 1967).
(ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 8812 Shornikov, S. I.
Use of a gamma activation method for joint determination of zirconium and titanium contents in complex titanium–zirconium ores.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 1, 274–279 (1968).
 (RUSSIAN). RUSSIA.
- 8813 Berzin, A. K., Vitozhents, G. C., Sulin, V. V., Shornikov, S. I.
Gamma–activation method for determination of the zirconium content in zirconium ore and concentrates.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 1, 266–274 (1968).
 (RUSSIAN). RUSSIA.
- 8814 Kurenko, E. Y., Gerasimov, V. I., Chernyakov, V. V., Nikitin, V. N., Biryukov, V. F.
Activation analysis of naturally occurring copper ores.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 3, 264–267 (1968).
 (RUSSIAN). RUSSIA.
- 8815 Lobanov, E. M., Yankovskii, A. V.
Neutron activation determination of bismuth in rock and ore samples.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 3, 235–242 (1968).
 (RUSSIAN). RUSSIA.
- 8816 Lobanov, E. M., Miranskii, I. A., Pozychanyuk, V. F., Saifutdinova, D. G., Khaidarov, A. A.
Use of activation analysis to determine gold in rock samples.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 3, 226–235 (1968).
 (RUSSIAN). RUSSIA.
- 8817 Savosin, S. I., Berzin, A. K., Leipunskaya, D. I., Sulin, V. V., Shimelevich, Y. S.
Use of standard activation analysis apparatus during a study of rocks and ores.
Tr. Vses. Nauch.–Issled. Inst. Yad. Geofiz. Geokhim., No. 1, 20–41 (1968).
 (RUSSIAN). RUSSIA.
- 8818 Petersen, B. R.
Determination of mercury in organic materials by activation analysis.
Dan. Kemi, **49**, No. 11, 171–173 (1968).
 (DANISH). ISOTOPCENTRALEN.
- 8819 Orlov, Y. L., Kodochigov, P. N., Glazunov, M. P., Mednis, I. V., Pelekis, L. L.
Radioactivation determination of impurities in diamonds.
Tr. Mineral. Muz., Akad. Nauk SSSR, No. 18, 214–217 (1968).
 (RUSSIAN). RUSSIA.
- 8820 Nurmatov, D., Babakhodzhaev, S.
Development of activation methods for determination of rare earth elements in orthite from Eastern Karamazar.
Dokl. Akad. Nauk Tadzh. SSR, **11**, No. 6, 39–42 (1968).
 (RUSSIAN). RUSSIA.
- 8821 Oldham, G., Bibby, D. M.
Neutron flux distribution around the target of a 14 MeV neutron generator.
Nuclear Energy, 167–169 (1968).
 (ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY.
- 8822 Ryabukhin, Y. S., Melnik, A. D., Tkachev, A. V., Zaichik, V. E.
Neutron–activation technique of radiation of microdistributors of stable iodine in the thyroid gland.
Med. Radiol., **14**, No. 10, 5–8 (October 1969).
 (RUSSIAN) (ENGLISH SUMMARY). RUSSIA.
- 8823 Kasperek, K., Siller, V., Knieriem, H. J.
Neutron activation analysis of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**cobalt and calcium in
experimental cardiac failure
caused by cobaltous chloride.**

Z. Gesam. Exp. Med., **150**, 316–324
(6 August 1969).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR MEDIZIN DER
KERNFORSCHUNGSANLAGE JULICH.

8824 Steinnes, E., Johansen, O.

**Neutron activation method for
mercury (determination).**

Nord. Hyg. Tidskr., **50**, No. 2,
71–74 (1969).

(NORWEGIAN). INSTITUTT FOR
ATOMENERGI, ISOTOPLABORATORIENE,
KJELLER, NORGE.

8825 Kalmar, E., Raboczki, J., Tar, J.,
Varga, L.

**Fast industrial test for oxygen in
steel with a neutron activation
method.**

Banyasz. Kohasz. Lapok, Kohasz.,
102, No. 6, 247–253 (1969).

(HUNGARIAN). HUNGARY.

8826 Henke, G., Bohn, G.

**Detection of a repeated thallium
poisoning by means of neutron
activation analysis of hair and
nail material.**

Arch. Toxikol., **25**, 48–56 (19 June
1969).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR PHARMAZEUTISCHE
CHEMIE UND INSTITUT FÜR
GERICHTLICHE MEDIZIN DER
WESTFÄLISCHEN WILHELMS-UNIVERSITÄT
MÜNSTER.

8827 Petushkov, A. A., Linekin, D. M.,
Balcius, J. F., Brownell, J. L.

**High-resolution gamma-ray
spectrometry in the determination
of trace elements in human
fingernails.**

J. Nucl. Med., **10**, 730–731
(December 1969).

(ENGLISH). MASSACHUSETTS GENERAL
HOSPITAL, BOSTON, MASS.

8828 Boddy, K., Dennis, J. A., Lawson,
R. C.

Neutron dosimetry in the in vivo

**measurement of intrathyroidal
iodine in man by activation
analysis.**

Phys. Med. Biol., **14**, 471–480
(1969).

(ENGLISH) (FRENCH, GERMAN AND
RUSSIAN SUMMARIES). SCOTTISH
RESEARCH REACTOR CENTRE, EAST
KILBRIDE, GLASGOW, HEALTH PHYSICS
AND MEDICAL DIVISION, UKAEA,
HARWELL AND UKAEA, CHAPELCROSS
WORKS, ANNAN, DUMFRIESSHIRE.

8829 Molokhia, M. M., Portnoy, B.

**Neutron activation analysis of
trace elements in skin. III. Zinc
in normal skin.**

Brit. J. Dermatol., **81**, No. 10,
759–762 (1969).

(ENGLISH). MANCHESTER AND
SALFORD HOSPITAL FOR SKIN
DISEASES, MANCHESTER.

8830 Specker, H.

Trace analysis in practice.

Umschau, **69**, No. 6, 177 (1969).

(GERMAN). LEHRSTUHL FÜR
ANORGANISCHE CHEMIE DER
RUHR-UNIVERSITÄT BOCHUM.

8831 Okamura, T., Kurihara, H.

**Determination of rhodium, iridium,
platinum, and gold in rhodium and
platinum specimens by neutron
activation analysis.**

Radioisotopes, **18**, No. 6, 221–223
(1969).

(JAPANESE). KANTO GAKUIN
UNIVERSITY, TOKYO, JAPAN.

8832 Liu, C. L.

**The design and installation of
quick determination apparatus of
uranium and thorium in ores by
delayed neutron activation
analysis.**

Ho Tsu Ko Hsueh, **6**, No. 3–4,
109–121 (April 1969).

(ENGLISH) (CHINESE SUMMARY).
INSTITUTE OF NUCLEAR SCIENCE,
NATIONAL TSING HUA UNIVERSITY.
TAIWAN, CHINA.

8833 Wu, S. C., Chern, S. L.

**A rapid nondestructive method for
determination of hafnium in**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- zirconium dioxide and Taiwan zircon by neutron activation.**
Ho Tzu Ko Hsueh, **6**, No. 3-4, 97-101 (1969).
(ENGLISH) (CHINESE SUMMARY). INSTITUTE OF NUCLEAR ENERGY RESEARCH, TAIWAN, CHINA.
- 8834 Brodzinski, R. L., Palmer, H. E., Rancitelli, L. A.
The measurement of radiation exposure of astronauts by radiochemical techniques. Determination of the radionuclide content of feces and urine from astronauts engaged in space flight. Quarterly research report to the NASA manned spacecraft center, April 8-June 30, 1969.
BNWL-1183-1, 50p. (July 15, 1969).
(ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORIES, RICHLAND, WASHINGTON.
- 8835 Jover, P.
Equipment for the detection of residual fuel in leached hulls by neutron counting.
CEA-CONF-1410, 8p. (8 July 1969).
(ENGLISH). COMMISSARIAT A L ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE.
- 8836 Neirinckx, R., Adams, F., Hoste, J.
Determination of impurities in titanium and titanium dioxide by neutron activation analysis. Part IV. Determination of trace impurities in titanium dioxide single crystals.
Anal. Chim. Acta, **48**, No. 1, 1-11 (1969).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 8837 Brunfelt, A. O., Steinnes, E.
Instrumental activation analysis of silicate rocks with epithermal neutrons.
Anal. Chim. Acta, **48**, No. 1, 13-24 (1969).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). MINERALOGISK-GEOLOGISK MUSEUM. UNIVERSITY OF OSLO. OSLO AND INSTITUTE FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.
- 8838 Matthews, A. D., Riley, J. P.
The determination of thallium in silicate rocks, marine sediments, and sea water.
Anal. Chim. Acta, **48**, 25-34 (November 1969).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF OCEANOGRAPHY, THE UNIVERSITY, LIVERPOOL, ENGLAND.
- 8839 Priest, H. F., Burns, F. C., Priest, G. L.
An irradiation, transfer, and counting system for neutron activation analysis of short-lived components in inhomogeneous samples.
Anal. Chem., **42**, No. 4, 499-503 (April 1970).
(ENGLISH). ARMY MATERIALS AND MECHANICS RESEARCH CENTER, WATERTOWN, MASS.
- 8840 Pagden, I. M. H., Sutherland, J. C.
Resolving power of gamma-ray coincidence spectrometry using lithium drifted germanium detectors and its application to multiple radioisotope analysis.
Anal. Chem., **42**, 383-387 (March 1970).
(ENGLISH). ATLANTIC OCEANOGRAPHIC LABORATORY, BEDFORD INSTITUTE, DARTMOUTH, NOVA SCOTIA, CANADA.
- 8841 Brune, D., Wenzl, H.
Application of a liquid helium cryostat in neutron activation analysis of fluids.
Anal. Chem., **42**, No. 4, 511-512 (April 1970).
(ENGLISH). PHYSICS DEPARTMENT, INSTITUTE MAIER-LEIBNITZ,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- TECHNICAL UNIVERSITY, MUNICH,
GERMANY.
- 8842 Lutz, G. J.
**Determination of oxygen in sodium
by photon activation analysis.**
Anal. Chem., **42**, 531–532 (April
1970).
(ENGLISH). NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 8843 Menapace, L. M.
**Activation analysis with thermal
and fission neutrons.**
IS-T-341, 160p. (November 1969).
(ENGLISH). AMES LABORATORY, IOWA
STATE UNIVERSITY, AMES, IOWA.
- 8844 Chatters, R. M., Peterson, R. L.,
Rice, R. D.
**Part I. Studies on the application
of radioisotope techniques in
stream pollution problems in the
pulp and paper industry. Part II.
Paper mill fiber and chip tagging
and tracing technique. Final
report.**
RLO-1951-3, 40p. (November 1969).
(ENGLISH). RADIOISOTOPES AND
RADIATION LABORATORY, WASHINGTON
STATE UNIVERSITY, PULLMAN,
WASHINGTON.
- 8845 Tousset, J.
**Use of radioactive methods for the
determination of traces.**
LYCEN-6957, 11p. (9 December
1969).
(FRENCH). INSTITUT DE PHYSIQUE
NUCLEAIRE, UNIVERSITE DE LYON,
VILLEURBANNE.
- 8846 Schweikert, E. A.
**Research in charged particle
activation analysis. Progress
report, May 1, 1969–January 31,
1970.**
ORO-3922-1, 41p. (31 January
1970).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.
- 8847 Hanson, P. J., Forster, W. O.
Chemical water mass tracer.
RLO-1750-54, 33–36 (July 1969).
(ENGLISH). DEPARTMENT OF
OCEANOGRAPHY, OREGON STATE
UNIVERSITY, CORVALLIS, OREGON.
- 8848 Danne, R., Fourcy, A.
**Determination of rare earths in
plants using radioactivation
methods. Application of the
method in geochemical ecology.**
CEA-R-3917, 23p. (January 1970).
(FRENCH). LABORATOIRE DE
BIOLOGIE VEGETALE, CENTRE
D'ETUDES NUCLEAIRES DE GRENOBLE.
- 8849 De Goeij, J. J. M.
**Activation analysis for oxygen
with the help of tritons.**
Thesis. Technische Hogeschool,
156p. (1970).
(DUTCH). TECHNISCHE HOGESCHOOL,
DELFT, NETHERLANDS.
- 8850 Beyer, L. E., Baker, D. E.
**Neutron activation analysis
technique for the determination
of extractable aluminum.**
Agron. J., **62**, No. 1, 117 (1970).
(ENGLISH). THE PENNSYLVANIA
STATE UNIVERSITY, UNIVERSITY
PARK, PA.
- 8851 Laverlochere, J.
Neutron activation analysis.
Bull. Inform. Sci. Tech. (Paris),
No. 140, 61–63 (September 1969).
(FRENCH) (ENGLISH SUMMARY).
SECTION DES APPLICATIONS DES
RADIOELEMENTS, C.E.N. DE
GRENOBLE.
- 8852 Verot, J. L.
**Analytical applications of
radioelements. Activation
analysis.**
Ind. Chim. (Paris), **56**, No. 628,
413–414 (1969).
(FRENCH). FRANCE.
- 8853 Greenland, L. P., Mc Lane, J. E.
**Determination of germanium in
silicates by neutron activation
analysis.**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- U.S. Geol. Surv., Prof. Paper*, No. 650-C, C152-C154 (1969).
(ENGLISH). WASHINGTON, D.C.
- 8854 Nishimura, S.
Radium and uranium contents of standard rocks.
Chem. Geol., **5**, No. 2, 139-141 (1969).
(ENGLISH). DEPARTMENT OF GEOLOGICAL SCIENCES, UNIVERSITY OF OSAKA PREFECTURE, SAKAI CITY, OSAKA, JAPAN.
- 8855 Macklin, R. L., Gibbons, J. H., Ricci, E., Handley, T. H., Cuneo, D.
Proton reaction determination of lithium and fluorine in molten salt reactor graphite.
Nucl. Appl., **5**, No. 4, 269-274 (1968).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 8856 Dijkstra, G.
Instrumental methods in the chemical analysis of minerals.
Geol. Mijnbouw, **47**, No. 6, 379-393 (1968).
(ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, UTRECHT UNIVERSITY.
- 8857 Dear, B. D.
Trace element determination by neutron activation analysis.
Nuclear Energy, 138-146 (September-October 1969).
(ENGLISH). ENGLAND.
- 8858 Williamson, T. G., Harrison, W. W.
Comparisons of neutron activation analysis and spark source mass spectrometry.
CONF-691010-1, 14p. (1969).
(ENGLISH). UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA.
- 8859 Albert, P.
Nuclear methods for determination of oxygen and carbon on metal surfaces.
- Vide*, **24**, No. 141, 149-166 (1969).
(FRENCH). LABORATOIRE D'ANALYSE PAR ACTIVATION DU CECM-CNRS, VITRY-SUR-SEINE, FRANCE.
- 8860 Goode, G. C., Wood, G. A., Coleman, R. F.
Interim report on the multielement analysis of glass fragments by neutron activation and the application to forensic science.
AWRE-O-54/69, 32p. (November 1969).
(ENGLISH). UKAEA, AWRE, ALDERMASTON, BERKS. ENGLAND.
- 8861 Mc Murray, W. R.
Annual report of the Southern Universities Nuclear Institute for the year ending December 1966.
NP-17216, 56p.
(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, FAURE, CAPE SOUTH AFRICA.
- 8862 Tousset, J., Condamin, J., Picon, M.
Methods of analysis by activation of ancient coins with fast neutrons.
Method. Phys. Anal., **4**, 202-205 (June 1968).
(FRENCH) (ENGLISH SUMMARY). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON AND FACULTE LIBRE DES SCIENCES DE LYON. LYON. FRANCE.
- 8863 Bochvar, A. A., Gruzin, P. L., Tomson, G. I., Babikova, Y. F., Kurochkin, Y. Y., Minaev, V. M., Petrov, Y. I.
Determination of carbon in the reticular substructure of uranium by the method of activation autoradiography.
Soviet Atomic Energy, **27**, No. 3, 925-928 (September 1969).
(ENGLISH TRANSLATION). RUSSIA.
- 8864 Davydov, M. G., Shcherbachenko, V. A.
Selectivity of gamma-activation analysis.
Soviet Atomic Energy, **27**, No. 3,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 940-943 (September 1969).
(ENGLISH TRANSLATION). RUSSIA.
- 8865 Erwall, L. G.
Industrial isotope technology in Japan.
Tek. Vetensk. Forsk., **3**, 72-74 (1967).
(SWEDISH). ISOTOPTEKNISKA LABORATORIET. STOCKHOLM, SWEDEN.
- 8866 Amsel, G., David, D.
Microdetermination of nitrogen by direct observation of nuclear reactions. Applications.
Rev. Phys. Appl., **4**, No. 3, 383-391 (1969).
(FRENCH) (ENGLISH SUMMARY). GROUPE DE PHYSIQUE DES SOLIDES DE L'ECOLE NORMALE SUPERIEURE, PARIS, FRANCE.
- 8867 Bock-Werthmann, W., Niebuhr, H., Sansoni, B.
Bibliographies in nuclear science and technology. Section 14. Activation analysis.
AED-C-14-4, 325p. (October 1969).
(SEVERAL LANGUAGES). ZENTRALSTELLE FUR ATOMKERNENERGIE DOKUMENTATION, FRANKFURT, GERMANY
- 8868 Rhodes, J. R.
Applications of neutron activation to on-stream analysis.
Isotop. Radiat. Technol., **6**, No. 4, 359-368 (1969).
(ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS.
- 8869 Laul, J. C., Case, D. R., Schmidt-Bleek, F., Lipschutz, M. E.
Bismuth contents of chondrites.
Geochim. Cosmochim. Acta, **34**, No. 1, 89-103 (1970).
(ENGLISH). DEPARTMENT OF CHEMISTRY, PURDUE UNIVERSITY, LAFAYETTE, INDIANA.
- 8870 Schonholzer, P., Hilbrand, H., Schwemmer, M., Sieber, P.
Silicon determination in textiles by neutron activation analysis.
Textilveredlung, **5**, No. 1, 30-32 (1970).
(GERMAN) (ENGLISH SUMMARY). INRESCOR AG, SCHWERZENBACH, TRIATEX INTERNATIONAL AG, ZURICH AND HEBERLEIN AND CO. AG, WATTWIL.
- 8871 Crandall, J. L.
Survey of applications for ²⁵²Cf.
Isotop. Radiat. Technol., **7**, 306-318 (Spring 1970).
(ENGLISH). SAVANNAH RIVER LABORATORY, E.I. DU PONT DE NEMOURS AND CO., AIKEN, S.C.
- 8872 Kline, J. R., Brar, S. S.
Instrumental analysis of neutron-irradiated soils.
Isotop. Radiat. Technol., **7**, 319-324 (Spring 1970).
(ENGLISH). DIVISION OF BIOLOGICAL AND MEDICAL RESEARCH, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 8873 Israel Atomic Energy Commission
Nuclear chemistry.
IA-1190, 93-122 (July 1969).
(ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION, TEL AVIV, ISRAEL.
- 8874 Murali, A. V., Parekh, P. P., Sankar Das, M.
On the fission track method for the determination of the uranium content of whole rock samples.
Anal. Chim. Acta, **50**, No. 1, 71-77 (1970).
(ENGLISH) (FRENCH AND GERMAN SUMMARIES). ANALYTICAL DIVISION, BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY, INDIA.
- 8875 Junod, E.
Activation analysis. Counting of short half-life radionuclides. Volume II. Part C. Analytical programs for decay curves.
CEA-R-2980(2), 55p. (January 1970).
(FRENCH). CENTRE D ETUDES NUCLEAIRES DE GRENOBLE.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 8876 Givens, W. W., Mills, W. R.,
Caldwell, R. L.
Cyclic activation analysis.
Nucl. Instruments Methods, **80**, No. 1, 95–103 (1970).
(ENGLISH). MOBIL RESEARCH AND DEVELOPMENT CORPORATION, FIELD RESEARCH LABORATORY, DALLAS, TEXAS.
- 8877 Cohn, S. H., Dombrowski, C. S., Fairchild, R. G.
In vivo neutron activation analysis of calcium in man.
Intern. J. Applied Radiation Isotopes, **21**, No. 3, 127–137 (1970).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL LABORATORY, UPTON, L.I., N.Y.
- 8878 Veselsky, J. C., Nedbalek, M., Suschny, O.
The determination of protein bound iodine by neutron activation analysis.
Intern. J. Applied Radiation Isotopes, **21**, No. 4, 225–236 (1970).
(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). INTERNATIONAL ATOMIC ENERGY AGENCY, LABORATORY SEIBERSDORF, AUSTRIA.
- 8879 Ohno, S., Suzuki, M., Sasajima, K., Iwata, S.
Determination of fluorine in urine by photonuclear activation analysis.
Analyst, **95**, No. 1128, 260–263 (1970).
(ENGLISH). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, CHIBA-SHI, JAPAN AND RESEARCH REACTOR INSTITUTE, KYOTO UNIVERSITY, OSAKA, JAPAN.
- 8880 Wolfstirn, K. B.
Survey analysis of impurities in gallium arsenide by instrumental neutron activation.
J. Physics Chem. Solids, **31**, No. 4, 601–612 (1970).
(ENGLISH). BELL TELEPHONE LABORATORIES, INC., MURRAY HILL, N.J.
- 8881 Linstedt, K. D., Kruger, P.
Determination of vanadium in Colorado River waters.
Trans. Amer. Nucl. Soc., **10**, 20 (June 1967).
(ENGLISH). STANFORD UNIVERSITY, STANFORD, CALIF.
- 8882 Biggs, W. M., Rust, J. H.
A study of interchannel mixing employing activation analysis.
Trans. Amer. Nucl. Soc., **10**, 655–656 (November 1967).
(ENGLISH). UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA.
- 8883 Fedoroff, M.
Choice of duration of irradiation in activation analysis. Case of a radioisotope in the presence of another with longer half life.
C.R. Acad. Sci., Ser. C, **270**, No. 8, 692–695 (1970).
(FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY, VAL-DE-MARNE.
- 8884 Fedoroff, M.
Determination of palladium in molybdenum by neutron activation analysis.
Compt. Rend., Ser. C, **270**, 486–487 (2 February 1970).
(FRENCH). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY, VAL-DE-MARNE.
- 8885 Csath, G., Ordogh, M., Szabo, E.
Neutron activation analysis of contaminants in chemicals used in telecommunication techniques.
KFKI (Kozp. Fiz. Kut. Intez.) Kozlem., **18**, No. 1, 23–29 (1970).
(HUNGARIAN). HUNGARY.
- 8886 Weber, G., Guillaume, M.
A conventional method for 2.8 MeV neutron flux measurement.
Radiochem. Radioanal. Letters, **3**, 97–101 (12 March 1970).
(ENGLISH). LABORATOIRE

ACTIVATION ANALYSIS—ACCESSION NUMBERS

D'APPLICATION DES RADIOELEMENTS,
UNIVERSITE DE LIEGE, BELGIQUE.

(ENGLISH). U.S. NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.

- 8887 Pretorius, R., Wainerdi, R. E.
Determination of deuterium in heavy water by secondary deuteron activation.
Talanta, **17**, No. 1, 51-59 (1970).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 8888 Perdijon, J.
Automated neutron activation analysis for use in industrial processes.
Talanta, **17**, No. 3, 197-201 (1970).
(FRENCH) (ENGLISH AND GERMAN SUMMARIES). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE, GRENOBLE, FRANCE.
- 8889 Hahn, K. J., Sullivan, J. L., Blotcky, A. J., Arsenault, L. W., May, A. D.
Radiochemical separation and determination of cadmium from biological materials by solvent extraction.
Radiochim. Acta, **13**, 55-56 (February 1970).
(ENGLISH). REACTOR LABORATORY, VETERANS ADMINISTRATION HOSPITAL, OMAHA, NEBRASKA.
- 8890 Butler, J. W., Wolicki, E. A., Bernett, M. K.
Analysis of metal surfaces for residual grains of polishing compound.
Trans. Amer. Nucl. Soc., **13**, No. 1, 57 (1970).
(ENGLISH). U.S. NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.
- 8891 Knudson, A. R., Dunning, K. L.
Detection of chlorine by charged-particle-induced reactions.
Trans. Amer. Nucl. Soc., **13**, No. 1, 57-58 (1970).
- 8892 Schweikert, E. A.
Trace determination of lead using proton and deuteron activation analysis.
Trans. Amer. Nucl. Soc., **13**, No. 1, 58-59 (1970).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 8893 Currie, L. A.
Radioactivity monitors and accuracy in photonuclear experiments.
Trans. Amer. Nucl. Soc., **13**, No. 1, 59 (1970).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8894 Kim, C. K., Vasile, M. J.
The simultaneous determination of carbon and oxygen in electroplated gold by ³He ion bombardment.
Trans. Amer. Nucl. Soc., **13**, No. 1, 60 (1970).
(ENGLISH). BELL TELEPHONE LABORATORY, MURRAY HILL, N.J.
- 8895 Wiggins, P. F., Senftle, F. E., Duffey, D.
Neutron capture gamma-ray analysis of marine manganese nodules using ²⁵²Cf.
Trans. Amer. Nucl. Soc., **13**, No. 1, 60-63 (1970).
(ENGLISH). U.S. GEOLOGICAL SURVEY AND UNIVERSITY OF MARYLAND, COLLEGE PARK, MD.
- 8896 Perkins, R. W., Rancitelli, L. A., Cooper, J. A., Brown, R. E.
²⁵²Cf neutron source for laboratory and possible in situ mineral analysis.
Trans. Amer. Nucl. Soc., **13**, No. 1, 63-64 (1970).
(ENGLISH). PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 8898 Nargolwalla, S. S., Suddueth, J. E., Rook, H. L.
Determination of pulse pileup and

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- nuclear interferences in 14 MeV neutron activation analysis for trace oxygen.**
Trans. Amer. Nucl. Soc., **13**, No. 1, 78–79 (1970).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8899 Carpenter, B. S.
Boron and uranium determination in simulated lunar glass by the nuclear track technique.
Trans. Amer. Nucl. Soc., **13**, No. 1, 79 (1970).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8900 Maccabee, H. D., Schlenker, R. A., Brownell, G. L.
In vivo activation analysis for calcium – preliminary experiments at MITR.
Trans. Amer. Nucl. Soc., **13**, No. 1, 80–81 (1970).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 8901 Allina, Z., Otwinowski, W.
Determination of microtrace amounts of copper, zinc and arsenic in nitric and hydrochloric acids by the neutron activation method.
 TT 70–55103, 18p. (Translated from *Chemica Analityczna*, **9**, 203–211 (1964)).
 (ENGLISH TRANSLATION). DEPARTMENT OF TECHNICAL PHYSICS, INSTITUTE OF GENERAL CHEMISTRY, WARSAW, POLAND.
- 8902 Leddicotte, G. W.
Activation analysis for environmental health problems.
Proceedings University Missouri Annual Conference Trace Substance Environmental Health, **1st**, 56–85 (1967).
 (ENGLISH). RESEARCH REACTOR FACILITY, UNIVERSITY OF MISSOURI, COLUMBIA, MO.
- 8903 Krishnan, S. S., Gupta, R. C.
Determination of phosphides and white phosphorus in biological materials by neutron activation analysis.
Anal. Chem., **42**, No. 6, 557–560 (1970).
 (ENGLISH). THE CENTRE OF FORENSIC SCIENCES, PROVINCE OF ONTARIO, TORONTO, ONTARIO, CANADA.
- 8904 Ljunggren, K., Sjostrand, B., Hagman, D., Westermark, T.
Activation analysis.
Nord. Hyg. Tidskr., **50**, No. 2, 75–77 (1969).
 (SWEDISH). SWEDEN.
- 8905 Laverlochere, J.
Recent examples of neutron activation analysis in metallurgy, electronics, and chemistry.
Method. Phys. Anal., **195–199** (October–December 1967).
 (FRENCH) (ENGLISH SUMMARY). GROUPE ANALYSE PAR ACTIVATION, SECTION D'APPLICATION DES RADIOELEMENTS, CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE.
- 8906 Ryabukhin, Y. S.
Activation analysis in the diagnosis of various diseases. Review.
Med. Radiol., **14**, No. 12, 47–59 (1969).
 (RUSSIAN). INSTITUTE MED. RADIOL., OBNINSK, USSR.
- 8907 Dubinskaya, N. A., Lazovskii, I. R., Shvarts, R. O., Yakovleva, M. A.
Quantitative determination of copper, zinc, and manganese in human hair by neutron activation analysis.
Mater. Dokl. Nauch. Sess. Rizh. Med. Inst., **15th**, 1967, 189–190, Korzans, Y. (Ed.), Rizh. Med. Inst., Riga, USSR (1968).
 (RUSSIAN). RUSSIA.
- 8908 Martina, E. F., Carlson, E. R.
Development of neutron–gamma ray instrumentation for lunar surface composition analysis. Semiannual

ACTIVATION ANALYSIS—ACCESSION NUMBERS

technical report, January 1–June 30, 1961.

AD-263521, 20p.

(ENGLISH). SPACE PHYSICS
LABORATORY, INGLEWOOD,
CALIFORNIA.

Destructive and nondestructive determination of manganese, indium, and uranium.

Anal. Chim. Acta, **50**, No. 1, 31–38 (1970).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.

8909 Steinnes, E.

Determination of the main elements in geological materials by neutron activation analysis.

Kjemi, **29**, No. 1, 10–13 (1969).

(NORWEGIAN) (ENGLISH SUMMARY).
INSTITUTT FOR ATOMENERGI,
KJELLER.

8914 Das, H. A., Hoede, D., Macke, J. F., Zonderhuis, J.

A routine procedure for the determination of strontium and barium in rocks and sediments by neutron activation analysis.

Radiochem. Radioanal. Letters, **4**, No. 3, 171–180 (1970).

(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.

8910 Kato, T., Voigt, A. F.

The production rates of rare earth nuclides by 70 MeV bremsstrahlung for photon activation analysis.

J. Radioanal. Chem., **4**, 325–335 (1970).

(ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENT OF CHEMISTRY, IOWA STATE UNIVERSITY, AMES, IOWA.

8915 Chiba, M.

Rapid determination of molar ratios in binary systems by 14 MeV neutron activation analysis.

Trans. National Research Institute for Metals, **12**, No. 2, 78–81 (1970).

(ENGLISH). JAPAN.

8911 Kuusi, J., Lehtinen, A.

Neutron activation analysis of microtome cuts in examination of paper for its filler distribution.

Pulp and Paper Magazine of Canada, **71**, No. 3, T65–T71 (1970).

(ENGLISH). TECHNICAL UNIVERSITY OF HELSINKI, OTANIEMI, FINLAND AND VALMET OY, RAUTPOHJA WORKS, JYVASKYLA, FINLAND.

8916 Lutz, G. J., Masters, L. W.

Determination of carbon in high purity metals by photon activation analysis.

Anal. Chem., **42**, No. 8, 948–950 (July 1970).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

8912 Armstrong, R. L.

Potassium–argon dating using neutron activation for argon analysis. Comparison with isotope dilution argon analyses.

Geochim. Cosmochim. Acta, **34**, No. 2, 233–236 (1970).

(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, YALE UNIVERSITY, NEW HAVEN.

8917 Dugain, F., Andre, M., Speecke, A.

Determination of the oxygen content of aluminum by 14 MeV neutron activation effects of surface removal after irradiation.

Radiochem. Radioanal. Letters, **4**, No. 2, 35–41 (1970).

(ENGLISH). CENTRE DE RECHERCHES, VOREPPE, FRANCE AND UNIVERSITY OF GHENT, GHENT, BELGIUM.

8913 Neirinckx, R., Adams, F., Hoste, J.

Determination of impurities in titanium and titanium dioxide by neutron activation analysis. V.

8918 Gillespie, F. C., Shimmins, J., Lenihan, J. M. A.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Total body bromine. Estimation by occupancy principle and neutron activation analysis.**
Radiochem. Radioanal. Letters, **4**, No. 2, 43–49 (1970).
(ENGLISH). DEPARTMENT OF CLINICAL PHYSICS AND BIO-ENGINEERING, WESTERN REGIONAL HOSPITAL BOARD, GLASGOW, SCOTLAND.
- 8919 Rakovic, M.
Determination of nickel in asphalts by neutron activation analysis.
Radiochem. Radioanal. Letters, **4**, No. 2, 59–63 (1970).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 8920 Lutz, G. J.
Pollution analysis. A bibliography of the literature of activation analysis.
NBS Tech. Note 532, 32p. (June 1970).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8921 Lutz, G. J.
14-MeV neutron generators in activation analysis. A bibliography.
NBS Tech. Note 533, 91p. (June 1970).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8922 Lutz, G. J.
Oceanography. A bibliography of selected activation analysis literature.
NBS Tech Note 534, 36p. (June 1970).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8923 La Fleur, P. D.
Activation analysis section. Summary of activities July 1968 to June 1969.
NBS Tech. Note 508, 147p. (July 1970).
(ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 8924 Gibbons, D.
Activation analysis — an aid to forensic investigations.
J. Forensic Science Society, **4**, 33–38 (1963).
(ENGLISH). WANTAGE RESEARCH LABORATORY, AERE, WANTAGE, BERKSHIRE, ENGLAND.
- 8925 Bondy, C., Vidal, J. P., Robin, G.
Method of activatable tracers and its recent applications to glass making and petroleum.
Bull. Inform. A.T.E.N. (Assn. Tech. Energy. Nucl.), Suppl. No. 61, 11–15 (September–October 1966).
(FRENCH). SOCIETE L'ATOME INDUSTRIEL.
- 8926 Cuypers, M., Hislop, J. S., Kuykendall, W. E., Wainerdi, R. E.
The measurement of the lunar surface composition using nuclear activation analysis.
Progresso Elettronico, Volume Secondo, 15–28, Rome, Rassegna Internazionale Elettronica, Nucleare e Teleradiocinematografica (1966).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 8927 Howie, R. A., Smith, H.
Mercury in human tissue.
J. Forensic Science Society, **7**, 90–96 (1967).
(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND.
- 8928 Gorev, A. V., Kritsuk, G. S., Nazarov, S. S.
Calibration of portable beryllometers.
Geofiz. App., No. 38, 78–85 (1968).
(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 8929 Akaboshi, M., Kawai, K.
Fundamental study of determination of alkaline phosphatase activity by activation analysis.
Dobutsugaku Zasshi, **77**, 378–382 (December 1968).
 (JAPANESE) (ENGLISH SUMMARY). RESEARCH REACTOR INSTITUTE KYOTO UNIVERSITY, KUMATORI-CHO, SENNAN-GUN, OSAKA, JAPAN
- 8930 Glasson, V. V., Mandelbaum, M. M., Turitsyn, K. S.
Neutron activation analysis of alumina and silica.
Geol. Geofiz., No. 5, 127–132 (1969).
 (RUSSIAN). VOST. GEOFIZ. TREST. IRKUTSK, USSR.
- 8931 Kasymov, A. K., Masagutov, V. S.
Determination of copper content in rocks by activation analysis.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.-Mat. Nauk, **13**, No. 2, 77–78 (1969).
 (RUSSIAN). TASHKENTSKII GOSUNIVERSITET IM V.I. LENINA, USSR.
- 8932 Nurmatov, D., Babakhodzhaev, S.
Determination of some cerium subgroup rare earth elements in Eastern Karamazar rocks by nondestructive neutron activation analysis.
Izv. Akad. Nauk Tadzh. SSR, Otd. Fiz.-Mat. Geol.-Khim. Nauk, No. 1, 23–27 (1969).
 (RUSSIAN). INSTITUT YADERNOI FIZIKI, AN UZBEKSKOII SSR I INSTITUT GEOLOGII AN TADZHIKSKOII SSR.
- 8933 Shibuya, M.
Application to research and its problems. Agriculture.
Genshiryoku Kogyo, **15**, No. 5, 25–30 (May 1969).
 (JAPANESE). NATIONAL INSTITUTE OF AGRICULTURAL SCIENCES, TOKYO, JAPAN.
- 8957 Aufroix, L., Pougheon, S., Ceccaldi, P. F.
Identifying paint flakes in evidence. 5. Gamma spectrophotometry in the study of paint flakes.
International Criminal Police Review, No. 197, 99–102 (1966).
 (ENGLISH). CRIMINAL IDENTIFICATION DEPARTMENT, PREFECTURE DE POLICE, PARIS, FRANCE.
- 8958 Fish, B. R., Walker, R. L., Royster, G. W., Thompson, J. L.
Redispersion of settled particulates.
Surface Contamination, 75–81, New York, Pergamon Press (1966).
 (ENGLISH). HEALTH PHYSICS DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENN.
- 8959 Rewienska-Kosciukowa, B., Wezranowski, E., Zarzecka, E., Radwan, M., Poluchowicz, L.
Investigations on the origin and quantity of exogenous inclusions in steel by means of nonradioactive tracers and activation analysis.
Hutnik, **34**, 576–580 (1967).
 (POLISH). INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 8960 Ritzl, F., Kasperek, K.
Activation analysis of resorbed elements by enriched stable isotopes.
Elektromedizin, **12**, 236–239 (November 1967).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FUR MEDIZIN, KLINISCHE ABTEILUNG, KERNFORSCHUNGSANLAGE, JULICH.
- 8961 Tustanovskii, V. T., Orifkhodzhaev, U., Starchik, L. P.
Use of deuterium-tritium neutrons for determination of gallium in aluminum by activation analysis.
Dokl. Akad. Nauk Tadzh. SSR, **11**, No. 6, 20–22 (1968).
 (RUSSIAN). TADZHIKSKII GOSUNIVERSITET IM V.I. LENINA.
- 8962 Arroyo A., A., Toro G., J.
Determination of traces of selenium and tellurium in sulfur

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- by neutron activation.**
IAN-Q-8, 14p. (1968).
(SPANISH). INSTITUTO DE ASUNTOS NUCLEARES, SECCION DE RADIOQUIMICA, BOGOTA, D.E., COLOMBIA.
- 8963 Eckhoff, N. D., Hill, T. R., Kimel, W. R.
Trace element determinations by neutron activation analysis. Theory and development.
Trans. Kans. Acad. Sci., **71**, No. 2, 101-135 (1968).
(ENGLISH). DEPARTMENT OF NUCLEAR ENGINEERING, KANSAS AGRICULTURE EXPERIMENT STATION, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS
- 8964 Rieder, R., Wanke, H.
Study of trace element abundance in meteorites by neutron activation.
Meteorite Research, 75-86, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). MAX PLANCK INSTITUT FUR CHEMIE, OTTO HAHN INSTITUT, MAINZ, GERMANY.
- 8965 Quijano-Rico, M., Wanke, H.
Determination of boron, lithium, and chlorine in meteorites.
Meteorite Research, 132-145, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). MAX PLANCK INSTITUT FUR CHEMIE, OTTO HAHN INSTITUT, MAINZ, GERMANY.
- 8966 Herpers, U., Herr, W., Wolfle, R.
Evaluation of ^{53}Mn by (n, γ) activation, ^{26}Al and special trace elements in meteorites by γ -coincidence techniques.
Meteorite Research, 387-396, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT KOLN, GERMANY.
- 8967 Kempe, W., Muller, O.
The stony meteorite Krahenberg. Its chemical composition and the Rb-Sr age of the light and dark portions.
Meteorite Research, 418-428, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). MAX PLANCK INSTITUT FUR KERNPHYSIK, HEIDELBERG, GERMANY.
- 8968 Kaiser, W., Zahringer, J.
K/Ar-age determinations of iron meteorites V.
Meteorite Research, 429-443, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). MAX PLANCK INSTITUT FUR KERNPHYSIK, HEIDELBERG, GERMANY.
- 8969 Nozaki, T.
Radioactivation analyses.
Kagaku No Ryoiki, **23**, No. 9, 851-857 (1969).
(JAPANESE). INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, TOKYO, JAPAN.
- 8970 Santos, G. P., Wainerdi, R. E.
Neutron activation analysis of the 1965 Taal volcanic ash.
Bull. Volcanol., **32**, No. 3, 575-578 (1969).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 8971 Vasserman, A. M., Chapyzhnikov, B. A., Kunin, L. L., Yakovlev, Y. V.
Method for isolating the ^{15}O

ACTIVATION ANALYSIS—ACCESSION NUMBERS

**isotope during radioactivation
determination of oxygen in pure
materials.**

J. Anal. Chem., USSR, **24**, No. 11,
1386–1389 (November 1969).

(ENGLISH TRANSLATION). V.I.
VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES OF
THE USSR.

8972 Egiazarov, B. G., Zyubko, V. A.,
Selyutin, R. P.

**Choice of an analytic procedure in
instrumental activation analysis
taking account of the sensitivity
and statistical accuracy of the
measurements.**

Soviet Atomic Energy, **27**, No. 5,
1244–1247 (November 1969).

(ENGLISH TRANSLATION). RUSSIA.

8973 Skakun, N. A., Kharkov, O. N.

**Use of the nuclear reaction $^{18}\text{O}(\text{p},\gamma)^{19}\text{F}$ to study the distribution
of oxygen in oxide films.**

Soviet Atomic Energy, **27**, No. 4,
1121–1122 (October 1969).

(ENGLISH TRANSLATION). RUSSIA.

8974 Zinovev, N. V.

**Theory of partial interpretation
in activation analysis.**

Soviet Atomic Energy, **27**, No. 2,
836–838 (1969).

(ENGLISH TRANSLATION). RUSSIA.

8975 Prokopchik, V. I., Bushkov, A. P.,
Bernadskii, K. G.

**Use of neutron activation analysis
for determining fluorite content
in mining trolleys.**

Soviet Atomic Energy, **27**, No. 2,
883–885 (August 1969).

(ENGLISH TRANSLATION). RUSSIA.

8976 Belyakov, M. A., Anchevskii, E. V.

**Possibility of eliminating the
effect of sample moisture on the
accuracy of activation analysis.**

Industrial Laboratory, **35**, No. 11,
1661–1663 (November 1969).

(ENGLISH TRANSLATION). RUSSIA.

8977 Nagai, T., Fujii, I., Muto, H.,
Inouye, T.

**Total-body nitrogen and protein
determined by in vivo
fast-neutron activation analysis.**

J. Nucl. Med., **10**, 192–196 (April
1969).

(ENGLISH). NATIONAL INSTITUTE OF
RADIOLOGICAL SCIENCES, CHIBA,
JAPAN AND TOSHIBA CENTRAL
RESEARCH LABORATORY, KAWASAKI,
JAPAN.

8978 Abdullaev, A. A., Khamidova, R.,
Zhuk, L. I., Khatamov, S.

**Radiation-based determination of
copper in natural waters.**

*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, No. 5, 75–76
(1969).

(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT.

8979 Sattarov, M., Talanin, Y. N.,
Kryzhenkova, N. A.

**Calculation of the effect of
nonuniform distribution of matter
on activation analysis with a
neutron generator.**

*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, No. 1, 40–42
(1969).

(RUSSIAN). INSTITUTE OF NUCLEAR
PHYSICS, TASHKENT.

8980 Ewing, R. A., Howes, J. E., Price,
R. B.

**Bioenvironmental and radiological
safety feasibility studies,
Atlantic-Pacific Interoceanic
Canal. Radionuclide and stable
element analyses of environmental
samples from routes 17 and 25.**
BMI-171-29, 52p. (2 December
1969).

(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, COLUMBUS, OHIO.

8981 Van Grieken, R., Speecke, A.,
Hoste, J.

**The determination of copper in
iron and steel by 14 MeV neutron
activation analysis.**

Anal. Chim. Acta, **51**, No. 2,
151–162 (1970).

(ENGLISH) (FRENCH AND GERMAN)

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- SUMMARIES). INSTITUTE OF NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 8982 Rey, P., Wakita, H., Schmitt, R. A.
Radiochemical neutron activation analysis of indium, cadmium, yttrium, and the 14 rare earth elements in rocks.
Anal. Chim. Acta, **51**, No. 2, 163–178 (1970).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY AND THE RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.
- 8983 Baishya, N. K., Heslop, R. B.
The substoichiometric determination of chromium in aluminium alloys.
Anal. Chim. Acta, **51**, No. 1, 69–76 (1970).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). CHEMISTRY DEPARTMENT, THE UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY, MANCHESTER, ENGLAND.
- 8984 Ehmman, W. D., Baedecker, P. A., Mc Kown, D. M.
Gold and iridium in meteorites and some selected rocks.
Geochim. Cosmochim. Acta, **34**, 493–507 (April 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8985 Ehmman, W. D., Rebagay, T. V.
Zirconium and hafnium in meteorites by activation analysis.
Geochim. Cosmochim. Acta, **34**, No. 6, 649–658 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 8986 Briscoe, G. B., Humphries, S.
Substoichiometric determination of traces of palladium by neutron activation analysis.
Talanta, **17**, No. 5, 371–380 (1970).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF ASTON IN BIRMINGHAM, GOSTA GREEN, BIRMINGHAM, ENGLAND.
- 8987 Johansen, O., Steinnes, E.
Determination of cobalt, copper, iron, gallium, tungsten, and zinc in rocks by neutron activation and anion-exchange separation.
Talanta, **17**, No. 5, 407–414 (1970).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.
- 8988 Wesch, H., Zimmerer, J., Schuhmacher, J.
Simultaneous determination of copper, manganese, and zinc in biological materials by means of neutron activation analysis and chelate extraction.
Intern. J. Appl. Radiation Isotopes, **21**, No. 7, 431–433 (1970).
 (ENGLISH). INSTITUT FÜR NUKLEARMEDIZIN DES DEUTSCHEN KREBSFORSCHUNGSZENTRUMS, HEIDELBERG, GERMANY.
- 8989 Muller, O.
Sodium, potassium, and cesium concentrations in United States Geological Survey Standards peridotite PCC-1, dunite DTA-1, and diabase W-1 by neutron activation analysis.
Earth Planet. Sci. Letters, **8**, No. 4, 283–284 (1970).
 (ENGLISH). MAX PLANCK INSTITUT FÜR KERNPHYSIK, HEIDELBERG, GERMANY.
- 8990 May, S., Samadi, A. A.
Activation analysis determination of germanium in high purity iron and aluminum.
Bull. Soc. Chim. Fr., No. 4, 1628–1631 (1970).
 (FRENCH). DEPARTEMENT DE

ACTIVATION ANALYSIS—ACCESSION NUMBERS

PHYSICO-CHIMIE. SERVICE DE
PHYSICO-CHIMIE-APPLIQUEE, C.E.A.,
SACLAY.

TEXAS AND BAYLOR UNIVERSITY
SCHOOL OF MEDICINE, WACO, TEXAS.

8991 Bachmann, K., Lieser, K. H.

**Activation analysis of rare earths
in nuclear reactor fuels.**

Z. Anal. Chem., **250**, No. 3,
172-178 (1970).

(GERMAN) (ENGLISH SUMMARY).
LEHRSTUHL FUR KERNCHEMIE,
TECHNISCHE HOCHSCHULE DARMSTADT.

8996 Erdtmann, G., Freiburg, C., Petri,
H.

**Experiences with the least squares
analysis of γ -ray spectra of
nuclide mixtures and the
simultaneous determination of
long-lived radionuclides in
neutron-activated lead and
aluminum.**

Z. Anal. Chem., **250**, No. 1, 1-12
(1970).

(GERMAN) (ENGLISH SUMMARY).
ZENTRALLABOR FUR CHEMISCHE
ANALYSE DER KERNFORSCHUNGSANLAGE
JULICH GMBH.

8992 Fedoroff, M.

**Determination of manganese,
copper, nickel, tungsten, and
sodium in molybdenum with a
single neutron irradiation.**

Bull. Soc. Chim. Fr., No. 3,
1233-1236 (1970).

(FRENCH). LABORATOIRE D'ANALYSE
PAR ACTIVATION DU CECM-CNRS,
VITRY-SUR-SEINE.

8997 Wilson, H. W.

**Annual report, 1968-1969.
SRRC-37/70, 19p. (January 1970).**

(ENGLISH). SCOTTISH RESEARCH
REACTOR CENTRE, EAST KILBRIDE.

8993 Das, H. A.

**Radioanalytical notes. XIII.
Routine measurement of the sodium
and potassium concentrations in
solid, pulverized samples.**

Chem. Weekbl., **66**, No. 1, 7-8
(1970).

(DUTCH). NETHERLANDS.

8998 Vobecky, M., Randa, Z., Benada,
J., Kuncir, J.

**Nondestructive neutron activation
analysis of mineral materials.**

UJV-2319-CH, 113p. (January 1970).

(ENGLISH). USTAVU JADERNEHO
VYZKUMU CSAV, REZ, PRAHA.

8994 Champlin, J. B. F.

**Void-space analysis by use of
thermal-neutron irradiated air
(^{41}Ar).**

Nucl. Appl. Technol., **8**, 283-289
(March 1970).

(ENGLISH). NUCLEAR SCIENCES
DIVISION, ENGINEERING EXPERIMENT
STATION, GEORGIA INSTITUTE OF
TECHNOLOGY, ATLANTA, GEORGIA.

8999 Gordus, A. A.

**Neutron activation analysis of
archaeological artifacts.**

COO-912-20, 22p. (26 February
1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, THE UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

8995 Mc Andrew, R. G., Smathers, J. B.,
Wainerdi, R. E., Harrison, G. M.,
Doggett, R.

**Application of neutron activation
analysis to the sweat test
diagnosis of cystic fibrosis.**

Nucl. Appl. Technol., **8**, 290-295
(March 1970).

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, TEXAS A AND M
UNIVERSITY, COLLEGE STATION,

9000 Qureshi, I. H., Cheema, M. N.

**Activation analysis of copper,
manganese, zinc, nickel, and
sodium in citrus and tomato
leaves.**

PAECL/Chem-117, 22p. (February
1970).

(ENGLISH). CHEMISTRY DIVISION,
ATOMIC ENERGY CENTRE, LAHORE,
WEST PAKISTAN.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9001 Zadvornyi, A. S., Gorenko, A. F., Skakun, N. A., Klyucharev, A. P.
Determination of the oxygen content of beryllium by proton activation.
J. Anal. Chem., USSR, **25**, No. 2, 292–296 (February 1970).
 (ENGLISH TRANSLATION). PHYSICOTECHNICAL INSTITUTE, ACADEMY OF SCIENCES OF THE UKRAINIAN SSR, KHARKOV.
- 9002 Wichmann, P. A., Webb, R. W.
Neutron activation logging for silicon to aluminum ratios.
J. Petrol. Technol., **22**, 201–206 (February 1970).
 (ENGLISH). DRESSER ATLAS AND MARATHON OIL CO.
- 9003 Brooks, C. K.
The concentrations of zirconium and hafnium in some igneous and metamorphic rocks and minerals.
Geochim. Cosmochim. Acta, **34**, 411–416 (March 1970).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND MINERALOGY, OXFORD.
- 9004 Loucks, R. H., Winchester, J. W.
Some features of chlorine and bromine in aerosols.
J. Geophys. Res., **75**, 2311–2315 (20 April 1970).
 (ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY AND GREAT LAKES RESEARCH DIVISION, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 9005 Randa, Z., Benada, J., Kuncir, J., Vobecky, M.
Determination of rhenium and other trace elements in molybdenites by means of instrumental neutron activation analysis.
Radiochem. Radioanal. Letters, **3**, 227–237 (24 April 1970).
 (ENGLISH). INSTITUTE OF MINERAL RAW MATERIALS, KUTNA HORA, NUCLEAR RESEARCH INSTITUTE OF CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 9006 Rook, H. L., Schweikert, E. A.
Time dependent charged particle activation analysis. An approach for studying trace element distributions.
Radiochem. Radioanal. Letters, **3**, 239–248 (24 April 1970).
 (ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 9007 Simkova, M., Kukula, F.
Determination of trace impurities in germanium by means of activation analysis.
Radiochem. Radioanal. Letters, **3**, 295–303 (24 April 1970).
 (ENGLISH). NUCLEAR RESEARCH INSTITUTE OF CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 9008 Palomares, J., Travesi, A., Dominguez, G.
Neutron activation analysis of iodine traces in activated charcoal filters.
Radiochem. Radioanal. Letters, **3**, 357–364 (24 April 1970).
 (ENGLISH). JUNTA DE ENERGIA NUCLEAR, RADIOCHEMISTRY SECTION, MADRID, SPAIN.
- 9009 Lyon, W. S., Ricci, E., Ross, H. H.
Nucleonics.
Anal. Chem., **42**, No. 5, 123R–129R (April 1970).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 9010 Kosta, L., Slunecko, J.
Nondestructive determination of fluorine by photon activation using a betatron.
Anal. Chem., **42**, No. 8, 831–835 (July 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF LJUBLJANA AND INSTITUTE JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA.
- 9011 Turkstra, J., Pretorius, P. J., De Wet, W. J.
Nondestructive determination of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- platinum metals in ores, matte, and lead assay beads by reactor activation analysis and high resolution gamma spectrometry.**
Anal. Chem., **42**, No. 8, 835–841 (July 1970).
 (ENGLISH). CHEMISTRY DIVISION, NATIONAL NUCLEAR RESEARCH CENTRE, PRETORIA, SOUTH AFRICA.
- 9012 Dams, R., Robbins, J. A., Rahn, K. A., Winchester, J. W.
Nondestructive neutron activation analysis of air pollution particles.
Anal. Chem., **42**, No. 8, 861–867 (July 1970).
 (ENGLISH). DEPARTMENTS OF METEOROLOGY AND OCEANOGRAPHY, AND GREAT LAKES RESEARCH DIVISION, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 9013 Lee, D. M., Stauffacher, C. V., Markowitz, S. S.
Determination of oxygen in copper by helium-3 activation analysis.
Anal. Chem., **42**, No. 9, 994–998 (August 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF.
- 9014 Tunnicliff, D. D., Bowers, R. C., Wyld, G. E. A.
Computer-based system for neutron activation analysis.
Anal. Chem., **42**, No. 9, 1048–1055 (August 1970).
 (ENGLISH). SHELL DEVELOPMENT COMPANY, EMERYVILLE, CALIF.
- 9015 Junod, E.
Program elements for gamma spectrometry and activation analysis.
 CEA-R-3955, 86p. (February 1970).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE.
- 9016 Sklavenitis, H., De Beaucourt, P., Lott, M.
Neutron beam dosimetry applied in vivo activation analysis.
 CEA-N-1245, 19p. (January 1970).
 (FRENCH). CENTRE D'ETUDES NUCLEAIRES DE FONTENAY-AUX-ROSES.
- 9017 Borchardt, G. A.
Neutron activation analysis for correlating volcanic ash soils.
 RLO-2062-6, 219p. (June 1970).
 (ENGLISH). OREGON STATE UNIVERSITY, CORVALLIS, OREGON.
- 9018 Boddy, K.
In vivo activation analysis of iodine in the thyroid gland – a preliminary study.
Strahlentherapie, Sonderbaende, **65**, 377–383 (1967).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). SCOTTISH RESEARCH CENTRE, GLASGOW, SCOTLAND.
- 9019 Harndt, E., Koeppe, P., Oeser, H.
Activation analysis as a method of investigation in dentistry.
Strahlentherapie, Sonderbaende, **65**, 384–389 (1967).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). STRAHLENINSTITUT, -KLINIK UND KLINIK FUR ZAHN, MUND- UND KIEFERNKRANKHEITEN DER FREIEN UNIVERSITAT BERLIN.
- 9020 Laverlochere, J.
Activation analysis by means of 14 MeV neutrons.
Automation and Instrumentation, 569–576, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan, Tamburini Editore (1967).
 (FRENCH) (ENGLISH AND ITALIAN SUMMARIES). CENTRE D'ETUDES NUCLEAIRES DE GRENOBLE.
- 9021 Comar, D., Le Poec, C.
Possibilities of automatic determination by activation analysis of certain trace elements in biological liquids.
Automation and Instrumentation, 577–586, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Tamburini Editore (1967).
 (FRENCH) (ENGLISH AND ITALIAN SUMMARIES). COMMISSARIAT A L'ENERGIE ATOMIQUE, DEPARTEMENT DE BIOLOGIE, ORSAY (S ET O), FRANCE.
- 9022 Meloni, S.
Activation analysis and computers.
Automation and Instrumentation, 587–593, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan, Tamburini Editore (1967).
 (ENGLISH) (FRENCH AND ITALIAN SUMMARIES). LABORATORIO DI RADIOCHIMICA DELL UNIVERSITA DI PAVIA.
- 9023 Girardi, F., Guzzi, G., Pauly, J.
A neutron activation semi-automated system for the determination of trace elements.
Automation and Instrumentation, 594–599, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan, Tamburini Editore (1967).
 (ENGLISH) (FRENCH AND ITALIAN SUMMARIES). JOINT NUCLEAR RESEARCH CENTER, ISPRA, ITALY.
- 9024 Bonsignori, C., Granucci, G., Pellegrini, U.
Analyzer-computers system for radioactivation analysis.
Automation and Instrumentation, 600–613, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan, Tamburini Editore (1967).
 (ENGLISH) (FRENCH AND ITALIAN SUMMARIES). LABEN – LABORATORI ELETTRONICI E NUCLEARI – MILANO AND ISTITUTO DI FISICA DELL UNIVERSITA DI MILANO.
- 9025 Martinelli, P.
Application of radioactive methods to analysis and to the control of manufacturing.
Automation and Instrumentation, 622–631, Dadda, L. (Ed.), Proceedings of the VIIIth International Convention, Milan, 19th–25th November 1964, Milan, Tamburini Editore (1967).
 (FRENCH) (ENGLISH AND ITALIAN SUMMARIES). C.E.N. DE SACLAY, FRANCE.
- 9026 Iddings, F. A., Arman, A., Perez, A. W., II, Kiesl, D. W.
Nuclear techniques for cement determination.
 PB-178464, 73p. (1968).
 (ENGLISH). LOUISIANA STATE UNIVERSITY, BATON, ROUGE, LOUISIANA.
- 9027 Sayre, E. V., Lechtman, H. N.
Neutron activation autoradiography of oil paintings.
Studies in Conservation, 13, No. 4, 161–185 (1968).
 (ENGLISH) (FRENCH, GERMAN, SPANISH AND ITALIAN SUMMARIES). LABORATORY FOR RESEARCH ON ARCHAEOLOGICAL MATERIALS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASS.
- 9028 Carr-Brion, K. G., Stuart, J. P.
On-stream analytical application unit.
Chem. Process (London), 15, No. 10, (Suppl.), S30, S32, S34 (1969).
 (ENGLISH). WARREN SPRING LABORATORY, STEVENAGE.
- 9029 Kusaka, Y., Tsuji, H.
Nondestructive determination of elements by prompt gamma ray spectrometry using Am-241-Be neutron source.
Proceedings Japan Conference Radioisotopes, 9th, Tokyo, 66–68 (1969).
 (JAPANESE). KONAN UNIVERSITY, KOBE CITY, JAPAN.
- 9030 Maruyama, Y., Komiya, K., Manri, T.
Determination of copper, arsenic, and mercury in plant by activation analysis.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Proceedings Japan Conference
Radioisotopes, 9th, Tokyo, 69–71
(1969).*
(JAPANESE). MUSASHI INSTITUTE OF
TECHNOLOGY, JAPAN.
- 9031 Maruyama, Y., Manri, T., Komiya,
K.
**Determination of chlorine and
bromine in plant by activation
analysis.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo, 72–74
(1969).*
(JAPANESE). MUSASHI INSTITUTE OF
TECHNOLOGY, JAPAN.
- 9032 Nagao, H., Tani, A., Iwase, T.,
Iio, M.
**Measurement of trace elements in
the human liver by neutron
activation analysis. Bromine and
iodine.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo, 75–77
(1969).*
(JAPANESE). NIPPON ATOMIC
INDUSTRY GROUP CO., LTD.,
KAWASAKI, JAPAN.
- 9033 Kondo, Y., Miki, R., Azuma, T.
**Nondestructive photoactivation
analysis of Cd, Ba, and Pb in PVC
sheets.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo, 78–80
(1969).*
(JAPANESE). KINKI UNIVERSITY,
OSAKA, JAPAN.
- 9034 Muto, H., Gohshi, Y.
**Determination of oxygen in high
melting point materials by fast
neutron activation.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,
107–109 (1969).*
(JAPANESE). TOKYO SHIBAURA
ELECTRIC CO. LTD., TOKYO, JAPAN.
- 9035 Miyagawa, K., Ichijima, I., Asai,
A., Nomura, E., Mishima, I.
**Determination of oxygen in steel
by neutron activation analysis.**
Proceedings Japan Conference
- Radioisotopes, 9th, Tokyo,
110–112 (1969).*
(JAPANESE). FUJI IRON AND STEEL
CO., LTD., HIROHATA, JAPAN.
- 9036 Inamoto, K., Sato, H.
**Use of post-activation technique
to trace the origin of aluminate
inclusion in steel.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,
238–240 (1969).*
(JAPANESE). NIPPON KOKAN
KABUSHIKI KAISYA, TOKYO, JAPAN
- 9037 Horiguchi, Y., Nagatsuka, S.,
Suzuki, H., Nakajima, K., Okano,
Y., Tabushi, K.
**Application of rare earth chelate
compounds as activable tracer to
tidal river flow study.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,
241–243 (1969).*
(JAPANESE). TOKYO METROPOLITAN
ISOTOPE RESEARCH CENTER, TOKYO,
JAPAN
- 9038 Kobayashi, M., Enomoto, S., Bando,
S., Tominaga, H., Wada, N.,
Maeda, S., Kawakami, Y., Senoo,
M., Tachikawa, N., Takenaga, T.,
Hashimoto, M.
**Activable tracer study of
distribution of insecticide
sprayed from a helicopter.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,
244–246 (1969).*
(JAPANESE). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKYO, JAPAN.
- 9039 Furusawa, T., Yaguchi, G.
**Application of radioisotopes for
detection of chemical reaction.**
*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,
247–249 (1969).*
(JAPANESE). JAPAN.
- 9040 Yamada, Y., Miyaguchi, M., Iwata,
S., Tamai, C., Uehara, S.,
Takeuchi, T.
**Activation analysis of various
materials related to the Yusho
(chlorbiphenyl poisoning).**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
439–441 (1969).

(JAPANESE). KYUSHU UNIVERSITY,
FUKUOKA, JAPAN.

9041 Hamaguchi, H.

**Recent developments in the
activation analysis in Japan.**

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
516–523 (1969).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF TOKYO,
JAPAN.

9042 Wainerdi, R. E., Yule, H. P.,
Fite, L. E.

**Special considerations in the
large scale analysis of
biomedical samples by automated
nuclear activation methods.**

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
524–534 (1969).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY AND TEXAS INSTITUTE
FOR REHABILITATION AND RESEARCH,
BAYLOR UNIVERSITY COLLEGE OF
MEDICINE.

9043 Meinke, W. W.

**Activation analysis. Present
status and future potential.**

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
535–537 (1969).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.

9044 Jervis, R. E.

**Recent developments in forensic
activation analysis applications.**

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
547–548 (1969).

(ENGLISH). DEPARTMENT OF
CHEMICAL ENGINEERING AND APPLIED
CHEMISTRY, UNIVERSITY OF TORONTO,
CANADA.

9045 Kato, M., Kobayashi, M., Ohno, A.,
Nagumo, T., Takano, K., Ijima,

H., Ohno, H., Goto, M.
**Present status of isotope
applications in Japanese
industry.**

*Proceedings Japan Conference
Radioisotopes, 9th, Tokyo,*
552–559 (1969).

(ENGLISH). INSTITUTE OF
INDUSTRIAL SCIENCE, UNIVERSITY OF
TOKYO, TOKYO, JAPAN.

9046 Partington, D., Crumpton, D.,
Hunt, S. E.

**Determination of the energy
dependence of the $^{63}\text{Cu}(n,2n)^{62}\text{Cu}$
and $^{27}\text{Al}(n,p)^{27}\text{Mg}$ cross sections,
and their application to the
measurement of 14 MeV neutron
fluxes.**

Analyst, 95, 257–259 (March 1970).

(ENGLISH). PHYSICS DEPARTMENT,
UNIVERSITY OF ASTON IN
BIRMINGHAM, BIRMINGHAM, ENGLAND.

9047 Brookes, A., Townshend, A.

**Studies on the analytical
chemistry of hafnium and
zirconium. Part I. A review of
methods for the determination of
hafnium and zirconium in
admixture.**

Analyst (London), 95, No. 1131,
529–534 (1970).

(ENGLISH). CHEMISTRY DEPARTMENT,
THE UNIVERSITY, BIRMINGHAM,
ENGLAND.

9048 Zmijewska, W.

**Substoichiometric separation and
determination of tantalum by
neutron activation.**

Chem. Anal. (Warsaw), 15, No. 3,
471–478 (1970).

(ENGLISH) (POLISH SUMMARY).
DEPARTMENT OF ANALYTICAL
CHEMISTRY, INSTITUTE OF NUCLEAR
RESEARCH, WARSZAWA, POLAND.

9049 Doty, W. H., Munson, A. W., Wood,
D. E., Schneider, E. L.

**Comparative analysis of variance
of the Kjeldahl nitrogen and a
neutron activation nitrogen
technique.**

J. Assn. Offic. Anal. Chem., 53,
No. 4, 801–803 (1970).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). RALSTON PURINA CO.,
ST. LOUIS, MISSOURI AND KAMAN
SCIENCE, COLORADO SPRINGS,
COLORADO.

9050 Thomas, J. P.

**Oxygen determination in silicon by
activation by alpha particles.**

LYCEN-7016, 75p. (March 1970).

(FRENCH). UNIVERSITE DE LYON.

9051 Brar, S. S., Nelson, D. M., Kline,

J. R., Gustafson, P. F.,

Kanabrocki, E. L., Moore, C. E.,

Hattori, D. M.

**Instrumental analysis for trace
elements present in Chicago Area
surface air.**

J. Geophys. Research, **75**,

2939-2945 (20 May 1970).

(ENGLISH). RADIOLOGICAL PHYSICS

DIVISION, ARGONNE NATIONAL

LABORATORY, ARGONNE, ILLINOIS,

LOYOLA UNIVERSITY, CHICAGO AND

DEPARTMENT OF AIR POLLUTION

CONTROL, CHICAGO, ILLINOIS.

9052 Rancitelli, L. A., Perkins, R. W.

**Trace element concentrations in
the troposphere and lower
stratosphere.**

J. Geophys. Research, **75**,

3055-3064 (20 May 1970).

(ENGLISH). RADIOLOGICAL SCIENCES

DEPARTMENT, BATTELLE MEMORIAL

INSTITUTE, PACIFIC NORTHWEST

LABORATORY, RICHLAND, WASHINGTON.

9053 Palmer, H. E., Pailthorp, K. G.,

Sheen, E. M., Nelp, W. B.,

Murano, R.

**Instrumentation for in vivo
neutron activation analysis in
humans.**

IEEE Trans. Nucl. Sci., **17**, No. 1,

138-143 (1970).

(ENGLISH). PACIFIC NORTHWEST

LABORATORIES, BATTELLE MEMORIAL

INSTITUTE, RICHLAND, AND

UNIVERSITY OF WASHINGTON MEDICAL

SCHOOL, SEATTLE, WASHINGTON.

9054 Pagden, I. M. H., Pearson, G. J.,

Beck, V. N.

A semi automated computer system

**for gamma ray spectrum analysis
of thermal neutron-activated
samples.**

IEEE Trans. Nucl. Sci., **17**, No. 1,

211-217 (1970).

(ENGLISH). ATLANTIC

OCEANOGRAPHIC LABORATORY, BEDFORD

INSTITUTE, DARTMOUTH, NOVA

SCOTIA.

9055 Duffey, D., Elkady, A., Senftle,
F. E.

**Analytical sensitivities and
energies of thermal-neutron-capture
gamma rays.**

Nucl. Instruments Methods, **80**,

149-171 (1970).

(ENGLISH). UNIVERSITY OF

MARYLAND, COLLEGE PARK, MARYLAND

AND U.S. GEOLOGICAL SURVEY,

WASHINGTON, D.C.

9056 Murozumi, M., Patterson, C. C.

**Neutron activation analysis of
chlorine in Arctic and Antarctic
snow strata. Determination of
chemical components at the ppb
level in both polar snow strata.
I.**

Bunseki Kagaku, **19**, No. 8,

1049-1056 (1970).

(JAPANESE) (ENGLISH SUMMARY).

MURORAN INSTITUTE OF TECHNOLOGY,

MIZUMOTO-CHO, MURORAN-SHI, AND

CALIFORNIA INSTITUTE OF

TECHNOLOGY, PASADENA, CALIF.

9057 Murozumi, M., Nakamura, S.,
Patterson, C. C.

**Determination of sodium in Arctic
and Antarctic snow strata.**

**Comparison between neutron
activation analysis and atomic
absorption analysis after
application of freezing
concentration to samples.**

**Determination of chemical
components at the ppb level in
both polar snow strata. II.**

Bunseki Kagaku, **19**, No. 8,

1057-1063 (1970).

(JAPANESE) (ENGLISH SUMMARY).

MURORAN INSTITUTE OF TECHNOLOGY,

MIZUMOTO-CHO, MURORAN-SHI, AND

CALIFORNIA INSTITUTE OF

TECHNOLOGY, PASADENA, CALIF.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9058 Mazitov, B. S., Mukhammedov, S.
Activation determination of niobium.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.-Mat. Nauk, **14**, No. 1, 56–58 (1970).
 (RUSSIAN). RUSSIA.
of trace impurities in highly pure germanium.
Radiokhimiya, **12**, No. 1, 133–137 (1970).
 (RUSSIAN). RUSSIA.
- 9059 Prouza, Z., Rakovic, M.
The selective activation with neutrons and a mathematical analysis of decay curves in gold determination.
Jad. Energ., **16**, 56–59 (1970).
 (CZECHOSLOVAKIAN) (ENGLISH SUMMARY). THE MEDICAL PHYSICS AND NUCLEAR MEDICINE CATHEDRAL OF THE MEDICAL FACULTY OF THE CHARLES UNIVERSITY, PRAGUE, CZECHOSLOVAKIA.
- 9060 Yoshida, H., Yonezawa, C.
Determination of uranium in zirconium and zircaloy by neutron activation.
Bunseki Kagaku, **19**, 238–241 (February 1970).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, NAKA-GUN, IBARAKI-KEN, JAPAN.
- 9061 Kishikawa, T., Shinomiya, C.
Optimum geometric position for radioactivation by fast neutrons from a neutron generator.
Bull. Chem. Society Japan, **43**, No. 4, 1056–1061 (1970).
 (ENGLISH). DEPARTMENT OF INDUSTRIAL CHEMISTRY, FACULTY OF ENGINEERING, KUMAMOTO UNIVERSITY, KUROKAMI-CHO, KUMAMOTO, JAPAN.
- 9062 Oka, Y., Pung, T. C., Saito, T.
Determination of niobium by photon activation analysis based on internal-reference method.
Bull. Chem. Society Japan, **43**, No. 4, 1083–1087 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, KATAHIRA-CHO, SENDAI, JAPAN.
- 9063 Razumova, G. N., Shuba, I. D., Vasilev, I. Y.
Neutron activation determination
- 9064 Rebagay, T. V., Ehmann, W. D.
Simultaneous determination of zirconium and hafnium in standard rocks by neutron activation analysis.
J. Radioanal. Chem., **5**, No. 1, 51–60 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 9065 Ehmann, W. D., Morgan, J. W.
Oxygen, silicon and aluminum in Apollo 11 rocks and fines by 14 MeV neutron activation.
Proceedings of the Apollo 11 Lunar Science Conference, **2**, 1071–1079 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 9066 Nadkarni, R. A., Ehmann, W. D., Burdick, D.
Investigations on the relative transference of trace elements from cigarette tobacco into smoke condensate.
Tobacco Science, **14**, 37–39 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY AND EASTERN UTILIZATION RESEARCH AND DEVELOPMENT DIVISION, ARS, U.S. DEPARTMENT OF AGRICULTURE, PHILADELPHIA, PA.
- 9067 Furuya, K., Koizumi, M., Kikuchi, T.
Determination of microamount of oxygen in zone refined iron by the 14 MeV neutron activation method.
Bunseki Kagaku, **19**, No. 6, 775–780 (1970).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF INDUSTRIAL CHEMISTRY, FACULTY OF

ACTIVATION ANALYSIS—ACCESSION NUMBERS

ENGINEERING, UNIVERSITY OF TOKYO,
BUNKYO-KU, TOKYO, JAPAN.

CHEMICAL ENGINEERING, UNIVERSITY
OF TORONTO, TORONTO, ONTARIO,
CANADA.

- 9068 Tamai, T., Hashimoto, T.,
Matsushita, R., Iwata, S.
**Neutron activation analysis of
iodine in tellurium compounds
using Ge(Li) detector.**
Bunseki Kagaku, **19**, No. 4, 502–507
(1970).
(JAPANESE) (ENGLISH SUMMARY).
RESEARCH REACTOR INSTITUTE, KYOTO
UNIVERSITY, KUMATORI-CHO,
SENNAN-GUN, OSAKA-FU, JAPAN.
- 9069 Rogers, V. C.
**Detection limits for gamma-ray
spectral analysis.**
Anal. Chem., **42**, 807–808 (June
1970).
(ENGLISH). DEPARTMENT OF PHYSICS
AND CHEMICAL ENGINEERING, BRIGHAM
YOUNG UNIVERSITY, PROVO, UTAH.
- 9070 Wangen, L. E., Isenhour, T. L.
**Semiquantitative analysis of mixed
gamma-ray spectra by computerized
learning machines.**
Anal. Chem., **42**, 737–743 (June
1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON.
- 9071 Pierce, T. B.
**The examination of surfaces by
scanning with charged-particle
beams.**
Proc. Soc. Anal. Chem., **7**, 59–60
(March 1970).
(ENGLISH). ANALYTICAL SCIENCES
DIVISION, ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL, DIDCOT,
BERKSHIRE, ENGLAND.
- 9072 Perkins, A. K., Jarvis, R. E.
**Neutron activation applied to
identification of biological and
related materials of forensic
importance.**
*Proceedings of Can. Soc. of
Forensic Science*, Vol. **1**, Paper
10, 11p. (1962).
(ENGLISH). DEPARTMENT OF
- 9073 Morgan, J. W., Ehmann, W. D.
**Instrumental activation techniques
for the analysis of meteorites
and lunar samples.**
American Laboratory, 19–22, 24–28,
30–31 (September 1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 9074 Chen, N. S., Fremlin, J. H.
**Determination of carbon and
nitrogen by deuteron-induced
prompt gamma radiations.**
Radiochem. Radioanal. Letters, **4**,
No. 6, 365–374 (1970).
(ENGLISH). DEPARTMENT OF
PHYSICS, UNIVERSITY OF
BIRMINGHAM, BIRMINGHAM, ENGLAND.
- 9075 Chen, N. S.
**Activation analysis of carbon in
high oxygen content materials.**
Radiochem. Radioanal. Letters, **4**,
No. 6, 375–380 (1970).
(ENGLISH). DEPARTMENT OF
PHYSICS, UNIVERSITY OF
BIRMINGHAM, BIRMINGHAM, ENGLAND.
- 9076 Schmitt, R. A., Smith, V.
**Identification of origin of glass
by neutron activation analysis in
a forensic case.**
J. Forensic Sciences, **15**, No. 2,
252–260 (April 1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY AND RADIATION CENTER,
OREGON STATE UNIVERSITY,
CORVALLIS, OREGON.
- 9077 Guinn, V. P., Wainerdi, R. E.
Nuclear activation analysis.
Science, **147**, 415–419 (22 January
1965).
(ENGLISH). GENERAL ATOMIC, SAN
DIEGO CALIF., AND AGRICULTURAL
AND MECHANICAL COLLEGE OF TEXAS,
COLLEGE STATION, TEXAS.
- 9078 Glass, A. L., Tankins, E. S.
Neutron activation analysis.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Progress report.**
AD-635692, 10p. (May 24, 1966).
(ENGLISH). NAVAL AIR ENGINEERING CENTER, PHILADELPHIA, PENNSYLVANIA.
- 9079 Krishnan, S. S., Erickson, N. E.
Estimation of arsenic in biological materials by neutron activation analysis.
J. Forensic Sciences, **11**, 89-94 (1966).
(ENGLISH). ATTORNEY GENERALS LABORATORY, TORONTO, ONTARIO, CANADA.
- 9080 Guinn, V. P.
Neutron activation analysis with research reactors.
Trans. Amer. Nucl. Soc., **9**, 588 (1966).
(ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIFORNIA.
- 9081 Krishnan, S. S., Nichol, R. C.
Identification of bullet holes by neutron activation analysis and autoradiography.
J. Forensic Sciences, **13**, 519-527 (1968).
(ENGLISH). THE CENTRE OF FORENSIC SCIENCES, PROVINCE OF ONTARIO, TORONTO, CANADA.
- 9082 Guinn, V. P., Graber, F. M., Fleishman, D. M.
Ge(Li) gamma-ray spectrometry as a pilot for NaI(Tl) gamma-ray spectrometry.
Talanta, **15**, 1159-1163 (1968).
(ENGLISH) (GERMAN AND FRENCH SUMMARIES). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.
- 9083 Leddicotte, G. W., Navarrete Tejero, M.
Separation and determination of traces of bromine in potable water by activation analysis.
Rev. Soc. Quim. Mex., **12**, 223A-224A (1968).
(SPANISH) (ENGLISH SUMMARY). RESEARCH REACTOR, UNIVERSITY OF MISSOURI AND LABORATORIO NUCLEAR, UNAM MEXICO.
- 9084 Santos, G. G., Torralba, O.
The determination of ^{68}Zn - ^{64}Zn ratio in sphalerite by non-destructive activation analysis.
Philippines Nucl. J., **11**, No. 1, 123-128 (1969).
(ENGLISH). PHILIPPINE ATOMIC RESEARCH CENTER, PHILIPPINES.
- 9085 Ackermann, R. J., Kojima, M., Rauh, E. G., Walters, R. R.
The thermodynamics of vaporization of cerium.
J. Chem. Thermodyn., **1**, 527-533 (November 1969).
(ENGLISH). CHEMISTRY DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 9086 Higuchi, H., Nagasawa, H.
Partition of trace elements between rock-forming minerals and the host volcanic rocks.
Earth Planetary Science Letters, **7**, 281-287 (December 1969).
(ENGLISH). INSTITUTE FOR ATOMIC ENERGY, RIKIKYO UNIVERSITY, YOKOSUKA, JAPAN, AND FACULTY OF SCIENCE, GAKUSHUIN UNIVERSITY, MEJIRO, TOSHIMA-KU, TOKYO, JAPAN.
- 9087 Turner, G.
Thermal histories of meteorites by the ^{39}Ar - ^{40}Ar method.
Meteorite Research, 407-417, Millman, P.M. (Ed.), Proceedings of a Symposium on Meteorite Research, Vienna, Austria, 7-13 August 1968, Reidel Publishing Co., Dordrecht, Holland (1969).
(ENGLISH). DEPARTMENT OF PHYSICS, UNIVERSITY OF SHEFFIELD, SHEFFIELD, ENGLAND.
- 9088 Volokh, V. A., Drynkin, V. I., Leipunskaya, D. I.
Possible determination of aluminum and silicon contents during activation logging with polonium-beryllium and polonium-boron sources.
Tr. Vses. Nauch.-Issled. Inst. Yad. Geofiz. Geokhim., No. 7, 142-148 (1969).
(RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9089 Simon, L., Sok, V., Filgas, R.
Determination of fluorine in fluorite-bearing ores and concentrates by neutron activation analysis.
Rudy, 17, No. 11, 339-342 (1969).
 (CZECHOSLOVAKIAN). HORNICKY
 USTAV CSAV, PRAHA, CZECHOSLOVAKIA.
- 9090 Nikitin, V. N., Kurenko, E. Y., Biryukov, V. F., Siksin, V. S., Davydov, M. G., Shvartsman, N. E., Topunov, V. V., Chernyakov, V. V.
Possible use of a gamma activation method for determining the copper content in copper ores.
Tr. Vses. Nauch.-Issled. Inst. Yad. Geofiz. Geokhim., No. 7, 156-163 (1969).
 (RUSSIAN). RUSSIA.
- 9091 Adami, F.
Mode of operation and application of a neutron tube in activation analysis.
GIT (Glas-Instrum.-Tech.) Fachz. Lab., 13, No. 7, 747-750 (1969).
 (GERMAN) (ENGLISH AND FRENCH SUMMARIES). PHILIPS INDUSTRIE ELEKTRONIK GMBH, HAMBURG.
- 9092 Haskin, L. A.
Neutron activation analysis for rare earths (lanthanides and yttrium) on simulated lunar samples.
 NASA-CR-101903, 80p. (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.
- 9093 Gijbels, R., Hoste, J., Speecke, A.
The industrialisation of 14 MeV neutron activation analysis for oxygen in steel.
 EUR-4297e, 28p. (1969).
 (ENGLISH). UNIVERSITY OF GHENT, GHENT, BELGIUM.
- 9094 Maletskos, C. J.
Progress report IV (on neutron activation analysis), annual, May 1, 1969-April 30, 1970.
 NYO-3778-9, 81p. (1970).
 (ENGLISH). NEW ENGLAND DEACONESS HOSPITAL, CANCER RESEARCH INSTITUTE, BOSTON, MASSACHUSETTS.
- 9095 Brodzinski, R. L., Rancitelli, L. A.
The measurement of radiation exposure of astronauts by radiochemical techniques. Determination of the radionuclide content of feces and urine from astronauts engaged in space flight. Quarterly research report to the NASA manned spacecraft center, July 1-October 5, 1969.
 BNWL-1183-2, 30p. (15 October 1969).
 (ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORIES, RICHLAND, WASHINGTON.
- 9096 Massachusetts Institute of Technology
Chemistry progress report.
 MIT-905-154, 61p. (December 31, 1969).
 (ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS.
- 9097 Miller, R. A., Khakimov, M., Yuldashev, A. Y., Muratova, U. M., Sadykov, M. M., Usmanov, K. U.
Application of gamma activation method for quantitative determination of nitrogen and phosphorous in the modified cellulose.
Vysokomol. Soedin., Ser. A, 12, No. 4, 957-959 (1970).
 (RUSSIAN) (ENGLISH SUMMARY). TASHKENT STATE UNIVERSITY, RESEARCH INSTITUTE OF CHEMISTRY AND TECHNOLOGY OF COTTON CELLULOSE, TASHKENT.
- 9098 Kakas, M., Marinkov, L., Draskovic, R. J.
Non-destructive radioactivation analysis of aluminum cans used for irradiations in the RA reactor at Vinca, Yugoslavia.
Radiochim. Acta, 13, No. 2, 75-81 (1970).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (ENGLISH) (GERMAN AND FRENCH SUMMARIES). BORIS KIDRIC
INSTITUTE OF NUCLEAR SCIENCES,
VINCA, YUGOSLAVIA.
- 9099 Wanke, H., Begemann, F., Vilcsek, E., Rieder, R., Teschke, F., Born, W., Quijano-Rico, M., Voshage, H., Wlotzka, F.
Major and trace elements and cosmic ray produced radioisotopes in lunar samples.
Science, **167**, 523-525 (30 January 1970).
(ENGLISH). MAX PLANCK INSTITUT FÜR CHEMIE, OTTO-HAHN INSTITUT, MAINZ, GERMANY.
- 9100 Herr, W., Herpers, U., Hess, B., Skerra, B., Wolfle, R.
Determination of ^{53}Mn by neutron activation and other miscellaneous studies on lunar dust.
Science, **167**, 747-749 (30 January 1970).
(ENGLISH). INSTITUT FÜR KERNCHEMIE DER UNIVERSITÄT KÖLN, COLOGNE, GERMANY AND INSTITUT FÜR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE, JÜLICH, GERMANY.
- 9101 Konstantinov, L. V., Nikolaev, V. A., Efanov, A. I., Ustinov, A. A.
Certain experimental neutron—physical characteristics of the SO-1 breeder.
Soviet Atomic Energy, **28**, No. 1, 57-59 (January 1970).
(ENGLISH TRANSLATION). RUSSIA.
- 9102 Yakovlev, Y. V., Stepanets, O. V.
Substoichiometric radioactivation determination of cadmium and copper in yttrium by means of displacement extraction chromatography.
J. Anal. Chem., USSR, **25**, No. 3, 496-497 (March 1970).
(ENGLISH TRANSLATION). V.I. VERNADSKII INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES OF THE USSR, MOSCOW.
- 9103 Mezhiborskaya, K. B., Krasikova, M. I.
Neutron activation method for determining macroamounts of tungsten by means of ampule sources.
J. Anal. Chem., USSR, **25**, No. 3, 500-502 (March 1970).
(ENGLISH TRANSLATION). RUSSIA.
- 9104 Jeffery, P. G., Bakes, J. M.
The determination of fluorine by neutron activation analysis.
Proc. Soc. Anal. Chem., **7**, 71 (April 1970).
(ENGLISH). WARREN SPRING LABORATORY, STEVENAGE, HERTS.
- 9105 Randerson, D.
The distribution of Mn and Br in an urban area as revealed through activation analysis.
Atmos. Environ., **4**, No. 3, 249-258 (1970).
(ENGLISH). TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 9106 Flaherty, J. P., Eldridge, H. B.
Neutron activation analysis of residual oil for vanadium.
Appl. Spectroscopy, **24**, No. 5, 534-538 (1970).
(ENGLISH). PHYSICS DEPARTMENT, UNIVERSITY OF WYOMING, LARAMIE, WYOMING.
- 9107 Maekawa, T., Matsuo, M., Yoshida, H., Hayashi, K., Okamura, S.
Radioactivation analysis studies of polymerization reactions. (1) Solution polymerization of styrene by radical catalysis.
Polymer, **11**, No. 7, 342-350 (1970).
(ENGLISH). DEPARTMENT OF POLYMER CHEMISTRY, KYOTO UNIVERSITY, KYOTO, JAPAN.
- 9108 Maekawa, T., Matsuo, M., Yoshida, H., Hayashi, K., Okamura, S.
Radioactivation analysis studies of polymerization reactions. (2) Initiation mechanism in radiation induced radical polymerization of styrene.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Polymer*, **11**, No. 7, 351–358
(1970).
(ENGLISH). DEPARTMENT OF POLYMER
CHEMISTRY, KYOTO UNIVERSITY,
KYOTO, JAPAN.
- 9109 Miller, J.
**Substoichiometric isotope dilution
analysis of copper traces in zinc
by adsorptive sampling.**
J. Radioanal. Chem., **4**, 35–44
(January 1970).
(ENGLISH). INSTITUTE OF ISOTOPES
OF THE HUNGARIAN ACADEMY OF
SCIENCES, BUDAPEST, HUNGARY.
- 9110 Alimarin, I. P., Miklishanskii, A.
Z., Yakovlev, Y. V.
**Neutron activation analysis of
rare earth impurities in metallic
uranium.**
J. Radioanal. Chem., **4**, No. 1,
45–51 (1970).
(ENGLISH). THE VERNADSKI
INSTITUTE OF GEOCHEMISTRY AND
ANALYTICAL CHEMISTRY OF THE
ACADEMY OF SCIENCES OF THE USSR,
MOSCOW.
- 9111 Alimarin, I. P., Miklishanskii, A.
Z., Yakovlev, Y. V.
**Neutron activation analysis of
rare earth impurities in europium
oxide.**
J. Radioanal. Chem., **4**, No. 1,
75–80 (1970).
(ENGLISH). THE VERNADSKI
INSTITUTE OF GEOCHEMISTRY AND
ANALYTICAL CHEMISTRY OF THE
ACADEMY OF SCIENCES OF THE USSR,
MOSCOW.
- 9112 Salamon, A.
**Activation analysis of gallium in
tungsten.**
J. Radioanal. Chem., **4**, No. 1,
81–86 (1970).
(ENGLISH). RESEARCH INSTITUTE
FOR TECHNICAL PHYSICS OF THE
HUNGARIAN ACADEMY OF SCIENCES,
BUDAPEST, HUNGARY.
- 9113 Nozaki, T., Yatsurugi, Y.,
Akiyama, N.
**Charged particle activation
analysis for carbon, nitrogen,
and oxygen in semiconductor
silicon.**
J. Radioanal. Chem., **4**, No. 1,
87–98 (1970).
(ENGLISH). INSTITUTE OF PHYSICAL
AND CHEMICAL RESEARCH,
YAMATO-MACHI, SAITAMA, JAPAN.
- 9114 Barrandon, J. N., Quaglia, L.,
Debrun, J. L., Cuypers, M.,
Robaye, G.
**Use of low-energy deuterons and
tritons for determining carbon
and oxygen present on the surface
of metal samples.**
J. Radioanal. Chem., **4**, No. 1,
115–126 (1970).
(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE D'ANALYSE PAR
ACTIVATION DU CENTRE D'ETUDE DE
CHIMIE METALLURGIQUE, VITRY,
SEINE, FRANCE, LABORATOIRE VAN DE
GRAAFF AND LABORATOIRE
D'APPLICATION DES RADIOELEMENTS,
UNIVERSITE DE LIEGE, BELGIQUE.
- 9115 Op De Beeck, J.
**A compilation of second order
reaction interferences. Part II.**
J. Radioanal. Chem., **4**, 137–155
(January 1970).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, UNIVERSITY OF GHENT,
GHENT, BELGIUM.
- 9116 Lima, F. W., Silva, C. M.
**Determination of arsenic in
germanium by the combination of
isotope dilution and activation
analysis.**
J. Radioanal. Chem., **4**, No. 2,
197–205 (1970).
(ENGLISH). RADIOCHEMISTRY
DIVISION, INSTITUTO DE ENERGIA
ATOMICA, SAO PAULO, BRASIL.
- 9117 Graber, F. M., Lukens, H. R., Mac
Kenzie, J. K.
**Neutron activation analysis
determination of all 14 stable
rare earth elements with group
separation and Ge(Li)
spectrometry.**
J. Radioanal. Chem., **4**, No. 2,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 229–239 (1970).
(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.
- 9118 Laul, J. C., Case, D. R., Wechter, M. A., Schmidt–Bleek, F., Lipschutz, M. E.
An activation analysis technique for determining groups of trace elements in rocks and chondrites.
J. Radioanal. Chem., **4**, No. 2, 241–264 (1970).
(ENGLISH). DEPARTMENT OF CHEMISTRY, PURDUE UNIVERSITY, LAFAYETTE, INDIANA.
- 9119 Massart, D. L.
The elimination of potassium activity in activation analysis by isotopic exchange on columns.
J. Radioanal. Chem., **4**, No. 2, 265–270 (1970).
(ENGLISH). FARMACEUTISCH INSTITUUT, VRIJE UNIVERSITEIT BRUSSEL, BRUSSELS, BELGIUM.
- 9120 Kukula, F., Simkova, M.
Application of the group substoichiometric separation of gold, mercuric, and cupric diethyldithiocarbamates to determining them by means of activation analysis.
J. Radioanal. Chem., **4**, No. 2, 271–279 (1970).
(ENGLISH). NUCLEAR RESEARCH INSTITUTE, THE CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE, CZECHOSLOVAKIA.
- 9121 Elek, A., Bogancs, J., Szabo, E.
Substoichiometry for multielement separation by metal chelate extraction and its application in activation analysis. I. Principle and theory of the method.
J. Radioanal. Chem., **4**, No. 2, 281–288 (1970).
(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 9122 Sabbioni, E., Pietra, R., Girardi, F.
Selective removal of phosphorus–32 from activated specimens in neutron activation analysis.
J. Radioanal. Chem., **4**, No. 2, 289–297 (1970).
(ENGLISH). CHEMISTRY DEPARTMENT, JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, VARESE, ITALY.
- 9123 Draskovic, R. J., Draskovic, R. S.
Determination of impurities in marbles from different deposits in Yugoslavia by activation analysis.
J. Radioanal. Chem., **4**, No. 2, 299–303 (1970).
(ENGLISH). BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES, VINCA, YUGOSLAVIA.
- 9124 Clark, R. G., Stensland, W. A.
Service oxygen analyses with 14 MeV neutrons at Iowa State University.
J. Radioanal. Chem., **4**, No. 2, 365–373 (1970).
(ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENT OF CHEMISTRY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 9125 Hoffman, B. W., Wainerdi, R. E.
KRIS. A computer program for the least–squares resolution of gamma–ray spectra by half–life and gamma–ray energy.
J. Radioanal. Chem., **4**, 375–382 (March 1970).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 9126 Dams, R., Adams, F.
Automated identification of isotopes in neutron activated samples.
J. Radioanal. Chem., **4**, 311–323 (March 1970).
(ENGLISH). INSTITUTE OF NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 9127 Sterlinski, S.
The influence of the analyzer

ACTIVATION ANALYSIS—ACCESSION NUMBERS

channel width on the shape of the photopeak of a monoenergetic gamma line.

Nukleonika, **8**, 709–712 (1963).

(ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, DEPARTMENT OF ANALYTICAL CHEMISTRY, WARSZAWA.

J. Radioanal. Chem., **5**, No. 1, 115–121 (1970).

(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, UNIVERSITY OF GHENT, BELGIUM.

9128 Van Den Bergh, F., Adams, F., Hoste, J.

Determination of rare earths in rare-earth concentrates by neutron activation analysis.

J. Radioanal. Chem., **4**, No. 2, 347–353 (1970).

(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, BELGIUM.

Determination of lithium and its isotopic composition by activation analysis and measurement of lithium-8 and nitrogen-17.

J. Radioanal. Chem., **5**, No. 1, 123–131 (1970).

(ENGLISH). SOREQ NUCLEAR RESEARCH CENTRE, YAVNE, ISRAEL.

9129 Melsom, S.

Precision and accuracy of rare earth determinations in rock samples using instrumental neutron activation analysis.

J. Radioanal. Chem., **4**, No. 2, 355–363 (1970).

(ENGLISH). CENTRAL INSTITUTE FOR INDUSTRIAL RESEARCH, BLINDERN, OSLO, NORWAY.

Determination of short lived radionuclides in neutron activated human head-hair samples.

J. Radioanal. Chem., **5**, No. 1, 133–140 (1970).

(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, AND LABORATORY OF CRIMINOLOGY, BUDAPEST, HUNGARY.

9130 Park, K. S., Gijbels, R., Hoste, J.

Neutron activation analysis of palladium, platinum, and rhodium in lead foam.

J. Radioanal. Chem., **5**, No. 1, 31–42 (1970).

(ENGLISH). INSTITUTE FOR NUCLEAR CHEMISTRY, UNIVERSITY OF GHENT, BELGIUM.

Radiochemical separation by retention on ionic precipitate adsorption tests on 11 materials.

J. Radioanal. Chem., **5**, No. 1, 141–171 (1970).

(ENGLISH). CHEMISTRY DEPARTMENT, JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, VARESE, ITALY.

9131 Park, K. S., Gijbels, R., Hoste, J.

Radiotracer study of the reduction of noble metals by amalgamated copper powder.

J. Radioanal. Chem., **5**, No. 1, 43–49 (1970).

(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, UNIVERSITY OF GHENT, BELGIUM.

Applications of nuclear radiation and radioisotopes to textile materials and processes.

NCSC-2477-1, 72p. (November 1, 1960).

(ENGLISH). THE SCHOOL OF TEXTILES, NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING, UNIVERSITY OF NORTH CAROLINA, RALEIGH, N.C.

9132 Maenhaut, W., Op De Beeck, J.

Interference by second order reactions in activation analysis.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9152 Schmitt, R. A.
Research on elemental abundances in meteoritic and terrestrial matter. Summary progress report, September 1, 1965–September 30, 1966.
 N-67-19093, 35p. (September 30, 1966).
 (ENGLISH). GENERAL ATOMIC, SAN DIEGO, CALIFORNIA.
- 9153 Linstedt, K. D., Kruger, P.
Vanadium concentrations in Colorado River Basin Waters.
J. Amer. Water Works Assn., **61**, 85-88 (February 1969).
 (ENGLISH). UNIVERSITY OF COLORADO, BOULDER, COLORADO, AND STANFORD UNIVERSITY, STANFORD, CALIFORNIA.
- 9154 Pijck, J.
The determination of sodium, potassium, copper and iron in *Candida* species.
Sabouraudia, **7**, 90-97 (June 1969).
 (ENGLISH) (FRENCH SUMMARY). PHARMACEUTICAL INSTITUTE, LABORATORY FOR PHARMACEUTICAL CHEMISTRY, UNIVERSITY OF GHENT, BELGIUM.
- 9155 Dibbs, H. P.
The application of neutron activation analysis to the determination of copper in minerals.
 Can. Mines Br., Res. Rep. R-205, 25p. (1969).
 (ENGLISH). DEPARTMENT OF ENERGY, MINES AND RESOURCES, MINES BRANCH, OTTAWA, CANADA.
- 9156 Dibbs, H. P.
Some industrial applications of neutron activation with a neutron generator.
 Mineral Sciences Division Report MS-63-41 (CONF-9-8), 14p. (March 21, 1963).
 (ENGLISH). DEPARTMENT OF MINES AND TECHNICAL SURVEYS, MINES BRANCH, OTTAWA, CANADA.
- 9157 Molokhia, M. M., Portnoy, B.
Neutron activation analysis of trace elements in skin. II. Manganese in normal skin.
Brit. J. Dermatol., **81**, 681-684 (September 1969).
 (ENGLISH). MANCHESTER AND SALFORD HOSPITAL FOR SKIN DISEASES, MANCHESTER, ENGLAND.
- 9158 Wezranowski, E., Rewienska-Kosciuk owa, B., Zarzecka, E., Radwan, M.
Determination of exogenic inclusion content in steel by neutron activation analysis.
Freiberg. Forschungsh. B, **141**, 153-159 (1969).
 (GERMAN). INSTITUT FÜR KERNFORSCHUNG, WARSZAWA, POLAND.
- 9159 Gilbert, E. N., Pronin, V. A.
Neutron activation determination of microimpurities in selenium of high purity.
Izv. Sib. Otd. Akad. Nauk SSSR, Ser. Khim. Nauk, **2**, No. 4, 168-170 (1969).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUT OF INORGANIC CHEMISTRY, NOVOSIBIRSK, USSR.
- 9160 Bando, S., Tominaga, H., Kawakami, Y., Senoo, M.
Choice of activable tracer for spraying agricultural insecticides by helicopter.
Radioisotopes (Tokyo), **18**, 488-493 (November 1969).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, OARAI-MACHI, HIGASHIIBARAKI-GUN, IBARAKI-KEN, JAPAN.
- 9161 Perlman, I., Asaro, F.
Pottery analysis by neutron activation.
Archaeometry, **11**, 21-52 (1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA.
- 9162 Jones, R. E., Price, H. J.
Method and apparatus for automatic neutron activation analysis comprising simultaneous rotation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- of a known and an unknown sample.
U.S. Patent 3,431,416. March 4,
1969.
(ENGLISH). COLORADO SPRINGS,
COLORADO AND ALBUQUERQUE, NEW
MEXICO.
- 9163 Comar, D., Le Poec, C.
**Process and apparatus for analysis
of neutron activation of an
element in liquid samples.**
U.S. Patent 3,479,508. November
18, 1969.
(ENGLISH). ORSAY, ESSONNE,
FRANCE.
- 9164 Heydorn, K.
**Environmental variation of arsenic
levels in human blood determined
by neutron activation analysis.**
Clin. Chim. Acta, **28**, No. 2,
349–357 (1970).
(ENGLISH). ISOTOPE DIVISION,
RESEARCH ESTABLISHMENT, RISO,
ROSKILDE, DENMARK.
- 9165 Caramello Gandolfo, M. T.,
Strigazzi, A.
**Neutron activation analysis method
suitable to large screening of
cystic fibrosis.**
Panminerva Med., **11**, 582–586
(December 1969).
(ENGLISH). MARIA VITTORIA
HOSPITAL AND THE DEPARTMENT OF
EXPERIMENTAL PHYSICS,
POLYTECHNIC, TURIN, ITALY.
- 9166 Lambert, J. P. F., Margosis, M.
**Rapid determination of aluminum in
pharmaceutical dosage forms by
neutron activation.**
J. Pharm. Sci., **59**, No. 7,
1005–1007 (1970).
(ENGLISH). FOOD AND DRUG
ADMINISTRATION, DEPARTMENT OF
HEALTH, EDUCATION AND WELFARE,
WASHINGTON, D.C.
- 9167 Starnes, P. E.
**Radiometric analysis by flowing
sample through a closed system.**
U.S. Patent 3,508,048. April 21,
1970.
(ENGLISH). BERKSHIRE, ENGLAND.
- 9168 Bando, S., Kishi, H.
**Determination of copper, arsenic,
and antimony in pure phosphorus
by neutron activation analysis.**
Bunseki Kagaku, **19**, 17–22 (1970).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, OARAI-MACHI,
HIGASHIBARAKI-GUN, IBARAKI-KEN,
AND MITSUBISHI METAL MINING CO.,
LTD., CENTRAL RESEARCH
LABORATORY, KITABUKURO-MACHI,
OMIYA-SHI, SAITAMA-KEN.
- 9169 Johansen, O., Steinnes, E.
**Rapid neutron activation method
for determination of iodine in
milk.**
J. Dairy Science, **53**, No. 4,
420–422 (1970).
(ENGLISH). INSTITUTT FOR
ATOMENERGI, ISOTOPE LABORATORIES,
KJELLER, NORWAY.
- 9170 Bauer, R., Schaudy, R.
**Activation analytical
determination of elements in
meteorites. 3. Determination of
manganese, sodium, gallium,
germanium, copper and gold in 21
iron meteorites and 2
mesosiderites.**
Chem. Geol., **6**, No. 2, 119–131
(1970).
(ENGLISH). REACTOR CENTER
SEIBERSDORF, OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, SEIBERSDORF, AUSTRIA
AND ANALYTICAL INSTITUTE,
UNIVERSITY OF VIENNA, AUSTRIA.
- 9171 Hallaba, E., Azzam, R., Al-Assaly,
F.
**Activation analysis of cobalt-60
encapsulated in stainless steel
needles.**
Mikrochim. Acta, No. 3, 536–543
(1970).
(ENGLISH) (GERMAN SUMMARY).
ATOMIC ENERGY ESTABLISHMENT,
CAIRO, U.A.R.
- 9172 Samsahl, K.
**High-speed, automatic
radiochemical separations for
activation analysis in the**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- biological and medical research laboratory.**
 AE-389, 18p. (April 1970).
 (ENGLISH). AKTIEBOLAGET
 ATOMENERGI, STUDSVIK, NYKOPING,
 SWEDEN.
- 9173 Frevert, E., Muhlberger, F.
Nondestructive determination of the cement content in concrete.
Isotopenpraxis, **6**, No. 1, 18–20 (1970).
 (GERMAN). OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE GES.M.B.H., ABTEILUNG INDUSTRIEBERATUNG/ISO-TOPENANWENDUNG.
- 9174 Das, H. A., Van Raaphorst, J. G., Umans, H. J. L. M.
Routine determinations of aluminum, potassium, chromium, and tin in geochemistry by neutron activation analysis.
J. Radioanal. Chem., **4**, No. 1, 21–33 (1970).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.
- 9175 Selecki, A., Starosta, A.
The measurement of the concentration of some elements by the indirect activation method. Part II. Isotope analysis of lithium.
Isotopenpraxis, **6**, 67–69 (February 1970).
 (ENGLISH). WARSAW TECHNICAL UNIVERSITY.
- 9176 Dibbs, H. P.
Application of neutron activation analysis to the determination of copper in minerals.
CIM Transactions, **73**, 102–108 (1970).
 (ENGLISH). MINERAL SCIENCES SECTION, MINES BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, OTTAWA, CANADA.
- 9177 Blankov, E. B., Filippov, E. M.
Relationship between accuracy and sensitivity of nuclear
- geophysical methods.**
Geol. Geofiz., No. 3, 76–82 (1969).
 (RUSSIAN). RUSSIA.
- 9178 Yoshida, H., Yonezawa, C.
Determination of uranium-235/uranium-238 isotopic ratio by neutron activation.
Radioisotopes, **19**, No. 2, 73–76 (1970).
 (JAPANESE) (ENGLISH SUMMARY). DIVISION OF CHEMISTRY, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI-KEN, JAPAN.
- 9179 Ishii, D., Nakashima, M.
Activation analysis of chlorine, bromine, and iodine in biological materials.
Radioisotopes (Tokyo), **19**, 129–135 (March 1970).
 (JAPANESE) (ENGLISH SUMMARY). INSTITUTE OF TECHNO-ANALYTICAL CHEMISTRY, FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, CHIKUSA-KU, NAGOYA-SHI, JAPAN.
- 9180 Ishii, D., Jinno, K.
Determination of lithium by the use of an americium-beryllium neutron source and prompt charged particle spectrometer.
Radioisotopes, **19**, No. 3, 165–168 (1970).
 (JAPANESE). NAGOYA UNIVERSITY, NAGOYA, JAPAN.
- 9181 Takaoka, N.
Preliminary results on chemical separation of ruthenium from molybdenum and isotope analysis of ruthenium by surface ionization.
Shitsuryo Bunseki, **18**, 888–893 (March 1970).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, OSAKA UNIVERSITY, OSAKA-FU, JAPAN.
- 9182 Giroux, J., Talvat, M., Thomas, J. P., Tousset, J.
Contribution to the determination of oxygen in silicon by means of

ACTIVATION ANALYSIS—ACCESSION NUMBERS

alpha particles.

LYCEN/7060, 25p. (6 July 1970).

(FRENCH) (ENGLISH SUMMARY).

INSTITUT DE PHYSIQUE NUCLEAIRE,
UNIVERSITE DE LYON, VILLEURBANNE,
FRANCE.

measurement.

Acta Phys. Pol., **28**, No. 4,

559–561 (1965).

(ENGLISH). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH, WARSAW,
POLAND.

- 9191 Perkons, A. K., Vlossak, P. A.,
Erickson, N. E., Jervis, R. E.
**Further development to forensic
activation analysis.**
Proc. Can. Soc. Forensic Science,
3, 40–50 (1964).

(ENGLISH). ATTORNEY GENERALS
LABORATORY AND UNIVERSITY OF
TORONTO.

- 9196 Grant, L. G.
**Guide for activation analysis at
the University of Florida.**
*Engineering Progress at the
University of Florida*, **XX**, No. 6,
36p. (June 1966).

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING SCIENCES, UNIVERSITY
OF FLORIDA, GAINESVILLE, FLORIDA.

- 9192 Kosmowski, A.
**Measurements with neutrons. A
further area of application in
moisture determination and
activation analysis.**
VDI (Ver. Deut. Ing.) Nachr., **19**,
7 (October 1965).

(GERMAN). FRIESEKE UND HOEPFNER
GMBH, ERLANGEN-BRUCK, GERMANY.

- 9197 Sterlinski, S.
**The lower limit of detection for
short-lived radioisotopes.**
Nucl. Instruments Methods, **42**,
219–224 (1966).

(ENGLISH). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH, WARSAW,
POLAND.

- 9193 Jurkiewicz, L., Sterlinski, S.
**Optimum time of measuring activity
in presence of unknown
background. I. Nonsimultaneous
measurements of the sample and
background.**
Nukleonika, **9**, 697–703 (1964).

(RUSSIAN) (POLISH AND ENGLISH
SUMMARIES). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH,
WARSAW-ZERAN.

- 9198 Senftle, F. E., Sarigianis, P.,
Philbin, P. W.
**Neutron activation techniques for
precious metal exploration.**
*Geol. Surv. Can., Econ. Geol.
Rep.*, No. 26, 462–469 (1967).

(ENGLISH) (FRENCH SUMMARY). U.S.
GEOLOGICAL SURVEY, WASHINGTON,
D.C.

- 9194 Sterlinski, S.
**A method for simultaneous counting
of source and background for
short lived radioisotopes near
the determination limit.**

Nukleonika, **10**, 641–659 (1965).

(ENGLISH). DEPARTMENT OF
ANALYTICAL CHEMISTRY, INSTITUTE
OF NUCLEAR RESEARCH,
WARSAW-ZERAN.

- 9199 Simpson, H.
Neutron activation analysis.
Chem. Process. (London), **14**,
S31–S36 (May 1968).

(ENGLISH). UNITED KINGDOM ATOMIC
ENERGY AUTHORITY, ATOMIC ENERGY
RESEARCH ESTABLISHMENT, HARWELL,
DIDCOT, BERKS.

- 9195 Sterlinski, S.
**Relation between the lower limit
of detection of a radioactivity
counter and the time of**

- 9200 Gray, P. R.
**Fast neutron activation analysis
using accelerator produced
neutrons.**
*World Petrol. Congr., Proc., 7th
1967*, **9**, 31–38 (1968).

(ENGLISH) (FRENCH SUMMARY).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

PHILLIPS PETROLEUM CO.,
BARTLESVILLE, OKLAHOMA.

- 9201 Kobayashi, M., Sawai, T.
Activation analysis of metals and their alloys.
Tokyo Metropolitan Isotope Centre Annual Report, **1**, 25–32 (1962).
(FRENCH) (JAPANESE AND ENGLISH SUMMARIES). TOKYO METROPOLITAN ISOTOPE CENTRE.
- 9202 Kobayashi, M., Maeda, S., Sawai, T., Kurosu, H.
Study of the purification of aluminum by the method of zone melting and neutron activation analysis.
Tokyo Metropolitan Isotope Centre Annual Report, **1**, 33–44 (1962).
(FRENCH) (JAPANESE AND ENGLISH SUMMARIES). TOKYO METROPOLITAN ISOTOPE CENTRE.
- 9203 Albert, P., Mignonsin, E. P.
Analysis by radioactivation of high purity zirconium.
Metallurgie, **5**, No. 8, 377–384 (1964).
(FRENCH) (ENGLISH AND DUTCH SUMMARIES). C.E.C.M. – LABORATOIRE DE RADIOCHIMIE ANALYTIQUE, VITRY-SUR-SEINE, FRANCE.
- 9204 Narita, K., Taniguchi, M.
Determination of oxygen in metallic materials by the radioactivation analysis.
Kobe Steel Works Eng. Rept., **14**, 189–195 (July 1964).
(JAPANESE) (ENGLISH SUMMARY). KOBE STEEL WORKS, KOBE, JAPAN.
- 9205 Lukens, H. R., Weinrich, L. A., Guinn, V. P.
Activation analysis of blood serum. Annual progress report June 15, 1964 through June 14, 1965.
GA-6658, 52p. (August 27, 1965).
(ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9206 Nix, J. F.
A neutron activation analysis of uranium in stone meteorites.
Thesis. University of Arkansas, 79p. (1966).
(ENGLISH). UNIVERSITY OF ARKANSAS, FAYETTEVILLE, ARKANSAS.
- 9207 Gregers-Hansen, B.
Activation analysis.
Dan. Kemi, **47**, No. 3, 41–45 (1966).
(DANISH). LANDBRUGSFORSOGSAFDELINGEN, RISO.
- 9208 Rollier, M. A.
Actual trends in the use of a nuclear reactor for activation analysis.
Quad. Ric. Sci., No. 29, 7–46 (1966).
(ITALIAN) (FRENCH, ENGLISH AND GERMAN SUMMARIES). UNIVERSITA DI PAVIA. PAVIA, ITALY.
- 9209 De La Hidalga Suso, G. M.
Arsenic in steel. Analysis by neutron activation. I. Introduction.
Ensayos Invest., **1**, No. 2, 20–25 (1966).
(SPANISH) (ENGLISH SUMMARY). LDO EN CIENCIAS QUIMICAS, DEPTO. DE QUIMICA DE ESTOS LABORATORIOS, E.T.S.I.I., BILBAO, SPAIN.
- 9210 Darrall, K. G., Oldham, G.
The installation of a 14 MeV neutron generator.
Nuclear Energy, 189–194 (1966).
(ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY.
- 9211 Guinn, V. P.
Neutron activation analysis in chemistry.
GA-7272, 21p. (1966).
(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9212 Guinn, V. P.
The use of neutron activation analysis in the United States (in industry, science, medicine, and

ACTIVATION ANALYSIS—ACCESSION NUMBERS

crime investigation.

GA-7252, 15p. (1966).

(ENGLISH). GENERAL ATOMIC
DIVISION, GENERAL DYNAMICS
CORPORATION, SAN DIEGO, CALIF.

9213 Revel, G.

**Activation analysis of high purity
metals.**

Ind. Chim. Belg., **33**, Spec. Issue,
145-150 (16 November 1967).

(FRENCH). C.N.R.S., C.E.C.M.,
VITRY-SUR-SEINE, FRANCE.

9214 Sasakura, H., Kami, H., Furuhashi,
N., Okabe, H., Endo, H.

**Activation analysis of smoky
quartz.**

*Osaka Kogyo Gijutsu Shikensho
Hokoku*, No. 41, 73-76 (April
1967).

(JAPANESE) (ENGLISH SUMMARY).
INDUSTRIAL RESEARCH INSTITUTE,
OSAKA PREFECTURE, JAPAN

9215 De La Hidalga Suso, G. M.

**Arsenic in steel. Analysis by
neutron activation. II.
Experimental.**

Ensayos Invest., **1**, No. 6, 22-27
(1967).

(SPANISH) (ENGLISH SUMMARY).
DEPARTAMENTO DE METALURGIA Y
SIDERURGIA DE ESTOS LABORATORIES,
E.T.S.I.I., BILBAO, SPAIN.

9216 Senko-Bulatnyi, I. N., Bakhterev,
V. V.

**Coreless quantitative
determinations of copper in ores
by a gamma spectrometric
activation method.**

Geofiz. Sb. (Sverdlovsk), **6**, 21-27
(1967).

(RUSSIAN). RUSSIA

9217 Guinn, V. P., Pinker, R. H.

**The world-wide status of forensic
activation analysis.**

GA-7688, 24p. (February 10, 1967).

(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIF.

9218 Tajima, E., Akaiwa, H.

**Determination of iodine in rocks
by neutron activation.**

Radioisotopes, **17**, No. 12, 578-580
(1968).

(JAPANESE). GUNMA UNIVERSITY,
KIRYU, JAPAN.

9219 Motojima, K., Bando, S., Nakayama,
R.

**Activation analysis of high-purity
silicon for semiconductor use.**

Bunseki Kiki, **6**, 567-572
(September 1968).

(JAPANESE). JAPAN ATOMIC ENERGY
RESEARCH INSTITUTE, TOKYO, JAPAN

9220 Oka, Y., Kato, T.

**Study of the photoactivation
analysis. Determination of
arsenic, rubidium, and niobium.**

*Res. Rep. Lab. Nucl. Sci., Tohoku
Univ.*, **1**, No. 2, 126-128
(December 1968).

(JAPANESE). TOHOKU UNIVERSITY,
SENDAI, JAPAN.

9221 Oka, Y., Kato, T.

**Nuclear reactions and the
analytical chemistry application.**

*Res. Rep. Lab. Nucl. Sci., Tohoku
Univ.*, **1**, No. 1, 77-81 (1968).

(JAPANESE). TOHOKU UNIVERSITY,
SENDAI, JAPAN.

9222 Osawa, H.

**The vaporized amounts,
vaporization behavior and
spectral line intensity of
gadolinium in graphite powder by
arc discharge.**

Bunseki Kagaku, **17**, No. 2, 176-182
(1968).

(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY, FUJI
ELECTRIC CO. LTD., NAGASAKA,
YOKOSUKA-SHI, KANAGAWA-KEN,
JAPAN.

9223 Osawa, H.

**The vaporized amounts,
vaporization behavior and
spectral line intensity of
metallic selenium in graphite
powder by arc discharge.**

Bunseki Kagaku, **17**, No. 4, 457-463
(1968).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- (JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY, FUJI
ELECTRIC CO. LTD., NAGASAKAMEKOC
I, YOKOSUKA-SHI, KANAGAWA-KEN
JAPAN.
- 9224 Osawa, H.
**The vaporized amounts,
vaporization behavior and
spectral line intensity of gold
in graphite powder by arc
discharge.**
Bunseki Kagaku, 17, No. 9,
1108–1115 (1968).
(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY, FUJI
ELECTRIC CO. LTD., NAGASAKAMEKOC
HI, YOKOSUKA-SHI, KANAGAWA-KEN,
JAPAN.
- 9225 Blankova, T. N.
**Determination of the source of
flooding of operating wells by an
activation method.**
*Tr. Vses. Nauch.–Issled. Inst.
Yad. Geofiz. Geokhim.*, No. 1,
205–209 (1968).
(RUSSIAN). RUSSIA.
- 9226 Roels, J. F., Pauwels, L., Evrard,
C., Pollak, H.
**Detection by neutron activation of
the content of manganese in
plants.**
*Rapp. Rech., Cent. Nucl. Trico,
Kinshasa*, 16, 87–105 (1968).
(FRENCH) (ENGLISH SUMMARY).
CENTRE NUCLEAIRE TRICO AND
UNIVERSITE LOVANUM.
- 9227 Mulkay, P., Roels, J. F.
**Determination of transition
elements in 13X zeolite.**
*Rapp. Rech., Cent. Nucl. Trico,
Kinshasa*, 16, 127–137 (1968).
(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE DE CHIMIE PHYSIQUE,
ORGANIQUE UNIVERSITE LOVANUM ET
CENTRE NUCLEAIRE TRICO.
- 9228 Ordogh, M.
**Application of neutron activation
analysis in the chemical
industry.**
Atomtech. Tajek, 11, No. 3,
123–132 (1968).
(HUNGARIAN). MTA KOZPONTI
- FIZIKAI KUTATO INTEZET, KEMIAI
FOOSZTALY, HUNGARY.
- 9229 Van Erkelens, P. C.
**Activation analysis in steel
production.**
Euratom Rev., 7, 59–61 (June
1968).
(ENGLISH). BUREAU EURISOTOP,
EURATOM.
- 9230 Fukushi, N.
**A study of quantitative
determination of inorganic
impurities in polypropylene by
neutron activation–gamma
spectrometry.**
Gunma J. Liberal Arts Sci., No. 2,
29–35 (October 1968).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF GENERAL
STUDY, GUNMA UNIVERSITY,
MAEBASHI, JAPAN.
- 9231 Zaporozhets, V. M., Kedrov, A. I.
**Rocks studied by the activation of
oxygen nuclei by 14 MeV neutrons.**
*Tr. Vses. Nauch.–Issled. Inst.
Yad. Geofiz. Geokhim.*, No. 1,
182–192 (1968).
(RUSSIAN). RUSSIA.
- 9232 Sulin, V. V.
**Gamma activation method for
determining the carbon and oxygen
contents of coal samples.**
*Tr. Vses. Nauch.–Issled. Inst.
Yad. Geofiz. Geokhim.*, No.
244–255 (1968).
(RUSSIAN). RUSSIA.
- 9233 Belov, V. I., Berzin, A. K.,
Vitozhents, G. C., Sulin, V. V.
**Results of testing of the
gamma–activation method of
determining the hydrogen and
oxygen content in coal samples.**
*Tr. Vses. Nauch.–Issled. Inst.
Yad. Geofiz. Geokhim.*, No.
255–266 (1968).
(RUSSIAN). RUSSIA.
- 9234 Hamaguchi, H.
Activation analysis of metals.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Kotai Butsuri, **3**, No. 10, 514–519
(1968).

(JAPANESE). JAPAN.

as internal standard.

Kogyo Kagaku Zasshi, **72**, No. 9,
1994–1998 (1969).

(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF ENGINEERING, NAGOYA
UNIVERSITY, NAGOYA, JAPAN.

9235 Simon, L.

**Determination of fluorine in
fluorite ores and concentrates by
neutron activation analysis.**

Rudy, **16**, No. 10, 350–353 (1968).

(CZECHOSLOVAKIAN). HORNICKY USTAV
CSAV. PRAHA. CZECHOSLOVAKIA.

9241 Ishii, D., Jinno, K.

**Consecutive determination of
oxygen and nitrogen with 14 MeV
neutron activation analysis.**

Kogyo Kagaku Zasshi, **72**, No. 12,
2684–2685 (1969).

(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF ENGINEERING, NAGOYA
UNIVERSITY, NAGOYA, JAPAN.

9236 Oka, Y., Nomura, K.

**Study of the photoactivation
analysis. Determination of
arsenic and niobium.**

*Res. Rep. Lab. Nucl. Sci., Tohoku
Univ.*, **2**, No. 1, 122–127 (June
1969).

(JAPANESE). TOHOKU UNIVERSITY,
SENDAI, JAPAN.

9242 Sterlinski, S.

**The effect of shift of total
absorption peaks on the accuracy
of determination in
non-destructive activation
analysis (the case of Covells
digital method).**

Acta Phys. Pol., **35**, No. 1, 11–18
(1969).

(ENGLISH). INSTITUTE OF NUCLEAR
RESEARCH, DEPARTMENT OF
ANALYTICAL CHEMISTRY, WARSAW,
POLAND.

9237 Higashi, T., Kawai, J., Iwasaki,
S., Miyata, Y.

**Measurement of micro elements in
dental pulp by activation
analysis.**

Kokobyogakkai Zasshi, **18**, 357–361
(July 1969).

(JAPANESE). KANAGAWA DENTAL
COLLEGE, JAPAN.

9243 Krishnan, S. S.

**Advances in forensic activation
analysis in the examination of
firearm discharge residues.**

*Law Enforcement Science and
Technology*, 313–319, Cohn, S.I.
(Ed.), Illinois Institute of
Technology Research Institute,
Chicago (1969).

(ENGLISH). THE CENTRE OF
FORENSIC SCIENCES, PROVINCE OF
ONTARIO, CANADA.

9238 Albert, P.

**Properties of very high purity
metals.**

Bull. Cercle Etud. Metaux, **11**, No.
4, 197–238 (1969).

(FRENCH). CENTRE ETUDES CHIMIE
METALLURGIQUE, C.N.R.S., VITRY,
FRANCE.

9244 Meyers, P.

**Nondestructive activation analysis
of ancient coins using charged
particles and fast neutrons.**

Archaeometry, **11**, 67–83 (1969).

(ENGLISH). INSTITUUT VOOR
KERNPHYSISCH ONDERZOEK,
OOSTERRINGDIJK, AMSTERDAM.

9239 Tolmie, R. W., Thompson, C. J.

**Field equipment for neutron
activation analysis.**

*Nuclear Techniques and Mineral
Resources*, 489–505, Vienna,
International Atomic Energy
Agency (1969).

(ENGLISH). ATOMIC ENERGY OF
CANADA LIMITED, OTTAWA, CANADA.

9245 Knieriem, H. J., Herberitz, G.

**Electron microscopic findings as
well as photometric and**

9240 Ishii, D., Jinno, K.

**Activation analysis of phosphorus
with 14 MeV neutrons using barium**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

activation analytical results in experimental cardiac insufficiency caused by cobalt chloride.

Virchows Arch., B, 2, 32–46 (1969).

(GERMAN) (ENGLISH SUMMARY).
PATHOLOGISCHES INSTITUT DER
UNIVERSITÄT DUSSELDORF.

9246 Howes, A. D., Haller, W. A., Dyer, I. A.

Manganese determination in mammalian bone by neutron activation analysis.

Life Sci., 8, No. 11, Pt. 1, 583–589 (1969).

(ENGLISH). DEPARTMENTS OF ANIMAL SCIENCES AND CHEMISTRY,
WASHINGTON STATE UNIVERSITY,
PULLMAN, WASHINGTON.

9247 Yamamoto, Y., Kumamaru, T., Hayashi, Y.

Determination of sodium in manganese–zinc ferrite by neutron activation analysis.

Annual Rep. Res. Reactor Inst., Kyoto Univ., 2, 87–88 (1969).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE,
UNIVERSITY OF HIROSHIMA,
HIGASHISENDA–MACHI, HIROSHIMA,
JAPAN.

9248 Osawa, H.

The vaporized amounts, vaporization behavior and spectral line intensity of copper in graphite powder by arc discharge.

Bunseki Kagaku, 18, No. 3, 364–370 (1969).

(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY, FUJI ELECTRIC CO., LTD., NAGASAKA,
YOKOSUKA–SHI, KANAGAWA–KEN,
JAPAN.

9249 Osawa, H.

The vaporized amounts, vaporization behavior and spectral line intensity of europium in graphite powder by arc discharge.

Bunseki Kagaku, 18, No. 4, 482–488 (1969).

(JAPANESE) (ENGLISH SUMMARY).
CENTRAL RESEARCH LABORATORY, FUJI ELECTRIC CO. LTD., NAGASAKA,
YOKOSUKA–SHI, KANAGAWA–KEN,
JAPAN.

9250 Das, H. A., Van Raaphorst, J. G., Umans, H. J. L. M.

Determinations of aluminum, potassium, chromium, and tin in geochemistry by neutron activation analysis.

RCN–103, 19p. (1969).

(ENGLISH). REACTOR CENTRUM
NEDERLAND.

9252 Del Callar, A. I.

A gamma ray data reduction technique in neutron activation analysis.

Thesis. New York University,
165p. (1969).

(ENGLISH). NEW YORK UNIVERSITY,
NEW YORK, N.Y.

9253 Clark, R. S.

Iodine, uranium, and tellurium in meteorites.

Thesis. University of Arkansas,
59p. (1969).

(ENGLISH). UNIVERSITY OF
ARKANSAS, FAYETTEVILLE, ARKANSAS.

9254 Lombard, S. M.

Neutron capture gamma ray activation analysis.

Thesis. University of Washington,
97p. (1969).

(ENGLISH). UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON.

9255 Hayes, D. W.

A study of the distribution of the lanthanide elements in the gulf of Mexico using neutron activation analysis.

Thesis. Texas A and M University,
179p. (1969).

(ENGLISH). TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.

9256 Martin, J.

Neutron activation analysis and autoradiography of silicon.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

*Semicond. Silicon, Int. Symp.,
Pap. 1st, 547-557, Haberecht,
R.R. (Ed.), Electrochem. Soc.,
Inc., New York (1969).*

(GERMAN). KERntechnische
LABORATORIEN DER SIEMENS AG.

9257 Wainerdi, R. E., Uken, E. A.,
Santos, G. G., Yule, H. P.
**Neutron activation analysis and
high resolution gamma-ray
spectrometry applied to areal
elemental distribution studies.**

*Nuclear Techniques and Mineral
Resources, 507-532, Vienna,
International Atomic Energy
Agency (1969).*

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

9258 Lee, B. K., Murphy, G.
**Determination of arsenic content
of American cigarettes by neutron
activation analysis.**

*Cancer (Philadelphia), 23, No. 6,
1315-1317 (1969).*

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, IOWA STATE
UNIVERSITY OF SCIENCE AND
TECHNOLOGY, AMES, IOWA.

9259 Caldwell, R. L., Mills, W. R.,
Givens, W. W.
**Advances in nuclear geophysical
methods in oil geology and rock
analyses.**

*Nuclear Techniques and Mineral
Resources, 397-413, Vienna,
International Atomic Energy
Agency (1969).*

(ENGLISH). MOBIL RESEARCH AND
DEVELOPMENT CORPORATION, FIELD
RESEARCH LABORATORY, DALLAS,
TEXAS.

9260 Gautier, J. J.
Determination of oxygen in steel.
*Bull. Cercle Etud. Metaux, 11, No.
3, 157-195 (1969).*

(FRENCH). INSTITUT DE RECHERCHES
DE LA SIDERURGIE FRANCAISE.

9261 Geisman, J. R., Carey, W. E.,
Gould, W. A., Alban, E. K.
**Distribution of arsenic residues
by activation analysis.**

*J. Food Sci., 34, No. 3, 295-298
(1969).*

(ENGLISH). DEPARTMENT OF
HORTICULTURE, OHIO AGRICULTURAL
RESEARCH AND DEVELOPMENT CENTER,
WOOSTER.

9262 Leibetseder, J.
**Neutron activation analysis for
the determination of selenium in
biological materials.**

*Trace Mineral Studies with
Isotopes in Domestic Animals,
77-95, Vienna, International
Atomic Energy Agency (1969).*

(ENGLISH). INSTITUTE OF
PHYSIOLOGY OF THE VETERINARY
COLLEGE, VIENNA, AUSTRIA.

9263 Yamane, Y., Miyazaki, M.,
Imahashi, T., Bando, S.,
Murakami, Y., Kaji, S., Hiromori,
J., Kaiho, S.

**Studies on metals in air
pollution. II. Aluminum and
manganese amounts in deposits
measured by radioactivation
analysis and their seasonal and
geometrical variations.**

*Eisei Kagaku, 15, No. 4, 238-243
(1969).*

(JAPANESE) (ENGLISH SUMMARY).
FACULTY OF PHARMACEUTICAL
SCIENCES, UNIVERSITY OF CHIBA,
JAPAN ATOMIC RESEARCH INSTITUTE
AND CHIBA PREFECTURAL HEALTH
RESEARCH INSTITUTE.

9264 Winchester, J. W., Catoggio, J. A.
**Application of neutron activation
analysis to geochemical studies
of mineral resources.**

*Nuclear Techniques and Mineral
Resources, 435-449, Vienna,
International Atomic Energy
Agency (1969).*

(ENGLISH). DEPARTMENT OF
METEOROLOGY AND OCEANOGRAPHY,
UNIVERSITY OF MICHIGAN, ANN
ARBOR, MICHIGAN AND FACULTAD DE
CIENCIAS EXACTS, UNIVERSIDAD
NACIONAL DE LA PLATA, LA PLATA,
ARGENTINA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9265 Mollmann, H., Henke, G., Alfes, H.
The determination of Cu by activation analysis in liver punctuates in morbus Wilson.
Z. Klin. Chem. Biochem., **7**, No. 6, 647 (1969).
 (GERMAN). ANATOMISCHEN INSTITUT UND DEM INSTITUT FÜR PHARMAZEUTISCHE CHEMIE DER UNIVERSITÄT MUNSTER.
- 9266 Cloete, F. L. D., Ortega, R. F., White, E. A. D.
Detection of trace impurities in stoichiometric spinel crystals by instrumental neutron activation analysis.
J. Mater. Sci., **4**, 21–24 (January 1969).
 (ENGLISH). DEPARTMENT OF CHEMICAL TECHNOLOGY, IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, LONDON.
- 9267 Hirayama, T., Nishimura, K.
Applications of isotope tracers to chemical industries.
Radioisotopes, **18**, No. 6, 227–236 (1969).
 (JAPANESE). CENTRAL RESEARCH LABORATORY, SHOWA-DENKO CO. LTD., TOKYO, JAPAN.
- 9268 Brafman, M., Cichomska, K., Kozminska, D., Botor, J.
Application of nondestructive activation analysis for determining the current efficiency of aluminum oxide electrolysis.
Rudy Metale Niezelaz., **14**, No. 3, 142–148 (1969).
 (POLISH). POLAND.
- 9269 Emery, J. F., Strain, J. E., O Kelley, G. D., Lyon, W. S.
Non-destructive neutron activation analysis of the Allende meteorite.
Radiochem. Radioanal. Letters, **1**, 137–141 (June 1969).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 9270 Case, D. R., Laul, J. C., Lipschutz, M. E., Schmidt-Bleek, F.
Trace activation analysis of element groups with computer reduction of Ge(Li) spectra.
Radiochem. Radioanal. Letters, **1**, 143–147 (June 1969).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, PURDUE UNIVERSITY, LAFAYETTE, INDIANA.
- 9271 Peterson, S. F.
Multi-trace element neutron activation analysis using chemical separations and high-resolution gamma-ray spectroscopy.
 Thesis. Cornell University, 103p. (1969).
 (ENGLISH). CORNELL UNIVERSITY, ITHACA, NEW YORK.
- 9272 Gebauhr, W.
Trace analysis in semiconductor silicon. Comparison of methods.
Semicond. Silicon, Int. Symp., Pap. 1st, 517–533, Haberecht, R.R. (Ed.), Electrochem. Soc., Inc., New York (1969).
 (ENGLISH). SIEMENS AKTIENGESELLSCHAFT, KERNTECHNISCHE LABORATORIEN, ERLANGEN, GERMANY.
- 9273 Guinn, V. P., Bryan, D. E.
The determination of oxygen by neutron activation analysis.
 GA-9733, 11p. (September 1969).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 9274 Graber, F. M., Guinn, V. P.
Instrumental neutron activation analysis determination of mercury pesticide residues in foodstuffs.
 GA-8208, 14p. (October 1969).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.
- 9275 Guinn, V. P.
Forensic neutron activation analysis.
 GA-9677, 18p. (October 1969).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIF.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9276 Funk, W. H., Bhagat, S. K., Filby, R. H.
Trace element measurements in the aquatic environment.
Proc. Eutrophication—Biostimulation Assessment Workshop 1969, 207–221, Middlebrooks, E.J. (Ed.), University of California, Berkeley, California (1969).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON.
- 9277 Kasymov, A. K., Masagutov, V. S.
Determination of C and O content in humic acid by means of a photonuclear reaction.
Dokl. Akad. Nauk Uzb. SSR, No. 4, 18–19 (1969).
 (RUSSIAN). TASHKENTSKII GOSUNIVERSITET IM V.I. LENINA.
- 9278 Kosta, L., Ravnik, V., Dumanovic, J.
Determination of nitrogen in plant seeds by fast neutron activation analysis.
New Approaches to Breeding for Improved Plant Protein, 161–168, Vienna, International Atomic Energy Agency (1969).
 (ENGLISH). JOZEF STEFAN NUCLEAR INSTITUTE, LJUBLJANA AND INSTITUTE FOR THE APPLICATION OF NUCLEAR ENERGY IN AGRICULTURE, VETERINARY MEDICINE AND FORESTRY, ZEMUN-BELGRADE, YUGOSLAVIA.
- 9279 Hamaguchi, H.
Activation analysis of rocks for strontium and barium using a semiconductor detector.
Bunseki Kiki, 7, 703–707 (November 1969).
 (JAPANESE). TOKYO UNIVERSITY.
- 9280 Nagashima, N.
Nondestructive determination of sodium in surface oxide film of silicon by neutron activation analysis.
Bunseki Kiki, 7, 31–36 (June 1969).
 (JAPANESE). HITACHI LTD., TOKYO.
- 9281 Bogatyrev, V. K., Dubovskii, B. G., Frolov, V. V.
Neutron-irradiation method for analyzing solutions of fissionable substances.
Soviet Atomic Energy, 28, No. 2, 140–144 (February 1970).
 (ENGLISH TRANSLATION). RUSSIA.
- 9282 Morgan, J. W.
Anomalous rhenium isotopic ratio in the solar wind. Detection at the nanogram level.
Nature (London), 225, 1037–1038 (14 March 1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 9283 Nakamura, H., Amano, H., Yamabayashi, H., Kubota, M., Takahashi, S.
Purity control of target material for radioisotope production by activation technique.
Nippon Genshiryoku Gakkaishi, 12, 67–73 (February 1970).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 9284 Hislop, J. S., Wainerdi, R. E.
Extraterrestrial in situ 14 MeV neutron activation analysis.
Analytical Chemistry in Space, Volume 35, First Edition, 195–207, Wainerdi, R.E. (Ed.), International Series of Monographs in Analytical Chemistry, Pergamon Press (1970).
 (ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 9285 Danielsen, A., Steinnes, E.
A study of some selected trace elements in normal and cancerous tissue by neutron activation analysis.
J. Nucl. Med., 11, 260–264 (June 1970).
 (ENGLISH). RIKSHOSPITALET, OSLO, NORWAY AND INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9286 Henke, G., Sachs, H. W., Bohn, G.
Cadmium determination in the liver and kidneys of children and juveniles by means of neutron activation analysis.
Arch. Toxikol., **26**, No. 1, 8–16 (1970).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR PHARMAZEUTISCHE CHEMIE UND INSTITUT FÜR GERICHTLICHE MEDIZIN DER WESTFÄLISCHEN WILHELMS-UNIVERSITÄT MÜNSTER.
- 9287 Bando, S.
Activation analysis of airborne particulate matter in the Chiba area.
Genshiryoku Kogyo, **16**, No. 9, 68–72 (1970).
 (JAPANESE). JAPAN.
- 9288 Espanol, C. E., Marafuschi, A. M.
Determination of alumina in sintered aluminum powder by activation with 14 MeV neutrons.
Talanta, **17**, 653–658 (July 1970).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). FACULTAD DE INGENIERIA, UNIVERSIDAD DE BUENOS AIRES, ARGENTINA.
- 9289 Bibby, D. M., Oldham, G.
A new technique for 14 MeV neutron activation analysis in flowing systems.
Intern. J. Applied Radiation Isotopes, **21**, No. 8, 491–496 (1970).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, LOUGHBOROUGH, LEICESTERSHIRE, ENGLAND.
- 9290 Chen, N. S., Fremlin, J. H.
Activation analysis by pulsed cyclotron beams.
Nucl. Instruments Methods, **85**, No. 1, 61–67 (1970).
 (ENGLISH). DEPARTMENT OF PHYSICS, UNIVERSITY OF BIRMINGHAM, BIRMINGHAM, ENGLAND.
- 9291 Rabideau, S. W., Florin, A. E.
Anomalous water. Characterization
by physical methods.
Science, **169**, No. 3940, 48–52 (1970).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 9292 Ishii, D., Jinno, K.
Indirect activation analysis of boron based on the spectrometry of prompt alpha particles by using an americium–neutron source.
Radioisotopes, **19**, No. 4, 210–211 (1970).
 (JAPANESE). FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, NAGOYA, JAPAN.
- 9293 Bornmann, G., Henke, G., Alfes, H., Mollmann, H.
Concerning the enteral absorption of metallic mercury.
Arch. Toxikol., **26**, 203–209 (1970).
 (GERMAN) (ENGLISH SUMMARY). PHARMAKOLOGISCHES INSTITUT, INSTITUT FÜR PHARMAZEUTISCHE CHEMIE UND ANATOMISCHES INSTITUT DER UNIVERSITÄT MÜNSTER.
- 9294 Thoma, C., Holler, P., Kopineck, H. J., Sommerkorn, G., Demmeler, M., Nickel, H., Rottmann, J.
Testing slabs for internal defects containing oxides by neutron activation analysis.
 Preprint VIth International Conference on Nondestructive Testing, Volume M, 75–86 (1970).
 (GERMAN). STRANSKI-INSTITUT FÜR METALLURGIE, OBERHAUSEN, HOESCH AG HUTTENWERKE, DORMUND UND KERNFORSCHUNGSANLAGE JULICH, DEUTSCHLAND.
- 9296 Bone, S. J., Grieg, R. A., Porritt, R. E. J.
Analysis with a neutron generator.
At. Energy Aust., **13**, 24–28 (January 1970).
 (ENGLISH). CHEMISTRY DIVISION, AUSTRALIAN ATOMIC ENERGY

ACTIVATION ANALYSIS – ACCESSION NUMBERS

COMMISSION, LUCAS HEIGHTS, NEW SOUTH WALES.

9297 Schulte, K. E., Henke, G., Tjan, K. S.

Determination of metal traces in antibiotics by neutron activation analysis.

Pharm. Acta Helv., **45**, No. 2–3–4–5, 265–281 (1970).

(GERMAN). INSTITUT FÜR PHARMAZEUTISCHE CHEMIE DER WESTFALISCHEN WILHELMS UNIVERSITÄT MUNSTER.

9298 Tsai, H. T., Kato, T., Oka, Y.

Photon-activation analysis for iodine by using cesium as the internal reference element.

Bull. Chem. Soc. Japan, **43**, No. 8, 2482–2486 (1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, KATAHIRA-CHO, SENDAI.

9299 Demidov, A. M., Govor, L. I., Ivanov, V. A.

Use of a germanium detector for a neutron-radiation analysis of the content of elements and isotopes.

Soviet Atomic Energy, **28**, No. 2, 145–149 (February 1970).

(ENGLISH TRANSLATION). RUSSIA.

9300 Kodiri, S., Starchik, L. P.

Determination of elements in ores and their products by (γ , γ') activation analysis.

Industrial Laboratory, **36**, No. 2, 255–258 (February 1970).

(ENGLISH TRANSLATION). INSTITUTE OF FOSSIL FUELS.

9301 Kuusi, J.

Radioisotope neutron activation analyzer for process control analysis.

Nucl. Appl. Technol., **8**, No. 5, 465–473 (1970).

(ENGLISH). TECHNICAL UNIVERSITY OF HELSINKI, REACTOR LABORATORY, OTANIEMI, HELSINKI, FINLAND.

9302 Nomura, K., Mikami, A., Kato, T., Oka, Y.

The determination of scandium and gold in meteorites, tektites and standard rocks by neutron activation analysis with an internal-reference method.

Anal. Chim. Acta, **51**, No. 3, 399–408 (1970).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, SENDAI, JAPAN.

9303 Tsai, H. T., Kato, T., Oka, Y.

An internal-reference method for the determination of rubidium by photon-activation analysis with strontium used as the reference element.

Bull. Chem. Society Japan, **43**, No. 9, 2823–2827 (1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, KATAHIRA-CHO, SENDAI.

9304 Ortega, R. F., Lee, B. K.

Neutron activation study of ancient pigments from murals of Cholula and Teotihuacan.

Archaeometry, **12**, No. 2, 197–203 (1970).

(ENGLISH). DEPARTMENT OF NUCLEAR ENGINEERING, IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, AMES, IOWA.

9305 Tamura, M., Yamamoto, T.

Application of 14 MeV neutron generator to hydrogen determination in carbons.

Radioisotopes (Tokyo), **19**, 223–228 (May 1970).

(JAPANESE) (ENGLISH SUMMARY). GOVERNMENT RESOURCES RESEARCH INSTITUTE, KOTOBUKI-CHO, KAWAGUCHI-SHI, SAITAMA PREFECTURE.

9306 Yoshihara, K.

Studies on (γ , γ') reactions.

Recent developments and problems.
Nippon Genshiryoku Gakkaishi, **12**, 266–275 (1970).

(JAPANESE) (ENGLISH SUMMARY).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOHOKU UNIVERSITY.

AND U.S. GEOLOGICAL SURVEY,
WASHINGTON, D.C.

- 9307 Legeon, E., Bontemps, A.,
Fontenille, J., Guernet, G.
**Use of nuclear reactions to
determine the quantity of
impurities in semiconductors.**
CEA-CONF-1520, 9p. (February
1970).
(FRENCH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, CENTRE D
ETUDES NUCLEAIRES, GRENOBLE,
FRANCE.
- 9308 Senftle, F. E., Philbin, P. W.,
Sarigianis, P.
**Use of ^{252}Cf for mineral
exploration. Comparison with
accelerators for in situ neutron
activation of silver.**
Isotopes and Radiation Technology,
7, No. 4, 411-418 (Summer 1970).
(ENGLISH). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.
- 9309 Morrison, G. H.
**Multielement analysis of lunar
samples using neutron activation
and spark source mass
spectroscopy.**
Trans. Amer. Nucl. Soc., 13, 54-55
(June-July 1970).
(ENGLISH). CORNELL UNIVERSITY,
ITHACA, N.Y.
- 9310 Wasson, J. T.
**Radiochemical neutron activation
analysis of extraterrestrial
materials.**
Trans. Amer. Nucl. Soc., 13, 54
(June-July 1970).
(ENGLISH). UCLA, LOS ANGELES,
CALIF.
- 9311 Wiggins, P. F., Duffey, D.,
Senftle, F. E.
**Detection and analysis of a
titanium ore using ^{252}Cf .**
Trans. Amer. Nucl. Soc., 13, No.
2, 490 (November 1970).
(ENGLISH). U.S. NAVAL ACADEMY,
ANNAPOLIS, UNIVERSITY OF
MARYLAND, COLLEGE PARK, MARYLAND
- 9312 Guinn, V. P.
**The role of half-life in
activation analysis.**
Trans. Amer. Nucl. Soc., 13, No.
2, 544-545 (November 1970).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, IRVINE, CALIF.
- 9313 Koeman, J. H., Vink, J. A. J., De
Goeij, J. J. M.
**Causes of mortality in birds of
prey and owls in the Netherlands
in the winter of 1968-1969.**
*Tijdschrift der Nederlandse
Ornithologische Unie*, 57, No.
1-2, 67-76 (1969).
(ENGLISH AND DUTCH). INSTITUTE
OF VETERINARY PHARMACOLOGY AND
TOXICOLOGY, UNIVERSITY OF UTRECHT
AND INTERUNIVERSITAIR REACTOR
INSTITUUT AT DELFT.
- 9314 Nargolwalla, S. S.
**Application of neutron generators
to activation analysis.**
CONF-700322, *Second Oak Ridge
Conference on the Use of Small
Accelerators, for Teaching and
Research, Oak Ridge, Tennessee,
March 23-25, 1970*, 185-204
(October 1970).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, NATIONAL BUREAU OF
STANDARDS, WASHINGTON, D.C.
- 9316 Kerr, M. F.
**A study of the influence of the
hair cycle on the trace element
content of human hair by means of
neutron activation analysis.**
Thesis. University of Ottawa,
112p. (1964).
(ENGLISH). UNIVERSITY OF OTTAWA,
OTTAWA, CANADA.
- 9317 Perkons, A. K.
**Hair individualization study by
neutron activation.**
Thesis. University of Toronto,
129p. (1965).
(ENGLISH). UNIVERSITY OF
TORONTO, TORONTO, CANADA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9318 Kozuka, H., Niwase, T., Isono, H.
On the feasibility of establishing individuality by activation analysis of human hair.
Eisei Kagaku, **12**, 187–190 (August 1966).
 (JAPANESE) (ENGLISH SUMMARY). NATIONAL RESEARCH INSTITUTE OF POLICE SCIENCE, SANBAN-CHO, CHIYODA-KU, TOKYO, JAPAN.
- 9319 Shigematsu, T.
Yttrium and rare earth elements in sea water.
Nippon Kaisui Gakkaishi, **21**, 241–245 (March 1968).
 (JAPANESE) (ENGLISH SUMMARY). INSTITUTE FOR CHEMICAL RESEARCH, KYOTO UNIVERSITY, KYOTO, JAPAN.
- 9320 Nickel, H.
Use of activation analysis in the metal and steel industries.
Anwendungen der Neutronenaktivierung und Radioaktiver Indiaktoren in der Grundstoffindustrie, **12–29**, Essen, Vulkan-Verlag Dr. W. Classen (1967).
 (GERMAN). INSTITUT FÜR REAKTORWERSTOFFE, KERNFORSCHUNGSANLAGE JULICH.
- 9321 Nadkarni, R. A., Haldar, B. C.
Determination of manganese in steels by neutron activation analysis.
Indian J. Appl. Chem., **31**, No. 5–6, 175–180 (1968).
 (ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY.
- 9322 Shinbori, Y., Inoue, T.
Activation analysis of trace elements in human nails. I. Sulfur, phosphorus, and chlorine.
Sangyo Igaku, **10**, 285–288 (May 1968).
 (JAPANESE) (ENGLISH SUMMARY). ATOMIC RESEARCH LABORATORY OF MUSASHI, INSTITUTE OF TECHNOLOGY, OZENJI, YOTSUTA, KAWASAKI-SHI, JAPAN.
- 9323 Shinbori, Y.
Activation analysis of trace elements in human nails. 2.
Zinc, copper, and manganese.
Sangyo Igaku, **10**, 289–292 (May 1968).
 (JAPANESE) (ENGLISH SUMMARY). ATOMIC RESEARCH LABORATORY OF MUSASHI, INSTITUTE OF TECHNOLOGY, OZENJI, YOTSUTA, KAWASAKI-SHI, JAPAN.
- 9324 Iwata, S., Hayashi, M.
On the standard material for radioactivation analysis of chlorine.
Bunseki Kiki, **7**, 222–225 (April 1969).
 (JAPANESE). KYOTO UNIVERSITY, KYOTO, JAPAN.
- 9325 Voog, R., Millet, M., Rambaud, P., Bonnin, J., Berrard, M., Cabanel, G.
A study of the perspiration test by neutron activation undergone by adults.
Ann. Biol. Clin. (Paris), **27**, 53–63 (January–February 1969).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ENERGIE NUCLEAIRE, GRENOBLE, FRANCE.
- 9327 Pijck, J.
Contribution to the experimental determination of trace metals in biological material by activation analysis by thermal neutrons.
Verhandel. Koninkl. Vlaam. Acad. Wetenschap. Belg., **Kl. Wetenschap.**, **23**, No. 67, 1–187 (1961).
 (DUTCH). PALEIS DER ACADEMIEN, HERTOGSSTRAAT, 1, BRUSSELS, BELGIUM.
- 9328 Malvano, R., Grosso, P.
Iodine activation analysis in materials of biological interest.
J. Nucl. Biol. Med., **12**, 86–97 (April–June 1968).
 (ENGLISH). GROUP OF RADIOCHEMISTRY, SORIN CENTRO RICERCA NUCLEARE, SALUGGIA.
- 9329 Grummitt, W. E.
Determination of natural tellurium in biological tissues.
 AECL–3430, 22 (1969).
 (ENGLISH). ATOMIC ENERGY OF CANADA LTD., CHALK RIVER NUCLEAR LABORATORIES, CHALK RIVER, ONTARIO, CANADA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9330 Santos, G. G., Fite, L. E.,
Kuykendall, W. E., Wainerdi, R.
E., Bouma, A. H., Bryant, W. R.
**Preliminary study on the use of
fast neutron activation analysis
on sea floor compositional
mapping.**
*Nuclear Techniques and Mineral
Resources*, 463–487, Vienna,
International Atomic Energy
Agency (1969).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY AND
DEPARTMENT OF OCEANOGRAPHY, TEXAS
A AND M UNIVERSITY, COLLEGE
STATION, TEXAS.
- 9331 Suematsu, S.
Device for monitoring radiation.
Japanese Patent 1969–18999. 18
August 1969.
(JAPANESE). HITACHI LTD., TOKYO,
JAPAN.
- 9332 Maruyama, Y., Komiya, K., Manri,
T.
**Determination of copper, arsenic,
and mercury in cigarettes by
neutron activation analysis.**
Radioisotopes (Tokyo), 19, 250–252
(May 1970).
(ENGLISH). ATOMIC RESEARCH
LABORATORY OF MUSASHI INSTITUTE
OF TECHNOLOGY, OZENJI,
KAWASAKI-SHI, JAPAN.
- 9333 Byrne, A. R., Kosta, L.
**Studies on the distribution and
uptake of mercury in the area of
the mercury mine at Idrija,
Slovenia (Yugoslavia).**
Vestnik Skd, 17, 5–11 (1970).
(ENGLISH) (YUGOSLAVIAN SUMMARY).
THE JOZEF STEFAN INSTITUTE,
LJUBLJANA, AND FACULTY OF NATURAL
SCIENCES, UNIVERSITY OF
LJUBLJANA, YUGOSLAVIA.
- 9334 Moauro, A., Di Stefano, I.
**Rare earths determination in
uranium matrices by neutron
activation analysis.**
RT/CHI (70)13, 22p. (March 1970).
(ENGLISH). COMITATO NAZIONALE
ENERGIA NUCLEARE, ROME, ITALY.
- 9335 Brune, D.
**Charged particle and neutron
activation analysis.**
AE-397, 34–39 (May 1970).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STUDSVIK, SWEDEN.
- 9336 Isono, H., Niwase, T., Tsunoda,
N., Kozuka, H.
**Neutron activation analysis of
industrial products (II).
Antimony level in bullet leads.**
Kagaku Keisatsu Kenkyusho Hokoku,
23, No. 3, 247–252 (September
1970).
(JAPANESE) (ENGLISH SUMMARY).
CHEMICAL SECTION, NATIONAL
INSTITUTE OF POLICE SCIENCES AND
METROPOLITAN POLICE DEPARTMENT,
SCIENTIFIC CRIME LABORATORY,
TOKYO, JAPAN.
- 9337 Martin, J., Haas, E.
**Determination of carbon in silicon
by deuteron activation analysis.**
*Vortrag bei dem 2. Colloquium uber
Materialguteuntersuchungen an
Halbleiterkristallen am 21. – 23.
Okt. 1970 in Burghausen/Obb.*,
14p. (1970).
(GERMAN). RADIOCHEMISCHES
LABORATORIUM DER SIEMENS AG,
GERMANY.
- 9338 Allabergenov, B. R., Akbarov, U.,
Lobanov, E. M., Nishanov, N.
**Determination of antimony, silver,
selenium, and scandium by
non-destructive activation
analysis.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, 14, No. 3, 56–58
(1970).
(RUSSIAN). INSTITUT YADERNOI FIZIKI,
AKADEMIIA NAUK UZSSR.
- 9339 Adamek, A., Severa, F.
**Oxygen determination in
semiconductor material using 14
MeV neutron activation.**
Radiochem. Radioanal. Letters, 4,
No. 2, 215–220 (1970).
(ENGLISH). INSTITUTE OF PHYSICS,
SLOVAK ACADEMY OF SCIENCES,
BRATISLAVA, CZECHOSLOVAKIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9340 Van Grieken, R., Speecke, A.,
Hoste, J.
**On the precision of oxygen
determinations in steel by 14 MeV
neutron activation.**
Anal. Chim. Acta, **52**, No. 2,
275–280 (1970).
(ENGLISH). INSTITUTE FOR NUCLEAR
SCIENCES, GHENT UNIVERSITY,
PROEFTUINSTRAT, GHENT, BELGIUM.
- 9341 Fedoroff, M.
**Determination of sulfur in
molybdenum by activation with
thermal neutrons.**
C.R. Acad. Sci., Ser. C, **271**, No.
6, 399–402 (1970).
(FRENCH). CENTRE D'ETUDES DE
CHIMIE METALLURGIQUE DU C.N.R.S.,
VITRY-SUR-SEINE, VAL-DE-MARNE,
FRANCE.
- 9342 Cardarelli, J. A., Podolsky, S.,
Burrows, B. A.
**Analysis of stable iodinated
insulin by neutron activation
techniques.**
*Intern. J. Applied Radiation
Isotopes*, **21**, No. 9, 513–517
(1970).
(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). RADIOISOTOPE
AND MEDICAL SERVICES, BOSTON
VETERANS ADMINISTRATION HOSPITAL
AND BOSTON UNIVERSITY SCHOOL OF
MEDICINE, BOSTON, MASS.
- 9343 Heinonen, J., Hasanen, E.
**Determination of caesium in
biological material by neutron
activation analysis.**
Radiochem. Radioanal. Letters, **4**,
No. 4, 181–187 (1970).
(ENGLISH). TECHNICAL UNIVERSITY
OF HELSINKI, DEPARTMENT OF
TECHNICAL PHYSICS, OTANIEMI,
HELSINKI, FINLAND.
- 9344 Verkerk, B.
**Chemical investigations at the
Reactor Centrum Nederland.**
Chem. Weekbl., **66**, No. 22, 25–31
(1970).
(SWEDISH). REACTOR CENTRUM,
NETHERLANDS.
- 9345 Rozhkov, I. S., Rakovskii, E. E.,
Berenshtein, L. E., Serebryanyi,
B. L., Shilin, N. L.
**Irregularity in the distribution
of gold in rocks and minerals
(illustrated by radioactivation
analysis data).**
Dokl. Akad. Nauk SSSR, **191**, No. 4,
927–930 (1970).
(RUSSIAN). TSENTRALNYI
NAUCHNO-ISSLEDOVATELSKII,
GORNORAZVEDOCHNYI INSTITUT
TSVETNYKH, REDKIKH I BLAGOROD-
NYKH METALLOV, MOSKVA.
- 9346 Persiani, C., Cosgrove, J. F.
**The determination of sulfur and
chlorine in phosphors by fast
neutron activation analysis.**
Radiochem. Radioanal. Letters, **4**,
No. 4, 203–213 (1970).
(ENGLISH). BAYSIDE RESEARCH
CENTER OF GENERAL TELEPHONE AND
ELECTRONICS LABORATORIES, INC.,
BAYSIDE, NEW YORK.
- 9348 Gunne, K. E., Pelekis, L. L.
**Role of statistical character of
radiation in selection of
sensitivity criteria of neutron
activation analysis.**
*Neitronoaktiv. Anal. Akad. Nauk
Latv. SSR, Inst. Fiz.*, 5–14
(1966).
(RUSSIAN). RUSSIA.
- 9349 Damburgs, N. A., Pelekis, L. L.,
Protasova, L. F.
**Decrease in flux and its
evaluation during neutron
activation analysis.**
*Neitronoaktiv. Anal. Akad. Nauk
Latv. SSR, Inst. Fiz.*, 15–26
(1966).
(RUSSIAN). RUSSIA.
- 9350 Mednis, I. V., Pelekis, L. L.
**Activation analysis of oxygen with
reactor neutrons.**
*Neitronoaktiv. Anal. Akad. Nauk
Latv. SSR, Inst. Fiz.*, 27–38
(1966).
(RUSSIAN). RUSSIA.
- 9351 Klisane, D. A., Pelekis, Z. E.,
Pelekis, L. L.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Neutron-activation analysis for Na, Mn, and Sb in a lithium fluoride by scintillation.**
Neitronoaktiv. Anal. Akad. Nauk Latv. SSR, Inst. Fiz., 77-81 (1966).
 (RUSSIAN). RUSSIA.
- 9352 Klisane, D. A., Pelekis, Z. E., Pelekis, L. L.
Determination of Ca in lithium fluoride by neutron activation.
Neitronoaktiv. Anal. Akad. Nauk Latv. SSR, Inst. Fiz., 83-86 (1966).
 (RUSSIAN). RUSSIA.
- 9353 Bankovskii, Y. A., Veveris, O. E., Pelekis, L. L.
Neutron activation determination of Cu, Sb, and As in lithium fluoride with radiochemical separation by 8-mercapto-quinoline.
Neitronoaktiv. Anal. Akad. Nauk Latv. SSR, Inst. Fiz., 89-96 (1966).
 (RUSSIAN). RUSSIA.
- 9354 Thomas, J., Kristensen, L. V.
Arsine determination in biological material by activation analysis.
Ugeskr. Laeger., 129, 553-555 (April 27, 1967).
 (DANISH). DANMARKS TEKNISKE HOEJSKOLE, LYNGBY, DENMARK.
- 9355 Thomas, J., Kristensen, L. V.
Determination of arsenic in biological material by radioactivation analysis.
Acta Medica Scandinavica, Supplementum, 496, 23-26 (1968).
 (ENGLISH). PHYSICS DEPARTMENT, SECTION II AND CHEMISTRY DEPARTMENT A, THE TECHNICAL UNIVERSITY OF DENMARK, LYNGBY, DENMARK.
- 9356 Artyukhin, P. I., Gilbert, E. N., Pronin, V. A.
Activation analysis determination of impurities in certain semiconductor materials.
Tr. Kom. Anal. Khim. Akad. Nauk SSSR, Inst. Geokhim. Anal., 16, 169-175 (1968).
 (RUSSIAN). RUSSIA.
- 9357 Loucks, R. H., Winchester, J. W.
Particle size distribution of chlorine and bromine in mid-continent aerosols from the Great Lakes Basin.
COO-1705-5, 181p. (August 1969).
 (ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 9358 Wiernik, M.
SHUTTLE, a Fortran program for activation analysis using very short-lived nuclides.
IA-1204, 37p. (1969).
 (ENGLISH). ISRAEL ATOMIC ENERGY COMMISSION.
- 9359 Al Shahrstani, H., Jervis, R. E.
Factors involved in on stream trace activation analysis.
Nucl. Appl. Technol., 8, No. 5, 456-464 (1970).
 (ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY, UNIVERSITY OF TORONTO, TORONTO, CANADA.
- 9360 Glukhov, G. G., Gilbert, E. N.
Neutron activation determination of copper in rocks.
Radiokhimiya, 12, No. 3, 533-534 (1970).
 (RUSSIAN). RUSSIA.
- 9361 Glukhov, G. G., Gilbert, E. N., Torgov, V. G.
Radioactivation determination of tantalum in rocks and ores.
Radiokhimiya, 12, No. 3, 534-535 (1970).
 (RUSSIAN). RUSSIA.
- 9362 Damburgs, N. A., Pelekis, L. L.
Rapid non-destructive determination of traces of Dy and Sm in yttrium oxide by neutron activation.
Neitronoaktiv. Anal. Akad. Nauk

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Latv. SSR, Inst. Fiz., 65–70
(1966).

(RUSSIAN). RUSSIA.

9363 Dams, R., Robbins, J. A.

**Nondestructive activation analysis
of environmental samples. Special
Report No. 48.**

COO-1705-6, 101p. (May 1970).

(ENGLISH). GREAT LAKES RESEARCH
DIVISION, THE UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

9364 Becknell, D. E.

**Instrumental activation analysis
of rare earth mixtures.**

IS-T-360, 112p. (May 1970).

(ENGLISH). IOWA STATE
UNIVERSITY, AMES, IOWA.

9365 De Bruin, M., Korthoven, P. J. M.

**The use of an x-ray detector in
activation analysis.**

IRI-133-70-1, 8p. (1970).

(ENGLISH). INTERUNIVERSITAIR
REACTOR INSTITUUT, DELFT,
NETHERLANDS.

9366 Danis, A., Iorgulescu, A.

**Measurement of the contamination
of radiogenic argon with
atmospheric argon by
scintillation spectrometry.**

IEA-MR-33, 6p. (1970).

(ENGLISH). INSTITUTUL DE FIZICA
ATOMICA, BUCHAREST, ROMANIA.

9367 Cojocaru, V., Filby, R. H.

**Quantitative determination of
impurities in nuclear graphites
by instrumental activation
analysis.**

IFA-NR-31, 10p. (1970).

(ENGLISH). INSTITUTE OF ATOMIC
PHYSICS, BUCHAREST, ROMANIA, AND
NUCLEAR REACTOR, WASHINGTON STATE
UNIVERSITY, PULLMAN, WASHINGTON.

9368 Boddy, K.

**Progress and problems on in vivo
activation analysis.**

SRRC-34/69, CONF-690438,
*Proceedings of Conference, East
Kilbride, Glasgow, 10–11 April*

1969, 74p., Glasgow, Scottish

Research Reactor Centre (1969).

(ENGLISH). SCOTTISH RESEARCH
REACTOR CENTRE, GLASGOW,
SCOTLAND.

9369 Oda, T.

**Determination of rare earth
elements in hot spring water. No.
2. By radioactivation method.**

Onken Kiyō, 19, No. 2, 166–174
(June 1967).

(JAPANESE) (ENGLISH SUMMARY).
THE INSTITUTE OF BALNEOTHERAPEUTI
CS, KYUSHU UNIVERSITY, JAPAN.

9370 Oda, T.

**Determination of rare earth
elements in hot spring waters.
No. 3. Activation method in
combination with ion exchange
separation method.**

Onken Kiyō, 20, No. 3, 205–213
(September 1968).

(JAPANESE) (ENGLISH SUMMARY).
THE INSTITUTE OF BALNEOTHERAPEUTI
CS, KYUSHU UNIVERSITY, JAPAN.

9371 Oda, T., Kawakami, H.

**Determination of the $^{35}\text{Cl}/^{37}\text{Cl}$
ratio in Beppu hot spring water
by fast neutron activation
analysis.**

*Oita-Ken Onsen Chosa Kenkyū-Kai
Hokoku*, No. 20, 63–65 (March
1969).

(JAPANESE). KYUSHU UNIVERSITY,
OITA, JAPAN.

9373 Molokhia, M. M., Portnoy, B.

**Neutron activation analysis of
trace elements in skin. IV.
Regional variations in copper,
manganese and zinc in normal
skin.**

Brit. J. Derm., 82, 254–255
(1970).

(ENGLISH). MANCHESTER AND
SALFORD HOSPITAL FOR SKIN
DISEASES, MANCHESTER, ENGLAND.

9374 Molokhia, M. M., Portnoy, B.

**Neutron activation analysis of
trace elements in skin. V. Copper
and zinc in psoriasis.**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Brit. J. Derm., **83**, 376–381

(1970).

(ENGLISH). MANCHESTER AND SALFORD HOSPITAL FOR SKIN DISEASES, MANCHESTER, ENGLAND.

9375 Cooper, J. A.

Evaluation of Ge(Li) Compton suppression spectrometers for nondestructive radiochemical analysis.

BNWL-1285, 19p. (August 1970).

(ENGLISH). BATTELLE NORTHWEST, PACIFIC NORTHWEST LABORATORIES, RICHLAND, WASHINGTON.

9376 Kienberger, C. A.

Determination of beryllium by gamma activation.

Y-1733, 19p. (14 September 1970).

(ENGLISH). UNION CARBIDE CORPORATION, NUCLEAR DIVISION, OAK RIDGE, TENNESSEE.

9377 Schweikert, E. A., Rook, H. L.

Determination of oxygen in silicon in the sub-part-per-million range by charged-particle activation analysis.

Anal. Chem., **42**, No. 13, 1525–1527 (November 1970).

(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY AND DEPARTMENT OF CHEMISTRY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

9378 Guinn, V. P.

Gamma-ray spectrometry developments in activation analysis studies.

Proceedings of the Instrument Society of America, **8**, 283–286 (1962).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9379 Gills, T. E., Marlow, W. F.,

Thompson, B. A.

Determination of trace elements in glass by activation analysis using hydrated antimony pentoxide for sodium removal.

Anal. Chem., **42**, No. 14, 1831–1833

(December 1970).

(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

9380 Kapitza, S. P., Samosyuk, V. N., Tsipenyuk, Y. M., Kunin, L. L., Chapyzhnikov, B. A., Wasserman, A. M., Yakovlev, Y. V.

Photo-nuclear activation analysis of oxygen in pure materials with sensitivities of 0.1 to 0.01 ppm.

Radiochem. Radioanal. Letters, **5**, No. 4–5, 217–222 (December 15, 1970).

(ENGLISH). INSTITUTE FOR PHYSICAL PROBLEMS AND INSTITUTE OF GEOCHEMISTRY AND ANALYTICAL CHEMISTRY, ACADEMY OF SCIENCES, MOSCOW, USSR.

9381 Kliment, V., Tolgyessy, J.

On the feasibility of the determination of cobalt and selenium by on-stream activation analysis.

Radiochem. Radioanal. Letters, **5**, No. 4–5, 259–263 (December 15, 1970).

(ENGLISH). INSTITUTE OF PHYSICS, ACADEMY OF SCIENCES, BRATISLAVA, CZECHOSLOVAKIA.

9384 Guinn, V. P.

Non-biological applications of neutron activation analysis in forensic studies.

Methods of Forensic Science, Vol. **III**, 47–68, Curry, A.S. (Ed.), Interscience Publishers, London (1964).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9385 Guinn, V. P.

Recent developments in the application of neutron activation analysis techniques to forensic problems.

J. Forensic Sci. Soc., **4**, No. 4, 184–191 (October 1964).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9386 Guinn, V. P.
Neutron activation analysis for process control.
Proceedings of the Conference on Nuclear Applications to the Wood, Paper, and Pulp Industries, 105–117, Washington State University, Pullman (1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF. DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9387 Guinn, V. P.
Neutron activation analysis of foodstuffs for pesticide residues.
World Review of Pest Control, 3, 138–147 (1964).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9388 Guinn, V. P.
Some new applications of reactor-based neutron activation analysis.
Proceedings of an IAEA Study Group Meeting on the Utilization of Research Reactors, Sao Paulo, Brazil, November 4–8, 1963, Vol. I, 423–427, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9389 Guinn, V. P., Lukens, H. R.
Nuclear methods.
Trace Analysis — Physical Methods, 325–376, Morrison, G.H. (Ed.), Interscience, New York (1965).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9390 Guinn, V. P.
New developments in reactor-based neutron activation analysis.
Proceedings of an IAEA Study Group Meeting on the Utilization of Research Reactors, Sao Paulo, Brazil, November 4–8, 1963, Vol. I, 429–435, Vienna, International Atomic Energy Agency (1965).
 (ENGLISH). GENERAL ATOMIC
- DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9391 Guinn, V. P.
Activation analysis, with particular attention to the detection of stable tracers.
Isotopes in Experimental Pharmacology, 23–32, Roth, L.J. (Ed.), University of Chicago Press (1965).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9392 Guinn, V. P.
Activation analysis.
Encyclopedia of Industrial Chemical Analysis, 52–77, Snell, F.D. and Hilton, C.L. (Eds.), Interscience Publishers, New York (1965).
 (ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.
- 9393 Puchner, H. F., Holland, H. D.
Studies in the Providencia Area, Mexico, III. Neutron activation analyses of fluid inclusions from Noche Buena.
Econ. Geol., 61, 1390–1398 (December 1966).
 (ENGLISH). DEPARTMENT OF GEOLOGY, PRINCETON UNIVERSITY, PRINCETON, N.J.
- 9394 Jervis, R. E.
Forensic activation analysis.
J. Indian Academy of Forensic Sciences, 12, No. 1, 1–18 (1966).
 (ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING, UNIVERSITY OF TORONTO, TORONTO, ONT., CANADA.
- 9395 Young, H. E., Guinn, V. P.
Chemical elements in complete mature trees of seven species in Maine.
J. Technical Association Pulp and Paper Industry, 49, No. 5, 190–197 (1966).
 (ENGLISH). SCHOOL OF FORESTRY, UNIVERSITY OF MAINE, ORONO, MAINE AND GENERAL ATOMIC DIVISION,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9396 Jervis, R. E.

Current Canadian programme in forensic activation analysis.

Proceedings of 7th Japan Conference on Radioisotopes, Tokyo, May 1966, 10p., Japan Atomic Industrial Forum, Inc., Tokyo (1967).

(ENGLISH). UNIVERSITY OF TORONTO, CANADA.

9397 Jervis, R. E., Perkins, A. K., Blackburn, J. A.

Electronic computers in radioisotope utilization. IV. Application of the electronic computer to multi-element activation analyses.

Proceedings of 7th Japan Conference on Radioisotopes, Tokyo, May 1966, 455-463, Japan Atomic Industrial Forum, Inc., Tokyo (1967).

(ENGLISH). UNIVERSITY OF TORONTO, CANADA.

9398 Miki, R., Kondo, Y., Azuma, T.

Photoactivation analysis of PVC sheets.

Kinki Daigaku Genshiryoku Kenkyusho Nenpo, No. 6, 1-4 (1967).

(JAPANESE) (ENGLISH SUMMARY). RADIATION CENTER OF OSAKA PREFECTURE.

9399 Bryan, D. E., Guinn, V. P., Settle, D. M.

High-flux neutron activation analysis as an investigative tool in the field of criminalistics.

Law Enforcement Science and Technology, Vol. I, 371-377, Yefsky, S.A. (Ed.), Thompson Book Co., Academic Press, London (1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9400 Guinn, V. P.

A state-of-the-art report on

forensic activation analysis.

Law Enforcement Science and Technology, Vol. I, 379-384, Yefsky, S.A. (Ed.), Thompson Book Co., Academic Press, London (1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9401 Guinn, V. P.

New developments in the application of activation analysis to problems of crime investigation.

Proceedings of the 7th Japan Conference on Radioisotopes, Tokyo, May 1966, 563-569, Japan Atomic Industrial Forum (1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9402 Guinn, V. P.

Applications of neutron activation analysis — in mining, agriculture, medicine, and crime investigation.

Nuclear Energy and Latin American Development, 91-101, Smith, C.B. (Ed.), Proceedings of a Conference held at the University of California at Los Angeles, March 23-28 (1967).

(ENGLISH). GENERAL ATOMIC DIVISION, GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIF.

9403 Meyers, P.

Some applications of non-destructive activation analysis.

Thesis. University of Amsterdam, 83p. (1968).

(ENGLISH) (DUTCH SUMMARY). UNIVERSITY OF AMSTERDAM.

9404 Fierotti, G., Cappadona, C.

Activation analysis of soils for determination of magnesium.

Applicazioni dell'Energia Nucleare in Agricoltura, 145-155, Comitato Nazionale Energia Nucleare (1968).

(ITALIAN). ISTITUTO DI AGRONOMIA

ACTIVATION ANALYSIS—ACCESSION NUMBERS

GENERAL E COLTIVAZIONI ERBACEE E
ISTITUTO DI APPLICAZIONI E
IMPIANTI NUCLEARI DELL UNIVERSITA
DEGLI STUDI DI PALERMO.

9405 Kukula, F.

**The stoichiometric
determination of gold in iron by
activation analysis.**

Chem. Zvesti, **23**, No. 7, 521–526
(1969).

(ENGLISH). INSTITUTE OF NUCLEAR
RESEARCH, CZECHOSLOVAK ACADEMY OF
SCIENCES, PRAGUE, REZ,
CZECHOSLOVAKIA.

9406 Schneer Erdey, A.

**Paper chromatographic separation
in neutron activation analysis.**

Kem. Kozlem., **31**, No. 1, 23–30
(1969).

(HUNGARIAN). MAGYAR TUDOMANYOS
AKADEMIA SZERVETLEN KEMIAI
KUTATOC SOPORTJGA, BUDAPEST,
HUNGARY.

9407 Martin, J.

**Autoradiographic investigation of
semiconductor silicon.**

Siemens-Zeitschrift, **43**, No. 3,
180–187 (March 1969).

(GERMAN). ARBEIT DER
KERNTECHNISCHEN LABORATORIEN
ERLANGEN DER SIEMENS
AKTIEGESELLSCHAFT.

9408 Petersen, B. R.

Neutron activation analysis.

Forsk. Udvikling-Uddannelse, **78**,
122–126 (1969).

(DANISH). DANISH ISOTOPE CENTER,
COPENHAGEN, DENMARK.

9409 Mainz Universitat

Annual report, 1968.

BMBW-FBK-70-4, 85–90 (February
1970).

(GERMAN). MAINZ UNIVERSITAT,
INSTITUT FUR ANORGANISCHE CHEMIE
UND KERNCHEMIE, WEST GERMANY.

9410 Tanner, J. T., Lambert, J. P. F.,
Simpson, R. E.

The neutron activation analysis

**program of the Food and Drug
Administration.**

J. Assn. Offic. Anal. Chem., **53**,
No. 6, 1140–1144 (1970).

(ENGLISH). DIVISION OF FOOD
CHEMISTRY AND TECHNOLOGY, FOOD
AND DRUG ADMINISTRATION,
WASHINGTON, D.C.

9411 Koshelev, I. V., Glazkov, A. S.,
Baranov, V. A.

**Device for the rapid radiometric
analysis of beryllium ores and
concentrates.**

Industrial Laboratory, **36**, No. 7,
1104–1107 (July 1970).

(ENGLISH TRANSLATION). RUSSIA.

9412 Frolov, V. V.

**Radioactivation determination of
chlorine and vanadium in
graphite.**

Industrial Laboratory, **36**, No. 7,
1018–1019 (July 1970).

(ENGLISH TRANSLATION). RUSSIA.

9413 Krasnov, N. N., Dmitriev, P. P.,
Dmitrieva, Z. P., Konstantinov,
I. O., Molin, G. A.

**C-11, N-13, and F-18 yields during
the irradiation of nitrogen by
protons, deuterons, He-3 ions,
and alpha-particles.**

Soviet Atomic Energy, **28**, No. 6,
637–638 (June 1970).

(ENGLISH TRANSLATION). RUSSIA.

9414 Maziere, B., Comar, D.,
Kellershohn, C.

**Determination of selenium in
biological media by neutron
radioactivation.**

Bull. Soc. Chim. Fr., No. 10,
3767–3771 (1970).

(FRENCH). COMMISSARAIT A
L'ENERGIE ATOMIQUE. DEPARTEMENT
DE BIOLOGIE, SERVICE HOSPITALIER
FREDERIC-JOLIOT, ORSAY, FRANCE.

9415 Orvini, E., Meloni, S., Maxia, V.,
Di Casa, M.

**Some Italian meteorites trace
elements content by
non-destructive neutron
activation analysis.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Ann. Chim. (Rome)*, **60**, No. 7,
506–513 (1970).
(ENGLISH) (ITALIAN SUMMARY).
LABORATORIO DI RADIOCHIMICA DELL
ISTITUTO DI CHIMICA GENERALE DELL
UNIVERSITA, PAVIA, ITALY.
- 9416 Adamek, A., Severa, F.
**Contribution to the problem of
oxygen content determination by
14 MeV neutron activation.**
Radiochem. Radioanal. Letters, **4**,
301–306 (31 August 1970).
(ENGLISH). INSTITUTE OF PHYSICS,
SLOVAK ACADEMY OF SCIENCES,
BRATISLAVA, CZECHOSLOVAKIA.
- 9417 Das, H. A., De Graaff, N., Hoede,
D., Zonderhuis, J.
**Routine determination of vanadium
in silicate rocks by neutron
activation analysis.**
Radiochem. Radioanal. Letters, **4**,
307–314 (31 August 1970).
(ENGLISH). REACTOR CENTRUM
NEDERLAND, PETTEN, THE
NETHERLANDS.
- 9418 Nadkarni, R. A., Ehmann, W. D.
**Further analyses of University of
Kentucky reference and alkaloid
series cigarettes by instrumental
neutron activation analysis.**
Radiochem. Radioanal. Letters, **4**,
325–335 (31 August 1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 9419 Albert, P.
**Activation analysis with thermal
neutrons.**
Techniques of Metals Research,
Vol. **III**, Part 2, 687–754,
Bunshah, R.F. (Ed.), Interscience
Publishers (1970).
(ENGLISH). LABORATOIRE D'ANALYSE
PAR ACTIVATION, CENTRE D'ETUDES
DE CHIMIE METALLURGIQUES,
VITRY-SUR-SEINE, FRANCE.
- 9420 Laverlochere, J.
**Activation analysis with fast
neutrons.**
Techniques of Metals Research,
- Vol. **III**, Part 2, 755–775,
Bunshah, R.F. (Ed.), Interscience
Publishers (1970).
(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, DEPARTMENT
DES RADIOELEMENTS, CENTRE
D'ETUDES NUCLEAIRE DE GRENOBLE,
GRENOBLE, FRANCE.
- 9421 Engelmann, C., Albert, P.
**Activation analysis with gamma
rays and charged particles.**
Techniques of Metals Research,
Vol. **III**, Part 2, 777–865,
Bunshah, R.F. (Ed.), Interscience
Publishers (1970).
(ENGLISH). C.E.N. SACLAY GIF SUR
YVETTE AND C.N.R.S., VITRY SUR
SEINE, FRANCE.
- 9422 Laverlochere, J.
**Use of computers in activation
analysis.**
Techniques of Metals Research,
Vol. **III**, Part 2, 867–880,
Bunshah, R.F. (Ed.), Interscience
Publishers (1970).
(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, DEPARTMENT
DES RADIOELEMENTS, CENTRE
D'ETUDES NUCLEAIRE DE GRENOBLE,
GRENOBLE, FRANCE.
- 9423 Albert, P.
**General conclusions on the methods
of activation analysis.**
Techniques of Metals Research,
Vol. **III**, Part 2, 881–884,
Bunshah, R.F. (Ed.), Interscience
Publishers (1970).
(ENGLISH). C.E.C.M.-C.N.R.S.,
VITRY-SUR-SEINE, FRANCE.
- 9424 Kuznetsov, R. A., Grushko, Y. S.,
Kotelnikov, L. A.
**Photoactivation determination of
oxygen in compounds containing
iodine.**
Radiokhimiya, **12**, No. 3, 531–533
(1970).
(RUSSIAN). RUSSIA.
- 9425 Lambert, J. P. F., Simpson, R. E.,
Mohr, H. E., Hopkins, L. L.
Determination of vanadium by

ACTIVATION ANALYSIS – ACCESSION NUMBERS

neutron activation analysis at nanogram levels to formulate a low vanadium diet.

J. Assn. Offic. Anal. Chem., **53**, No. 6, 1145–1150 (1970).

(ENGLISH). FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C.

9426 Trombka, J. I., Senftle, F. E.,
Schmadebeck, R. L.

Neutron radiative capture methods for surface elemental analysis.

Nucl. Instruments Methods, **87**, No. 1, 37–43 (1970).

(ENGLISH). GODDARD SPACE FLIGHT CENTER GREENBELT, MARYLAND AND U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.

9427 Brandstadter, O., Girsig, F.,

Grass, F., Flenk, R., Bauer, R.

Nondestructive analysis using short living nuclides I. 20 ms ^{71m}Ge

Atomkernenergie, **15**, 285–287 (1970).

(GERMAN) (ENGLISH SUMMARY). ATOMINSTITUT DER OSTERREICHISCHEN HOCHSCHULEN, WIEN, UND ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.

9428 Eisele, J. A., Larson, R. E.,

Wilkniss, P. E.

Oceanographic investigations using sector-focusing cyclotron.

Intern. J. Applied Radiation Isotopes, **21**, 219–224 (April 1970).

(ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.

9429 Kasperek, K.

Techniques of activation analysis and their importance in biology.

Kerntechnik, **12**, 207–212 (May–June 1970).

(GERMAN AND ENGLISH). INSTITUT FÜR MEDIZIN, KERNFORSCHUNGSANLAGE JULICH GMBH, JULICH.

9431 Quittner, P., Wainerdi, R. E.

Computer evaluation of NaI(Tl) and

Ge(Li) gamma-ray spectra.

At. Energy Rev., **8**, 361–415 (June 1970).

(ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY AND TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

9432 Matthews, A. D., Riley, J. P.

The determination of indium in sea water.

Anal. Chim. Acta, **51**, No. 2, 287–294 (1970).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). DEPARTMENT OF OCEANOGRAPHY, THE UNIVERSITY, LIVERPOOL, ENGLAND.

9433 Brune, D., Hellborg, R.

Studies of the carbon content of steel and its depth distribution by means of proton activation analysis.

Anal. Chim. Acta, **52**, No. 1, 109–114 (1970).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). AB ATOMENERGI, STUDSVIK, SWEDEN.

9434 Montalvo, J. G., Thibodeaux, D.

P., Klein, E.

Sample preparation for neutron activation analysis. Deposition of mercury on a plastic matrix.

Anal. Chim. Acta, **52**, No. 1, 160–163 (1970).

(ENGLISH). DIVISION OF POLYMER AND PHYSICAL CHEMISTRY, GULF SOUTH RESEARCH INSTITUTE, NEW ORLEANS, LOUISIANA.

9435 Wakita, H., Schmitt, R. A.

Rare earth and other elemental abundances in the Allende meteorite.

Nature (London), **227**, 478–479 (1 August 1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY AND THE RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.

9436 Shanks, D. E., Broadhead, K. G.,

Heady, H. H.

- Activation analysis of gold bearing scrap solders.**
Intern. J. Appl. Radiation Isotopes, **21**, No. 11, 671-676 (1970).
 (ENGLISH) (FRENCH, RUSSIAN AND GERMAN SUMMARIES). RENO METALLURGY RESEARCH CENTER, BUREAU OF MINES, U.S. DEPARTMENT OF THE INTERIOR, RENO, NEVADA.
- 9437 Meloni, S., Maxia, V., Buzzi, S.
Aluminum and silicon abundances of some Italian meteorites as determined by instrumental activation analysis.
Geochim. Cosmochim. Acta, **34**, No. 11, 1245-1248 (1970).
 (ENGLISH). LABORATORIO DI RADIOCHIMICA, ISTITUTO DI CHIMICA GENERALE, UNIVERSITA DI PAVIA, PAVIA, ITALY.
- 9439 Antropov, G. P., Mitrofanov, I. E., Sokolov, Y. A., Tsarev, V. P.
Determination of trace amounts of oxygen and carbon by gamma activation.
Elektron. Uskor., Tr. Mezhdvuz. Konf., 6th 1966, 566-568, Kopeikina, L.V. (Ed.), Energiya, Moscow, USSR (1968).
 (RUSSIAN). RUSSIA.
- 9440 Belokobylskii, A. I., Ginturi, E. N., Mosulishvili, L. M., Kharabadze, N. E.
Activation analysis study of trace quantities of some heavy metals in DNA and RNA.
Biofizika, **13**, No. 6, 950-954 (1968).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUTE OF PHYSICS, ACADEMY OF SCIENCES GEORGIAN SSR, TBILISI, USSR.
- 9441 Bogancs, J., Cseh, S., Elek, A., Sali, S., Simonits, A., Ordogh, M., Szabo, E.
Application of activation analysis for the determination of impurities in telecommunication materials.
Atomtech. Tajek, **11**, 631-634 (December 1968).
 (HUNGARIAN). MTA KOZPONTI KUTATO INTEZET, BUDAPEST, HUNGARY.
- 9442 Bryan, D. E., Guinn, V. P., Hackleman, R. P., Lukens, H. R.
Development of nuclear analytical techniques for oil slick identification (phase I).
 GA-9889, 134p. (January 21, 1970).
 (ENGLISH). GULF GENERAL ATOMIC INCORPORATED, SAN DIEGO, CALIF.
- 9443 Battistone, G. C., Levri, E., Lofberg, R. T.
Simplified ultramicro determination of copper in biological specimens by neutron activation analysis.
Clin. Chim. Acta, **30**, No. 2, 429-438 (1970).
 (ENGLISH). DIVISION OF ORAL BIOLOGY, U.S. ARMY INSTITUTE OF DENTAL RESEARCH, WALTER REED ARMY MEDICAL CENTER, WASHINGTON, D.C.
- 9444 Jinno, K., Ishii, D.
Gamma-ray spectrometry in activation analysis with Be-D neutrons.
Radioisotopes (Tokyo), **19**, 406-409 (September 1970).
 (ENGLISH) (JAPANESE SUMMARY). DEPARTMENT OF APPLIED CHEMISTRY, FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, FURO-CHO, CHIKUSA-KU, NAGOYA, JAPAN.
- 9445 Girardi, F.
Radiochemical separation. New materials, new techniques, and new ideas for a larger laboratory production.
Cron. Chim., No. 27, 14-24 (1970).
 (ITALIAN) (SPANISH, FRENCH AND ENGLISH SUMMARIES). ISPRA, CENTRO COMMUNE DI RECERCHE DELLA COMUNITA EUROPEA-EURATOM. ITALY.
- 9446 Federer, B.
Neutron activation determination of the aerosol content of Greenland snow.
Pure Appl. Geophys., **79**, 120-127

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- (1970).
 (ENGLISH). SWISS INSTITUTE FOR
 SNOW AND AVALANCHE RESEARCH,
 DAVOS, SWITZERLAND.
- 9447 Loveridge, B. A., Mc Innes, C. A.
 J.
**The microanalytical estimation of
 boron in steel using the $^{10}\text{B}(n, \alpha)^7\text{Li}$ reaction.**
Microsc. Cryst. Front, **16**, 105–114
 (1967).
 (ENGLISH). ATOMIC ENERGY
 RESEARCH ESTABLISHMENT, HARWELL,
 DIDCOT, BERKSHIRE, ENGLAND.
- 9448 Greene, R. E.
Tracing with activable tracers. II
Isotopes Radiation Technology, **6**,
 No. 1, 70–76 (Fall 1968).
 (ENGLISH). USA.
- 9449 Beridze, G. I., Macharashvili, G.
 R., Mosulishvili, L. M.
**Quantitative determination of gold
 in some wines by a neutron
 activation method.**
Radiokhimiya, **11**, No. 6, 726–728
 (1969).
 (RUSSIAN). RUSSIA.
- 9450 Tolgyessy, J., Lukac, P.
**Activation analysis in
 archaeology.**
Chem. Listy, **63**, No. 4, 385–394
 (1969).
 (CZECHOSLOVAKIAN). KATEDRA
 RADIOCHEMIE A RADIACNEJ CHEMIE,
 CHEMICKOTECHNOLOGICKA FAKULTA,
 SVST, BRATISLAVA, CZECHOSLOVAKIA.
- 9451 Berzin, A. K., Sulin, V. V.
**Photonuclear methods for analysis
 of mineral composition of rock
 and ore samples.**
Tr. Vses. Nauch.-Issled. Inst.
Yad. Geofiz. Geokhim., No. 5,
 203–225 (1969).
 (RUSSIAN). RUSSIA.
- 9452 Leipunskaya, D. I.
**Neutron activation analysis of
 rock samples.**
Tr. Vses. Nauch.-Issled. Inst.
- Yad. Geofiz. Geokhim.*, No. 5,
 226–245 (1969).
 (RUSSIAN). RUSSIA.
- 9454 Giroux, J., Talvat, M., Thomas, J.
 P., Tousset, J.
**Spurious reactions encountered in
 the determination of oxygen in
 silicon by alpha particle
 activation.**
 LYCEN-7038, 13p. (May 13, 1970).
 (FRENCH) (ENGLISH SUMMARY).
 INSTITUT DE PHYSIQUE NUCLEAIRE,
 UNIVERSITE DE LYON, FRANCE.
- 9455 Abdel-Rassoul, A. A., Aly, H. F.,
 Madbouly, R.
**Purity control of palladium used
 for the production of
 radioisotopes. II. Determination
 of ruthenium, cobalt, iron, zinc,
 cadmium, and mercury by neutron
 activation analysis.**
J. Radioanal. Chem., **5**, No. 2,
 193–200 (1970).
 (ENGLISH). NUCLEAR CHEMISTRY
 DEPARTMENT, ATOMIC ENERGY
 ESTABLISHMENT, CAIRO, UAR.
- 9456 Higuchi, H., Tomura, K.,
 Hamaguchi, H.
**Determination of rare earth
 elements in rock samples by
 neutron activation analysis. Use
 of Ge(Li) detector in conjunction
 with light-heavy lanthanides
 separation by cation exchange.**
J. Radioanal. Chem., **5**, No. 2,
 207–222 (1970).
 (ENGLISH). INSTITUTE FOR ATOMIC
 ENERGY, RIKIKYO UNIVERSITY,
 YOKOSUKA AND DEPARTMENT OF
 CHEMISTRY, FACULTY OF SCIENCE,
 UNIVERSITY OF TOKYO, HONGO,
 TOKYO, JAPAN.
- 9457 Edgington, D. N., Lucas, H. F.
**A system for the neutron
 activation analysis of trace
 elements in samples of biological
 and environmental interest.**
J. Radioanal. Chem., **5**, No. 2,
 233–250 (1970).
 (ENGLISH). RADIOLOGICAL PHYSICS

ACTIVATION ANALYSIS—BIBLIOGRAPHY

DIVISION, ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

- 9458 Pillay, K. K. S., Hagle, R. E.,
Glomski, C. A.
**Studies of erythrocyte kinetics
using stable chromium and neutron
activation analysis.**

J. Radioanal. Chem., **5**, No. 2,
265-269 (1970).

(ENGLISH). WESTERN NEW YORK
NUCLEAR RESEARCH CENTER, INC.,
AND STATE UNIVERSITY OF NEW YORK
AT BUFFALO, SCHOOL OF MEDICINE,
BUFFALO, N.Y.

- 9459 Filby, R. H., Haller, W. A., Shah,
K. R.

**Determination of 32 elements in
rocks by neutron activation
analysis and high resolution
gamma ray spectrometry.**

J. Radioanal. Chem., **5**, No. 2,
277-289 (1970).

(ENGLISH). NUCLEAR RADIATION
CENTER, WASHINGTON STATE
UNIVERSITY, PULLMAN, WASHINGTON.

- 9460 Qureshi, I. H., Cheema, M. N.

**Simultaneous determination of
copper, manganese, zinc, and
sodium in plant materials by
neutron activation analysis.**

J. Radioanal. Chem., **5**, No. 2,
323-329 (1970).

(ENGLISH). ATOMIC ENERGY CENTRE,
LAHORE, PAKISTAN.

- 9461 Kudo, K., Hishinuma, N.

**Determination of nickel, gold, and
silver in gallium arsenide by
radioactivation analysis based on
the quantitative isotope dilution
principle.**

J. Radioanal. Chem., **5**, No. 2,
331-341 (1970).

(ENGLISH). ELECTRICAL
COMMUNICATION LABORATORY, NIPPON
TELEGRAPH AND TELEPHONE PUBLIC
CORPORATION, TOKAI, IBARAKI,
JAPAN.

- 9462 Haerdi, W., Daniel, R.

**Nuclear reactions induced by
reactor-fast neutrons.**

**Application to radiochemical
determination, especially
silicon.**

J. Radioanal. Chem., **5**, No. 2,
353-358 (1970).

(FRENCH) (ENGLISH SUMMARY).
INSTITUT DE CHIMIE ANALYTIQUE,
UNIVERSITE DE GENEVE, GENEVE,
SUISSE.

- 9463 Kusaka, Y., Tsuji, H.

**Nondestructive determination of
chlorine in organic compounds by
neutron-capture gamma-ray
measurement, using an isotopic
neutron source.**

J. Radioanal. Chem., **5**, No. 2,
359-367 (1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
KONAN UNIVERSITY, KOBE, JAPAN.

- 9464 Kuncir, J., Benada, J., Randa, Z.,
Vobecky, M.

**Multielement standard for routine
instrumental activation analysis
of trace elements in rocks and
tektites.**

J. Radioanal. Chem., **5**, No. 2,
369-378 (1970).

(ENGLISH). INSTITUTE OF MINERAL
RAW MATERIALS, KUTNA HORA AND
NUCLEAR RESEARCH INSTITUTE OF THE
CZECHOSLOVAK ACADEMY OF SCIENCES,
REZ, PRAGUE, CZECHOSLOVAKIA.

- 9465 Weber, G., Guillaume, M.

**Fast and precise determination of
fluorine in geological samples by
14 MeV neutron activation
analysis.**

J. Radioanal. Chem., **5**, No. 2,
379-386 (1970).

(ENGLISH). LABORATOIRE
D'APPLICATION DES RADIOELEMENTS,
UNIVERSITE DE LIEGE, BELGIQUE.

- 9466 Olivier, C., Peisach, M.

**Determination of chromium on metal
surfaces by prompt proton
spectrometry.**

J. Radioanal. Chem., **5**, No. 2,
391-402 (1970).

(ENGLISH). SOUTHERN UNIVERSITIES

ACTIVATION ANALYSIS – ACCESSION NUMBERS

NUCLEAR INSTITUTE, FAURE, SOUTH AFRICA.

- 9467 Nargolwalla, S. S., Niewodniczanski, J., Suddueth, J. E.
Experimental sensitivities for 3 MeV neutron activation analysis.
J. Radioanal. Chem., **5**, No. 2, 403–423 (1970).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 9468 Weber, G., Guillaume, M.
Gamma ray spectra and sensitivities for 2.8 MeV neutron activation analysis.
J. Radioanal. Chem., **5**, No. 2, 425–437 (1970).
 (ENGLISH). LABORATOIRE D'APPLICATION DES RADIOELEMENTS, UNIVERSITE DE LIEGE, BELGIQUE.
- 9469 Ryabinin, A. I., Romanov, A. S.
Neutron activation analysis of sea water.
Geokhimiya, No. 7, 875–879 (1970).
 (RUSSIAN). MORSKOII GIDROFIZICHESKII INSTITUT AKADEMIIA NAUK USSR. SEVAST OPOL, USSR.
- 9471 Marsh, K. V.
Photon activation analysis with the Livermore electron linear accelerator.
Lab. Pract., **19**, No. 10, 1017–1024, 1030 (1970).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIFORNIA.
- 9472 Morgan, J. W., Ehmann, W. D.
Lunar rock 12013, oxygen, silicon, aluminum, and iron abundances.
Earth Planetary Science Letters, **9**, No. 2, 164–168 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 9473 Wakita, H., Schmitt, R. A.
Elemental abundances in seven fragments from lunar rock 12013.
Earth Planetary Science Letters, **9**, No. 2, 169–176 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND THE RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.
- 9474 Laul, J. C., Keays, R. R., Ganapathy, R., Anders, E.
Abundance of 14 trace elements in lunar rock 12013, 10.
Earth Planetary Science Letters, **9**, No. 2, 211–215 (1970).
 (ENGLISH). ENRICO FERMI INSTITUTE AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.
- 9475 Pelekis, L. L., Smirnov, V. I., Taure, I. Y.
Neutron activation method of measurement of the local wear using inlets – wear monitors.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 5, 3–9 (1970).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AKADEMIIA NAUK LATVIAN SSR.
- 9476 Boddy, K., East, B. W., Robertson, I.
Geometrical factors in partial body in vivo activation analysis using epithermal and fast neutrons.
Intern. J. Appl. Radiation Isotopes, **21**, 500–503 (August 1970).
 (ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, SCOTLAND.
- 9477 La Fleur, P. D., Becker, D. A.
Activation analysis section. Summary of activities, July 1969 to June 1970.
 NBS Tech. Note 548, 164p. (December 1970).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 9478 Green, T. E., Law, S. L., Campbell, M. J.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Use of selective ion exchange paper in x-ray spectrography and neutron activation. Application to the determination of gold.
Anal. Chem., **42**, No. 14, 1749–1753 (1970).
(ENGLISH). U.S. DEPARTMENT OF THE INTERIOR, BUREAU OF MINES, COLLEGE PARK METALLURGY RESEARCH CENTER, COLLEGE, PARK, MARYLAND.
- 9479 Lutz, G. J.
Photon activation analysis – a review.
Anal. Chem., **43**, No. 1, 93–103 (January 1971).
(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 9480 Ralston, H. R., Sato, E. S.
Sodium removal as an aid to neutron activation analysis.
Anal. Chem., **43**, No. 1, 129–131 (January 1971).
(ENGLISH). BIO-MEDICAL DIVISION AND RADIOCHEMISTRY DIVISION, LAWRENCE RADIATION LABORATORY, UNIVERSITY OF CALIFORNIA, LIVERMORE, CALIF.
- 9483 Giroux, J., Talvat, M., Thomas, J. P., Tousset, J.
Interfering reactions encountered in the determination of oxygen in silicon by alpha particles.
J. Radioanal. Chem., **6**, 423–430 (December 1970).
(FRENCH) (ENGLISH SUMMARY). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON, FRANCE.
- 9484 Engelmann, C.
Determination of carbon, nitrogen, oxygen, fluorine and some other elements by gamma activation.
J. Radioanal. Chem., **6**, 399–412 (December 1970).
(FRENCH) (ENGLISH SUMMARY). COMMISSARIAT A L'ENERGIE ATOMIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, DEPARTEMENT DE PHYSICO-CHIMIE, SERVICE DE PHYSICO-CHIMIE APPLIQUEE, SACLAY, FRANCE.
- 9485 Engelmann, C., Scherle, A. C.
Determination of oxygen and fluorine by means of photon activation and the counting of delayed neutrons from ^{17}N .
J. Radioanal. Chem., **6**, 235–239 (September 1970).
(FRENCH) (ENGLISH SUMMARY). DEPARTEMENT DE PHYSICO-CHIMIE, SERVICE DE PHYSICO-CHIMIE APPLIQUEE, GROUPE DE PHYSIQUE ANALYTIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, FRANCE.
- 9486 Engelmann, C.
Determination of oxygen in sodium by proton activation.
J. Radioanal. Chem., **6**, 227–234 (September 1970).
(FRENCH) (ENGLISH SUMMARY). DEPARTEMENT DE PHYSICO-CHIMIE, SERVICE DE PHYSICO-CHIMIE APPLIQUEE, GROUPE DE PHYSIQUE ANALYTIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, FRANCE.
- 9487 Isotopes Radiation Technology
Activation analysis with charged particles.
Isotopes Radiation Technology, **8**, 118–121 (Fall 1970).
(ENGLISH). USA.
- 9488 Tolgyessy, J., Salamon, A., Szabo, E.
Activation analysis by charged particles.
Chem. Listy, **64**, No. 11, 1121–1146 (1970).
(CZECHOSLOVAKIAN). KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE, CHEMICKOTECHNOLOGICKA FAKULTA SVST, BRATISLAVA, VYSKUMNY USTAV TECHNICKEJ FYZIKY MADARSKEJ AKADEMIE VIED A CENTRALNY FYZIKALNY VYSKUMNY USTAV MADARSKEJ AKADEMIE VIED, BUDAPEST.
- 9489 Rakovic, M.
Irradiation of biological tissues and other samples with neutrons. I. Activation of biological tissues in the reactor.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Sb. Lekar.*, **64**, 216–219 (1962).
(CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). BIOFYZIKALNI USTAV FAKULTY VSEOBECNEHO LEKARSTVI UNIVERSITY KARLOVY V PRAZE, PREDNOSTA DOC. DR. ZD. DIENSTBIER.
- 9490 Rakovic, M.
Irradiation of biological tissues and other samples with neutrons. II. The use of a polonium–beryllium source for activation of liquid samples.
Sb. Lekar., **64**, 216–219 (1962).
(CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). BIOFYZIKALNI USTAV FAKULTY VSEOBECNEHO LEKARSTVI UNIVERSITY KARLOVY V PRAZE, PREDNOSTA DOC. DR. ZD. DIENSTBIER.
- 9491 Sippel, R. F., Glover, E. D.
The investigation of surfaces by nuclear methods.
CONF–37–3, American Chemical Society, Southwest Regional Meeting, Dallas, Texas, December 6–8, 1962, 22p. (1962).
(ENGLISH). SOCONY MOBIL OIL COMPANY, INC., FIELD RESEARCH LABORATORY, DALLAS, TEXAS.
- 9492 Babaev, A., Lobanov, E. M.
Neutron activation assay for lanthanum and samarium in minerals.
Dokl. Akad. Nauk Tadzh. SSR, **6**, No. 6, 12–17 (1963).
(RUSSIAN). OTDEL FIZIKI I MATEMATIKI, AN TADZHIKSKOII SSR, INSTITUT YADERNOI FIZIKI AN, UZBEKSKOII SSR.
- 9493 Wilkins, W. W., Fite, L. E., Wainerdi, R. E.
A high-speed readout for multi-channel pulse-height analyzers.
Trans. Amer. Nucl. Soc., **6**, No. 2, 419–420 (November 1963).
(ENGLISH). TEXAS A AND M, COLLEGE STATION, TEXAS.
- 9494 Farmilo, C. G., Jervis, R. E.
Activation analyses of heroin seizures.
Proceedings of Canadian Society of Forensic Sciences, **4**, 197–215 (1964).
(ENGLISH). FOOD AND DRUG DIRECTORATE, OTTAWA AND DEPARTMENT OF CHEMICAL ENGINEERING, UNIVERSITY OF TORONTO, TORONTO, ONT., CANADA.
- 9495 Jervis, R. E.
Recent applications of activation analysis in criminalistics.
Proceedings of Canadian Society of Forensic Sciences, **4**, 253–260 (1964).
(ENGLISH). DEPARTMENT OF CHEMICAL ENGINEERING, UNIVERSITY OF TORONTO, TORONTO, ONTARIO, CANADA.
- 9496 Spira, J.
Photon activation analysis of cesium.
CONF–651004–9, *9th Conference on Analytical Chemistry in Nuclear Technology, Gatlinburg, Tennessee*, 18p. (1965).
(ENGLISH). BOSTON UNIVERSITY, BOSTON, MASSACHUSETTS.
- 9497 Veres, A.
Application of nuclear photoeffect in activation analysis.
Proceedings of the Analytical Chemical Conference, Budapest, 360–366 (1966).
(ENGLISH). NATIONAL ATOMIC ENERGY COMMISSION, INSTITUTE OF ISOTOPES, BUDAPEST, HUNGARY.
- 9498 Eggebraaten, V. L., Miller, L. E.
Precision neutron activation analysis of zinc and titanium oxides in organic coating pigments.
CONF–650809–2, *Society for Applied Spectroscopy, 4th National Meeting, Denver*, 9p.
(ENGLISH). THE BOEING COMPANY, QUALITY CONTROL LABORATORIES, SEATTLE, WASHINGTON.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9499 Sardi, A., Tomcsanyi, A.
Determination of silicon by activation analysis, using a neutron generator, in the sputum of silicotic patients.
Atomtech. Tajek., **9**, 301–306 (1966).
 (HUNGARIAN). KOZPONTI FIZIKAI KUTATO INTEZET AND ORSZAGOS KORANYI TBC INTEZET, HUNGARY.
- 9500 Vakhtin, B. S., Novoselov, A. V., Filippov, E. M.
Neutron-neutron method with resonance neutrons (NNMr).
Geol. Geofiz., No. 2, 113–116 (1967).
 (RUSSIAN). RUSSIA.
- 9501 Taylor, K. J.
Industrial applications of radioisotopes.
Rep. Progr. Appl. Chem., **52**, 243–256 (1967).
 (ENGLISH). ISOTOPE RESEARCH DIVISION, WANTAGE RESEARCH LABORATORY, AERE, ENGLAND.
- 9502 Erametsa, O., Sihvonen, M. L., Forssen, A.
Rare earths in the human body. I. Yttrium.
Ann. Med. Exp. Fenn., **46**, 179–184 (1968).
 (ENGLISH). LABORATORY OF INORGANIC CHEMISTRY, TECHNICAL UNIVERSITY, OTANIEMI, FINLAND.
- 9503 Nishimura, K., Hirayama, T., Kobayashi, Y.
Determination of mercury in gas by activation analysis.
Soda To Enso, **19**, No. 9, 377–384 (1968).
 (JAPANESE). CENTRAL RESEARCH LABORATORY, SHOWA DENKO K.K., TOKYO, JAPAN.
- 9504 Azuma, T., Sato, Y., Tsurugi, J., Miki, R., Kondo, Y.
(γ , n) activation analysis of several elements.
Annu. Rep. Radiat. Center Osaka Prefect., **9**, 26–29 (1968).
 (ENGLISH) (JAPANESE SUMMARY). RADIATION CENTER, OSAKA
- PREFECTURE, SAKAI, OSAKA AND KINKI UNIVERSITY, ATOMIC ENERGY RESEARCH INSTITUTE, JAPAN.
- 9505 Malvano, R., Kwiecinski, S., Grosso, P.
Determination of bromine in human tissues by non-destructive activation analysis.
J. Nucl. Biol. Med., **12**, 152–156 (1968).
 (ENGLISH). JOINT RESEARCH UNIT SORIN (NUCLEAR RESEARCH CENTRE), SALUGGIA AND CLINICAL PHYSIOLOGY INSTITUTE, CNR, PISA.
- 9506 Juna, J., Konecny, K., Vobecky, M.
Determination of boron by nuclear reaction analysis.
UJV 1960, 10p. (1968).
 (ENGLISH). USTAV JADERNEHO VYZKUMU, CESKOSLOVENSKA AKADEMIE VED, PRAHA, CZECHOSLOVAKIA.
- 9507 Kato, H.
A method of activation analysis for competing reactions by using reactor neutron flux.
Hitachi Review, **17**, No. 8, 292–298 (1968).
 (ENGLISH). CENTRAL RESEARCH LABORATORY, HITACHI, LTD., TOKYO, JAPAN.
- 9508 Lovachev, L. N., Shilman, L. Z., Chernobylskii, A. G.
Neutron activation determination of the content of metals in cottonseed oil.
Nauch. Tr. Mosk. Inst. Nar. Khoz., No. 49, 67–73 (1968).
 (RUSSIAN). RUSSIA.
- 9509 Blankova, T. N., Rusyaev, V. G., Bochkarev, B. N.
The determination of vanadium in petroleum by an activation method with a neutron generator.
Geol. Geofiz., No. 12, 108–111 (December 1968).
 (RUSSIAN). INSTITUTE OF GEOLOGY AND GEOPHYSICS, NOVOSIBIRSK, USSR.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9510 Vozzhenikov, G. S., Brednev, I. I., Trofimov, V. L.
Determination of the ash content in coals by activation analysis.
Izv. Vyssh. Ucheb. Zaved., Gorn. Zh., **11**, No. 10, 148–153 (1968).
 (RUSSIAN). SVERDLOVSK, GORNII INSTITUT IMENI V.V. VAKHRUSHEVA, SVERDLOVSK, USSR.
- 9511 Cooper, J. A., Wogman, N. A., Palmer, H. E., Perkins, R. W.
The application of solid state detectors to environmental and biological problems.
Health Physics, **15**, 419–433 (1968).
 (ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 9512 Van Wyk, C. W., Retief, D. H.
Detection of elements in teeth by means of neutron activation.
Diastema, **2**, No. 3, 33–34 (1968–1969).
 (ENGLISH). DEPARTMENT OF DENTISTRY, UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG.
- 9513 Lobanov, E. M., Umarov, M. U., Numanov, I. U., Azizov, N. A.
Neutron-activation determination of manganese and copper in crude oil, its fractions, and ashes.
Dokl. Akad. Nauk Tadzh. SSR, **12**, No. 5, 33–37 (1969).
 (RUSSIAN). INSTITUTE OF CHEMISTRY, DUSHANBE, USSR.
- 9514 Rodriguez, F. A., Gage, S. J., Ralls, K. M.
Nondestructive neutron activation analysis for trace impurities in niobium.
Proceedings of the Seventh Symposium on Nondestructive Evaluation of Components and Materials in Aerospace, Weapons Systems, and Nuclear Applications, April 23–25, 1969, San Antonio, Texas, 373–378, Western Periodicals Company, North Hollywood, California (1969).
- (ENGLISH). THE UNIVERSITY OF TEXAS AT AUSTIN, AUSTIN, TEXAS.
- 9515 Babaev, A., Khamrabaev, I. K., Azimov, P. T., Umarov, M. U.
Determination of the content of rare earth elements in minerals from granitoids of some massifs in Central Asia and other regions from activation analysis data.
Dokl. Akad. Nauk Tadzh. SSR, **12**, No. 1, 48–52 (1969).
 (RUSSIAN). FIZIKO-TEKHNICHESKII INSTITUT IM. S.U. UMAROVA AN TADZHIKSKOII SSR, DUSHANBE, USSR.
- 9516 Lobanov, E. M., Umarov, M. U., Azizov, N. A., Numanov, I. U.
Quantitative determination of vanadium and nickel in crude oil, its fractions, and ashes by neutron activation.
Dokl. Akad. Nauk Tadzh. SSR, **12**, No. 6, 33–36 (1969).
 (RUSSIAN). INSTITUT KHIMII, AN TADZHIKSKOII SSR, DUSHANBE, USSR.
- 9517 Comitato Nazionale Energia Nucleare
Use of pulsed reactors for activation analysis.
Com. Naz. Energ. Nucl., Notiz., **15**, No. 1, 83–86 (January 1969).
 (ITALIAN). COMITATO NAZIONALE ENERGIA NUCLEARE, ITALY.
- 9518 Chamberlain, M. J.
Whole-body neutron activation analysis.
Proc. Roy. Soc. Med., **62**, 370–373 (April 1969).
 (ENGLISH). DEPARTMENT OF EXPERIMENTAL PATHOLOGY, UNIVERSITY OF BIRMINGHAM, ENGLAND.
- 9519 Pradzynski, A.
Photo-nuclear and fast neutron activation analysis of copper in copper ores and flotation products.
Nuclear Techniques and Mineral Resources, 451–462, Vienna, International Atomic Energy Agency (1969).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). OFFICE OF THE
GOVERNMENT COMMISSIONER FOR
ATOMIC ENERGY, WARSAW, POLAND.

9520 Mark, H. B., Eisner, U.,
Rottschafer, J. M., Berlandi, F.
J., Mattson, J. S.

**Application of semipermeable ion
exchange membranes to in situ
determination of trace metal ions
in aqueous systems by
electrochemical and neutron
activation techniques. Critical
evaluation of techniques.**

Environ. Sci. Technol., **3**, No. 2,
165–168 (1969).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN.

9521 Heinonen, J.

**Neutron activation analysis and
its geological applications.**

Geologi, **21**, No. 8, 125–128
(1969).

(FINNISH). FINLAND.

9522 Kodiri, S., Starchik, L. P.

**Gamma activation method for the
determination of selenium,
yttrium, silver, barium, hafnium,
and gold.**

Dokl. Akad. Nauk Tadzh. SSR, **12**,
No. 5, 17–21 (1969).

(RUSSIAN). TADZHIKSKII
GOSUNIVERSITET IM. V.I. LENINA,
DUSHANBE, USSR.

9523 Chemical Processing

Neutron activation analysis.

Chem. Process. (London), **15**, 28–29
(May 1969).

(ENGLISH). ENGLAND.

9524 De Wet, W. J., Turkstra, J.

**Multiple–element determinations by
activation analysis utilizing
high resolution gamma
spectrometry.**

S. Afr. Chem. Process., **4**, No. 5,
132–135 (1969).

(ENGLISH). CHEMISTRY DIVISION,
NATIONAL NUCLEAR RESEARCH CENTRE,
PELINDABA.

9525 Lobanov, E. M., Mamadzhanov, F.
I., Chubarov, L. B.

**Rapid activation gamma
spectrometric method for
determining some elements in
layers of crystalline quartz.**

Dokl. Akad. Nauk Tadzh. SSR, **12**,
No. 6, 37–39 (1969).

(RUSSIAN). FIZIKO–TEKHNICHESKII
INSTITUT IM S.U. UMAROVA,
DUSHANBE, USSR.

9526 Sattarov, M., Talanin, Y. N.,

Inoyatov, N. S., Turdalieva, T.
E.

**Activation method for determining
chromium and aluminum in
catalysis.**

Uzb. Khim. Zh., **13**, No. 1, 21–23
(1969).

(RUSSIAN). INSTITUT YADERNOI
FIZIKI, TASHKENT, USSR.

9527 Lange, H. H., Rasmussen, E. G.

Neutron activation analysis.

Tandlaegebladet, **73**, 739–757
(September 1969).

(DANISH) (ENGLISH SUMMARY).
DENMARK.

9528 Genaeva, L. I., Elpidinskii, A.

V., Kashkarov, L. L., Yukina, L.
V.

**Determination of uranium and
thorium in ultrapure materials
designated for the preparation of
low–background detectors.**

Kosm. Luchi, No. 11, 182–184
(1969).

(RUSSIAN) (ENGLISH SUMMARY).
RUSSIA.

9529 Mc Caslin, J. B., Smith, A. R.

**Radiation measurements and
shielding study of the Berkeley
27–inch helium–3 cyclotron.**

UCRL–19374, 13p. (October 1969).

(ENGLISH). LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIFORNIA.

9530 Bjorlykke, K., Brunfelt, A. O.

**Autoradiography of neutron
activated rock slabs.**

Chem. Geol., **6**, No. 3, 233–237
(1970).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). INSTITUTE FOR
GEOLOGY, UNIVERSITY OF OSLO,
OSLO, NORWAY.

9531 Bramblett, R. L.

**Use of electron accelerators for
nondestructive assay of nuclear
materials.**

Int. J. Nondestruct. Test., **2**,
99–127 (September 1970).

(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIFORNIA.

9532 Mosulishvili, L. M., Kuchava, N.
E., Ginturi, E. N.

**Neutron activation analysis of
some mineral waters of Georgia.**
Soobshch. Akad. Nauk Gruz. SSR,
59, No. 1, 93–96 (1970).

(RUSSIAN) (ENGLISH SUMMARY).
INSTITUTE OF PHYSICS, TBILISI,
USSR.

9533 Watt, J. S.

**Current and potential applications
of radioisotope x-ray and neutron
techniques of analysis in the
mineral industry.**

Proc. Aust. Inst. Min. Met., No.
233, 69–77 (March 1970).

(ENGLISH). ISOTOPE APPLICATIONS
RESEARCH SECTION, AUSTRALIAN
ATOMIC ENERGY COMMISSION RESEARCH
ESTABLISHMENT, LUCAS HEIGHTS,
N.S.W.

9534 Harbottle, G.

**Neutron activation analysis of
potsherds from Knossos and
Mycenae.**

Archaeometry, **12**, 23–34 (February
1970).

(ENGLISH). CHEMISTRY DEPARTMENT,
BROOKHAVEN NATIONAL LABORATORY,
UPTON, N.Y.

9535 Salamon, A., Szabo, E.

**Use of ion accelerators for
activation analysis.**

Kem. Kozlem., **33**, No. 2, 179–198
(1970).

(HUNGARIAN). RESEARCH INSTITUTE
FOR APPLIED PHYSICS, BUDAPEST,
HUNGARY.

9536 Veres, A., Pavlicsek, I.

**Nuclear photoactivation studies
with an 80-kCi ⁶⁰Co gamma source.**
Kem. Kozlem., **33**, No. 3, 243–245
(1970).

(HUNGARIAN). MAGYAR TUDOMANYOS
AKADEMIA IZOTOP INTEZETE,
BUDAPEST, HUNGARY.

9537 Ehmann, W. D., Morgan, J. W.

**Precise non-destructive
determination of some major
elements in lunar material by 14
MeV neutron activation.**

CONF-700322, Second Oak Ridge
Conference on the Use of Small
Accelerators for Teaching and
Research, March 23–25, 1970,
205–220 (October 1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

9538 Kuykendall, W. E., Hoffman, B. W.,
Wainerdi, R. E.

**Analysis of oceanographic samples
by 14 MeV neutron activation.**

CONF-700322, *Second Oak Ridge
Conference on the Use of Small
Accelerators for Teaching and
Research, March 23–25, 1970*,
221–230 (October 1970).

(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M LABORATORY, COLLEGE STATION,
TEXAS.

9539 Kenna, B. T.

**Studies in fast neutron activation
analysis.**

CONF-700322, *Second Oak Ridge
Conference on the Use of Small
Accelerators for Teaching and
Research, March 23–25, 1970*,
231–248 (October 1970).

(ENGLISH). SANDIA LABORATORIES
AND DEPARTMENT OF CHEMISTRY,
UNIVERSITY OF NEW MEXICO,
ALBUQUERQUE, NEW MEXICO.

9540 Wicker, E. E., Nardoizzi, M. J.

**The application of neutron
generators in the steel industry.**

CONF-700322, *Second Oak Ridge
Conference on the Use of Small
Accelerators for Teaching and*

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Research, March 23–25, 1970,
249–257 (October 1970).

(ENGLISH). APPLIED RESEARCH
LABORATORY, UNITED STATES STEEL
CORPORATION, MONROEVILLE,
PENNSYLVANIA.

9541 Mapper, D., Smales, A. A.

**Recovered extraterrestrial
material.**

Analytical Chemistry in Space,
Wainerdi, R.E. (Ed.),
International Series of
Monographs in Analytical
Chemistry, 35, First Edition,
209–275, Pergamon Press (1970).

(ENGLISH). ANALYTICAL SCIENCES
DIVISION, AERE, HARWELL,
BERKSHIRE, ENGLAND.

9542 Ehmann, W. D.

**Radiochemistry as applied to
geochemical problems. Neutron
activation analysis. Progress
Report, August 1, 1969–July 31,
1970.**

ORO-2670-40, 27p. (October 1,
1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.

9543 Schmitt, R. A., Linn, T. A.,
Wakita, H.

**The determination of fourteen
common elements in rocks via
sequential instrumental
activation analysis.**

Radiochim. Acta, 13, No. 4,
200–212 (1970).

(ENGLISH) (GERMAN AND FRENCH
SUMMARIES). DEPARTMENT OF
CHEMISTRY AND RADIATION CENTER,
OREGON STATE UNIVERSITY,
CORVALLIS, OREGON.

9544 Jurs, P. C., Isenhour, T. L.

**An analog computer controlled
gamma-ray spectrometer for
comparative activation analysis.**

Nucl. Appl. Technol., 9, 584–590
(October 1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY. UNIVERSITY OF
WASHINGTON, SEATTLE, WASHINGTON.

9545 Armson, F. J., Bennett, H. L.

**Determination of oxygen in steel
by neutron activation using the
Analox.**

J. Iron Steel Inst., London, 208,
Part 8, 748–751 (1970).

(ENGLISH). GKN GROUP
TECHNOLOGICAL CENTRE,
WOLVERHAMPTON, ENGLAND.

9546 Neider, R., Reimers, P., Santner,
E., Schmitt, B. F.

**Use of a (d,T)–neutron generator
for activation analysis.**

**Practical methods for chemical
materials testing.**

Atomwirt. Atomtech., 15, 382–385
(August 1970).

(GERMAN). BUNDESANSTALT FÜR
MATERIALPRUFUNG, BERLIN, GERMANY.

9547 Retief, D. H., Cleaton-Jones, P.
E., Turkstra, J.

**The quantitative determination of
Ca, Na, Al, Mg and Cl in normal
enamel and dentine by neutron
activation and high resolution
gamma spectrometry.**

J. Dental Assn. S. Africa, 25, No.
6, 188–192 (1970).

(ENGLISH). DENTAL RESEARCH UNIT
OF THE UNIVERSITY OF
WITWATERSRAND AND THE SOUTH
AFRICAN MEDICAL RESEARCH COUNCIL,
JOHANNESBURG.

9548 Retief, D. H., Cleaton-Jones, P.
E., Turkstra, J., De Wet, W. J.

**The quantitative analysis of Cr,
Ba, Sb, Ag, Zn, Co and Fe in
normal human enamel and dentine
by neutron activation and high
resolution gamma spectrometry.**

J. Dental Assn. S. Africa, 25, No.
10, 370–375 (1970).

(ENGLISH). DENTAL RESEARCH UNIT
OF THE UNIVERSITY OF THE
WITWATERSRAND AND THE SOUTH
AFRICAN MEDICAL RESEARCH COUNCIL,
JOHANNESBURG.

9549 Uken, E. A.

Neutron-activation analysis.

Miner. Sci. Eng., 2, No. 2, 24–34
(1970).

(ENGLISH). NATIONAL INSTITUTE

ACTIVATION ANALYSIS—ACCESSION NUMBERS

FOR METALLURGY, JOHANNESBURG,
SOUTH AFRICA.

- 9550 Nelp, W. B., Palmer, H. E.,
Murano, R., Pailthorp, K. G., Hinn,
G. M., Rich, C., Williams, J. L.,
Rudd, T. G., Denney, J. D.

**Measurement of total body calcium
(bone mass) in vivo with the use
of total body neutron activation
analysis.**

J. Lab. Clin. Med., **76**, 151–162
(July 1970).

(ENGLISH). DIVISION OF NUCLEAR
MEDICINE, DEPARTMENTS OF MEDICINE
AND RADIOLOGY, AND THE BATTELLE
NORTHWEST LABORATORIES,
ENVIRONMENTAL AND LIFE SCIENCES
DIVISION, RICHLAND, AND THE
UNIVERSITY OF WASHINGTON SCHOOL
OF MEDICINE, SEATTLE, WASHINGTON.

- 9551 Nishimura, S.

**Determination of uranium contents
of standard rocks by
fission-track registration in
muscovite.**

Radioisotopes, **19**, No. 4, 194–196
(1970).

(ENGLISH). DEPARTMENT OF
GEOLOGICAL SCIENCES, UNIVERSITY
OF OSAKA PREFECTURE, JAPAN.

- 9552 Burge, K. M., Winkelmann, R. K.

**Mercury pigmentation. An electron
microscopic study.**

Arch. Dermatol., **102**, 51–61 (July
1970).

(ENGLISH). UNIVERSITY OF
MINNESOTA, ROCHESTER, MINNESOTA.

- 9553 Rhodes, J. R.

**Radioisotope neutron activation
for on-stream process analysis.**

Chem. Eng. Progr., Symp. Ser., **66**,
No. 106, 81–87 (1970).

(ENGLISH). COLUMBIA SCIENTIFIC
RESEARCH INSTITUTE, AUSTIN,
TEXAS.

- 9554 Czitober, H., Frischauf, H.,
Leodolter, I.

**Quantitative investigations:
Analysis of silver by neutron
activation in a case of**

generalized argyrosis.

Virchows Arch A, **350**, 44–51
(1970).

(GERMAN) (ENGLISH SUMMARY).
MEDIZINISCHE UNIVERSITÄTSKLINIK
IN WIEN, AUSTRIA.

- 9555 Das, H. A.

**Activation analysis and tracer
techniques.**

Klei Keram., **20**, No. 7, 179–191
(1970).

(DUTCH) (ENGLISH SUMMARY).
REACTOR CENTRUM NEDERLAND.

- 9556 Weber, D. A.

**Quantitative thermal neutron
activation analysis in the mouse
and in human cadaver specimens.**

UR-49-1347. Thesis, 113p. (1970).

(ENGLISH). THE UNIVERSITY OF
ROCHESTER, ROCHESTER, N.Y.

- 9557 Guinn, V. P., Hackleman, R. P.,

Lukens, H. R., Schlesinger, H. L.

**Applications of neutron activation
analysis in scientific crime
investigation. Annual Report,
June 1, 1968–May 31, 1969.**

GA-9822, 94p. (21 January 1970).

(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIFORNIA.

- 9558 Pretorius, R., Wainerdi, R. E.

**Nuclear activation analysis for
ultrasensitive determinations of
environmental pollutants.**

S. Afr. Med. J., **44**, 169–171 (14
February 1970).

(ENGLISH). SOUTHERN UNIVERSITIES
NUCLEAR INSTITUTE, FAURE, SOUTH
AFRICA, AND ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.

- 9559 Mahdavi, A.

**Instrumental neutron activation
analysis of some rock-forming
minerals.**

*Quart. Bull. Fac. Sci., Tehran
Univ.*, No. 3, 24–31 (1970).

(ENGLISH). TEHRAN UNIVERSITY
NUCLEAR CENTRE, TEHRAN, IRAN.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9560 Miller, F. J., Sayre, E. V.,
Keisch, B.
**Isotopic methods of examination
and authentication in art and
archaeology.**
ORNL-IIC-21, 65p. (October 1970).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 9561 Ehmann, W. D., Mc Kown, D. M.,
Morgan, J. W.
**Coincidence counting applied to
the activation analysis of
meteorites and rocks.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
267–283, Proceedings of the NATO
Advanced Study Institute,
Kjeller, Norway, September 7–12,
1970, Universitetsforlaget, Oslo
(1971).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 9562 Ehmann, W. D., Showalter, D. L.
**Elemental abundance trends in the
Australite strewn field by
non-destructive neutron
activation.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
253–260, Proceedings of the NATO
Advanced Study Institute,
Kjeller, Norway, September 7–12,
1970, Universitetsforlaget, Oslo
(1971).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 9563 Naughton, W. F., Jester, W. A.
**Pulsed-neutron activation analysis
system for short-lived
radioisotopes.**
Nucl. Appl. Technol., **9**, No. 6,
851–855 (1970).
(ENGLISH). NUCLEAR ENGINEERING
DEPARTMENT, THE PENNSYLVANIA
STATE UNIVERSITY, UNIVERSITY
PARK, PENNSYLVANIA.
- 9564 Perkins, R. W., Rancitelli, L. A.,
Cooper, J. A., Brown, R. E.
**Laboratory and environmental
mineral analysis using a
californium-252 neutron source.**
Nucl. Appl. Technol., **9**, No. 6,
861–874 (1970).
(ENGLISH). ENVIRONMENTAL AND
LIFE SCIENCES DIVISION, BATTELLE
MEMORIAL INSTITUTE, PACIFIC
NORTHWEST LABORATORIES, RICHLAND,
WASHINGTON.
- 9565 Cooper, J. A., Rancitelli, L. A.,
Perkins, R. W.
**An anticoincidence-shielded Ge(Li)
gamma-ray spectrometer and its
application to radioanalytical
chemistry problems.**
J. Radioanal. Chem., **6**, No. 1,
147–163 (September 1970).
(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORIES, RICHLAND,
WASHINGTON.
- 9566 Eden, Y.
**Neutron activation analysis by
combined capture and decay
gamma-spectrum method.**
J. Radioanal. Chem., **6**, No. 1,
165–175 (September 1970).
(ENGLISH). SOREQ NUCLEAR
RESEARCH CENTRE, YAVNE, ISRAEL.
- 9567 Cooper, J. A.
**Evaluation of Ge(Li) Compton
suppression spectrometers for
non-destructive radiochemical
analysis.**
J. Radioanal. Chem. **6**, No. 1,
177–184 (September 1970).
(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORIES, RICHLAND,
WASHINGTON.
- 9568 Shah, K. R., Filby, R. H., Haller,
W. A.
**Determination of trace elements in
petroleum by neutron activation
analysis. I. Determination of Na,
S, Cl, K, Ca, V, Mn, Cu, Ga and
Br.**
J. Radioanal. Chem., **6**, No. 1,
185–192 (September 1970).
(ENGLISH). WASHINGTON STATE
UNIVERSITY, NUCLEAR RADIATION
CENTER, PULLMAN, WASHINGTON.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9569 Menapace, L. M., Voigt, A. F.
Thermal neutron activation analysis for potassium, holmium and lanthanum in tungsten bronzes.
J. Radioanal. Chem., **6**, No. 1, 219–226 (September 1970).
 (ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND CHEMISTRY DEPARTMENT, IOWA STATE UNIVERSITY, AMES, IOWA.
 for determining the composition of micro-ingots of multi-component alloys.
J. Radioanal. Chem., **6**, 431–436 (December 1970).
 (ENGLISH). THE VERNADSKY GEOCHEMICAL AND ANALYTICAL INSTITUTE OF THE SOVIET ACADEMY OF SCIENCES, MOSCOW, USSR.
- 9570 Girardi, F., Guzzi, G., Di Cola, G.
The assessment of radiochemical separation procedures by means of computational techniques.
J. Radioanal. Chem., **6**, 359–377 (December 1970).
 (ENGLISH). CHEMISTRY DEPARTMENT, NUCLEAR CHEMISTRY LABORATORY, SCIENTIFIC INFORMATION PROCESSING CENTER, EURATOM, JOINT NUCLEAR RESEARCH CENTER, ISPRA ESTABLISHMENT, ISPRA, VARESE, ITALY.
- 9571 Van Grieken, R., Speecke, A., Hoste, J.
Simultaneous determination of silicon and phosphorus in cast iron by 14 MeV neutron activation analysis.
J. Radioanal. Chem., **6**, 385–398 (December 1970).
 (ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 9572 Shah, K. R., Filby, R. H., Haller, W. A.
Determination of trace elements in petroleum by neutron activation analysis. II. Determination of Sc, Cr, Fe, Co, Ni, Zn, As, Sb, Eu, Au, Hg and U.
J. Radioanal. Chem., **6**, 413–422 (December 1970).
 (ENGLISH). WASHINGTON STATE UNIVERSITY, NUCLEAR RADIATION CENTER, PULLMAN, WASHINGTON.
- 9573 Lambrev, V. G., Nekrasov, V. V., Akalaev, G. G., Rodin, N. N., Dneprovsky, I. C.
Instrumental activation analysis
- 9574 Mazagol, L., Tousset, J., Boissier, M.
Determination of the internal and superficial oxygen content of molybdenum obtained using 54 MeV α particles and low energy deuterons.
 LYCEN-7076, 14p. (28 October 1970).
 (FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE DE LYON, VILLEURBANNE AND LABORATOIRE DE PHYSIQUE DU SOLIDE, CENTRE D'ETUDES NUCLEAIRES, GRENOBLE, FRANCE.
- 9575 Weitman, J., Daverhog, N., Farvolden, S.
A new boron analysis method.
Nucl. Appl. Technol., **9**, No. 3, 408–415 (1970).
 (ENGLISH). AKTIEBOLAGET ATOMENERGI, STUDSVIK, SWEDEN.
- 9576 Tiwari, P. N.
Rapid and non-destructive determination of protein in grain samples by prompt /n, γ / technique.
Radiochem. Radioanal. Letters, **6**, No. 6, 363–370 (1971).
 (ENGLISH). DEPARTMENT OF RADIOBIOLOGY, GUSTAF WERNER INSTITUTE, UNIVERSITY OF UPPSALA, UPPSALA, SWEDEN.
- 9577 Dzhemardyan, Y. A., Mikhailov, G. I., Starchik, L. P.
Isotopic analysis of lithium and boron based on γ -quanta accompanying ${}^7\text{Li}(\alpha, \alpha'){}^7\text{Li}$, ${}^{10}\text{B}(\alpha, p){}^{13}\text{C}$ nuclear reactions.
Radiokhimiya, **12**, No. 5, 787–788 (1970).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9578 Fomenko, V. T., Velyus, L. M., Vasilev, S. S., Fomenko, I. N.
Neutron activation analysis of copper concentrates.
Industrial Laboratory, **36**, No. 11, 1734–1736 (November 1970).
 (ENGLISH TRANSLATION).
 MAGNITOGORSKI NOSOV MINING AND METALLURGICAL INSTITUTE, USSR.
- 9579 Lisovskii, I. P., Smakhtin, L. A.
Simultaneous determination of phosphorus and chlorine in organophosphorus compounds by activation with fast neutrons.
J. Anal. Chem., USSR, **25**, No. 8, 1400–1402 (August 1970).
 (ENGLISH TRANSLATION). L. YA. KARPOV PHYSICOCHEMICAL INSTITUTE, MOSCOW, USSR.
- 9580 Lisovskii, I. P., Smakhtin, L. A.
Rapid determination of sodium in organophosphorus compounds by activation with fast neutrons.
J. Anal. Chem., USSR, **25**, No. 8, 1403–1405 (August 1970).
 (ENGLISH TRANSLATION). L. YA. KARPOV PHYSICOCHEMICAL INSTITUTE, MOSCOW, USSR.
- 9581 Oblivantsev, A. N., Mamynova, L. A., Meshcheryakov, R. P., Stolbov, Y. M.
Chemical preparation of natural samples for a deuteron activation measurement of the isotopic calcium composition.
J. Anal. Chem., USSR, **25**, No. 9, 1568–1570 (September 1970).
 (ENGLISH TRANSLATION).
 SCIENTIFIC-RESEARCH INSTITUTE OF NUCLEAR PHYSICS, ELECTRONICS, AND AUTOMATICS, TOMSK POLYTECHNICAL INSTITUTE, USSR.
- 9582 Zaitsev, E. I., Dneprovskii, I. S., Sotskov, Y. P., Laptev, V. G.
Activation determination of tantalum in minerals and rocks by means of a Ge(Li) spectrometer.
J. Anal. Chem., USSR, **25**, No. 10, 1651–1655 (October 1970).
 (ENGLISH TRANSLATION). INSTITUTE OF MINERALOGY, GEOCHEMISTRY, AND
- CRYSTAL CHEMISTRY OF RARE METALS, MOSCOW, USSR.
- 9583 Filippova, N. V., Smakhtin, L. A., Miglina, N. V.
Neutron activation determination of aluminum, chlorine, copper, sodium, and manganese in high purity nitric acid.
J. Anal. Chem., USSR, **25**, No. 12, 2001–2006 (December 1970).
 (ENGLISH TRANSLATION). L. YA. KARPOV PHYSICOCHEMICAL INSTITUTE, USSR.
- 9584 Prokopchik, V. I.
Optimal conditions for neutron activation analysis for continuous determination of fluorite in a current of slurry.
Soviet Atomic Energy, **29**, No. 1, 737–738 (July 1970).
 (ENGLISH TRANSLATION). RUSSIA.
- 9585 Potapeva, L. E., Kalashnikova, V. I.
Activation analysis determination of the silver content in microcrystal centers in a photographic emulsion.
Soviet Atomic Energy, **29**, No. 2, 819–820 (August 1970).
 (ENGLISH TRANSLATION). RUSSIA.
- 9586 Debrun, J. L., Barrandon, J. N., Albert, P.
Determination of vanadium, niobium, and sulfur by proton-activation.
Ann. Chim. (Paris), **5**, No. 5, 357–366 (1970).
 (FRENCH) (ENGLISH SUMMARY).
 CENTRE D'ETUDES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, FRANCE.
- 9587 Adamek, A., Severa, F.
A complementary to 14 MeV neutron generator: Automatic system for the control of the short-lived isotope analysis equipment.
Czech. J. Phys., **20**, 1209–1213 (1970).
 (ENGLISH). INSTITUTE OF PHYSICS,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

SLOVAK ACADEMY SCIENCES,
BRATISLAVA, CZECHOSLOVAKIA.

A. A., Pronman, I. M.

Neutron-activation process for the rapid determination of carbon content.

Dokl. Akad. Nauk SSSR, **196**, No. 3, 570-572 (1971).

(RUSSIAN). GOSUDARSTVENNYI NAUCHNO-ISSLEDOVATELSKII I PROEKTNYI INSTITUT REDKOMETALLICHESKOI PROMYSHLENNOSTI, MOSKVA, USSR.

9588 Hayward, C. C., Oldham, G., Ware, A. R.

Fast neutron activation analysis of trace levels of lead in a non-aqueous flowing system.

Radiochem. Radioanal. Letters, **6**, No. 6, 381-388 (1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY, LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, LOUGHBOROUGH, U.K.

9594 Fedoroff, M.

Calculation design of the optimal irradiation conditions and detection of activation analysis radioactivity.

Nucl. Instruments Methods, **91**, No. 2, 173-187 (1971).

(FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY/SEINE, FRANCE.

9589 Wasson, J. T.

Ni, Ga, Ge, and Ir in the metal of iron meteorites with silicate inclusions.

Geochim. Cosmochim. Acta, **34**, 957-964 (September 1970).

(ENGLISH). INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA.

9595 Engelmann, C.

Effect of target nature and thickness on the yield of slowed photons useable for (γ ,n) activation reactions.

Nucl. Instruments Methods, **91**, No. 2, 189-194 (1971).

(FRENCH) (ENGLISH SUMMARY). DEPARTEMENT DE PHYSICO CHIMIE, SERVICE DE PHYSICO-CHIMIE APPLIQUEE, GROUPE DE PHYSIQUE ANALYTIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, FRANCE.

9590 Brune, D., Wester, P. O.

The determination of iodine in thyroid gland with epithermal neutrons.

Anal. Chim. Acta, **52**, 372-373 (November 1970).

(ENGLISH). AB ATOMENERGI, STUDSVIK, SWEDEN.

9596 Livingston, H. D.

Nondestructive neutron activation analysis of calcium-atherosclerotic lesion regression studies.

Trans. Amer. Nucl. Soc., **14**, No. 1, 98 (1971).

(ENGLISH). BOWMAN GRAY SCHOOL OF MEDICINE.

9591 Buzzelli, G., Mc Donald, K.

Microdetermination of fluorine in high-purity tungsten metal by photoactivation analysis.

GA-10125, 9p. (4 November 1970).

(ENGLISH). GULF GENERAL ATOMIC, SAN DIEGO, CALIFORNIA.

9592 Kienberger, C. A., Caylor, J. D.

Automatic sample changer for the beryllium analyzer.

Y-1744, 15p. (11 January 1971).

(ENGLISH). UNION CARBIDE CORPORATION, NUCLEAR DIVISION, OAK RIDGE, TENNESSEE.

9597 Wood, D. E., Doty, W. H., Schneider, E. E.

A neutron activation system for the analysis of protein in food products.

Trans. Amer. Nucl. Soc., **14**, No. 1, 98-99 (1971).

(ENGLISH). RALSTON PURINA.

9593 Tustanovskii, V. T.,

Andryushchenko, V. I., Volgemut,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9598 Podolsky, S., Cardarelli, J. A.,
Burrows, B. A.
**Application of neutron activation
to immunoassay of insulin.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 99–100 (1971).
(ENGLISH). VA HOSPITAL AND
BOSTON UNIVERSITY SCHOOL OF
MEDICINE, BOSTON.
- 9599 Mc Neill, K. G., Cabeza, L.,
Harrison, J. E.
**Pu–Be sources in in vivo neutron
activation analysis.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 100 (1971).
(ENGLISH). UNIVERSITY OF
TORONTO, TORONTO, ONT., CANADA.
- 9600 Comar, D.
**Present and future role of
activation analysis in medicine.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 101 (1971).
(ENGLISH). CEA, ORSAY, FRANCE.
- 9601 Bird, E. D.
**Activation analysis in biology and
medicine.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 102 (1971).
(ENGLISH). BOWMAN GRAY SCHOOL OF
MEDICINE.
- 9602 Jervis, R. E.
**Activation analysis applications
to public health problems.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 102–103 (1971).
(ENGLISH). UNIVERSITY OF
TORONTO, TORONTO, ONT., CANADA.
- 9603 Ricci, E.
**Stable tracers: Determination,
medical use and potential in
studies of biological effects of
chronic, low-dose irradiation.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 103–104 (1971).
(ENGLISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 9604 Jervis, R. E.
**Some logistic problems in
presenting activation analysis
evidence in courts.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 105 (1971).
(ENGLISH). UNIVERSITY OF
TORONTO, TORONTO, ONT., CANADA.
- 9605 Guinn, V. P., Ramos, J. C.
**Activation analysis of mixtures of
hair from several persons.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 105–106 (1971).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, IRVINE, CALIFORNIA.
- 9606 Schlesinger, H. L., Lukens, H. R.
**Probabilities associating hand
barium and antimony levels with
handgun firing.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 106 (1971).
(ENGLISH). GEES.
- 9607 Lukens, H. R., Schlesinger, H. L.
**Statistics of paint comparisons by
neutron activation analysis.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 106–107 (1971).
(ENGLISH). GULF RADIATION
TECHNOLOGY, SAN DIEGO,
CALIFORNIA.
- 9608 Williamson, T. G., Harrison, W. W.
NAA and SSMS for forensic uses.
Trans. Amer. Nucl. Soc., **14**, No.
1, 107–108 (1971).
(ENGLISH). UNIVERSITY OF
VIRGINIA, CHARLOTTESVILLE,
VIRGINIA.
- 9609 Lindfors, B., Kuusi, J., Jauho, P.
**Diffusion of Na-ion from
bisulphite cooking liquor into
wood chips.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 108–109 (1971).
(ENGLISH). UNIVERSITY OF
TECHNOLOGY, HELSINKI, FINLAND.
- 9610 Iddings, F. A.
**Field activation analysis:
Problems and some solutions.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 109 (1971).
(ENGLISH). LOUISIANA STATE
UNIVERSITY, BATON ROUGE, LA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9611 Marsh, R. H., Becknell, D. E.
Neutron activation analysis of glass, automobile exhaust, and water.
Trans. Amer. Nucl. Soc., **14**, No. 1, 109–110 (1971).
 (ENGLISH). FORD MOTOR COMPANY.
- 9612 Williamson, T. G., Jenkins, R. W., Newman, R. H., Carpenter, R. D.
Analysis of tobacco and tobacco smoke by neutron activation.
Trans. Amer. Nucl. Soc., **14**, No. 1, 110–111 (1971).
 (ENGLISH). PHILIP MORRIS RESEARCH CENTER.
- 9613 Augustson, R. H.
Accelerator neutron sources for nondestructive assay of fissionable materials.
Trans. Amer. Nucl. Soc., **14**, No. 1, 113–114 (1971).
 (ENGLISH). LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 9614 Rundquist, D. E.
Photofission reactions from nondestructive assay of fissionable materials.
Trans. Amer. Nucl. Soc., **14**, No. 1, 114 (1971).
 (ENGLISH). GULF RADIATION TECHNOLOGY, SAN DIEGO, CALIFORNIA.
- 9615 Wiggins, P. F., Athow, K.
Neutron-capture gamma-ray studies of chlorine in salt water using ^{252}Cf .
Trans. Amer. Nucl. Soc., **14**, No. 1, 129–130 (1971).
 (ENGLISH). U.S. NAVAL ACADEMY, ANNAPOLIS, MARYLAND.
- 9616 Carpenter, B. S.
The use of the nuclear track technique for boron and uranium analyses in botanical material.
Trans. Amer. Nucl. Soc., **14**, No. 1, 130–131 (1971).
 (ENGLISH). NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 9617 Henkelmann, R., Pfeffermann, E., Born, H. J., Aumann, D. C.
Analytical determination of short-lived nuclides by (n, n') reaction for the determination of yttrium and lead.
Radiochem. Radioanal. Letters, **6**, No. 1, 21–30 (1971).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN UNIVERSITÄT MÜNCHEN, MÜNCHEN, GERMANY.
- 9618 Rosenberg, J., Wiik, H. B.
Instrumental activation analysis of 11 lanthanide elements in Apollo 12 lunar samples.
Radiochem. Radioanal. Letters, **6**, No. 1, 45–55 (1971).
 (ENGLISH). HELSINKI UNIVERSITY OF TECHNOLOGY, REACTOR LABORATORY, OTANIEMI, FINLAND AND FINNISH RESEARCH COUNCIL FOR SCIENCES, HELSINKI, FINLAND.
- 9619 Nadkarni, R. A., Ehmann, W. D.
Neutron activation analysis of wheat flour samples.
Radiochem. Radioanal. Letters, **6**, No. 1, 89–96 (1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 9620 Margosis, M., Lambert, J. P. F.
Determination of zinc in pharmaceutical products by neutron activation analysis.
J. Pharm. Sciences, **60**, No. 4, 592–594 (April 1971).
 (ENGLISH). NATIONAL CENTER FOR ANTIBIOTIC ANALYSIS AND DIVISION OF FOOD CHEMISTRY AND TECHNOLOGY, FOOD AND DRUG ADMINISTRATION, DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, WASHINGTON, D.C.
- 9621 Iyer, R. K., Jagannadha Rao, N., Krishnamoorthy, K. R., Sankar Das, M.
Study of trace element distribution in Indian potsherds by neutron activation analysis.
 B.A.R.C./I-105, 14p. (1971).
 (ENGLISH). BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9622 Baedeker, P. A.
Digital methods of photopeak integration in activation analysis.
Anal. Chem., **43**, No. 3, 405–410 (March 1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA.
- 9623 Lambrev, V. G., Akalaev, G. G., Nekrasov, V. V.
Instrumental activation analysis of Au, Br, Mn, Na, Ta and W using a Ge(Li) detector.
Radiochem. Radioanal. Letters, **6**, No. 3, 133–138 (1971).
 (ENGLISH). LABORATORY OF ACTIVATION ANALYSIS, MINISTRY OF THE CHEMICAL INDUSTRY, MOSCOW, USSR.
- 9624 Bate, L. C.
Loss of mercury from containers in neutron activation analysis.
Radiochem. Radioanal. Letters, **6**, No. 3, 139–144 (1971).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 9625 Engelmann, C., Marschal, A.
Comments on the determination of carbon in high purity silicon by activation with gamma photons, deuterons, helions and alpha particles.
Radiochem. Radioanal. Letters, **6**, No. 3, 189–194 (1971).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ETUDE NUCLEAIRES DE SACLAY, DEPARTEMENT DE PHYSICO CHIMIE, GIF-SUR-YVETTE, FRANCE.
- 9626 Das, H. A., De Koning, J., Oosterom, M. G.
Determination of sodium in ultrabasic rocks.
Radiochem. Radioanal. Letters, **6**, No. 3, 203–209 (1971).
 (ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, NETHERLAND AND VENING MEINSZ LABORATORY FOR
- GEOPHYSICS AND GEOCHEMISTRY, UTRECHT, NETHERLAND.
- 9627 Vobecky, M., Frana, J., Randa, Z., Benada, J., Kuncir, J.
Analytical possibilities of reactor neutron activation method in nondestructive analysis of meteorites.
Radiochem. Radioanal. Letters, **6**, No. 4, 237–247 (1971).
 (ENGLISH). NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAK ACADEMY OF SCIENCES, REZ, PRAGUE AND INSTITUTE OF MINERAL RAW MATERIALS, KUTNA HORA, CZECHOSLOVAKIA.
- 9628 Coote, A. R., Bowers, J. M., Pearson, G. J.
Graphite irradiation capsules for thermal neutron activation analysis.
Radiochem. Radioanal. Letters, **6**, No. 4, 265–274 (1971).
 (ENGLISH). ATLANTIC OCEANOGRAPHIC LABORATORY, BEDFORD INSTITUTE, DARTMOUTH, NOVA SCOTIA, CANADA.
- 9629 Ingamells, C.O., Suhr, N. H., Tan, F. C., Anderson, D. H.
Barium and strontium in silicates. A study on the development of analytical methods.
Anal. Chim. Acta, **53**, 345–360 (February 1971).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). THE PENNSYLVANIA STATE UNIVERSITY, MINERAL CONSTITUTION LABORATORIES, UNIVERSITY PARK, PENNSYLVANIA.
- 9630 Elkady, A., Duffey, D., Wiggins, P. F.
Neutron capture γ -ray techniques for iron and gold in mixtures.
Anal. Chim. Acta, **54**, No. 1, 97–104 (1971).
 (ENGLISH). ATOMIC ENERGY COMMISSION, UNITED ARAB REPUBLIC, CAIRO, UAR, NUCLEAR ENGINEERING, UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND, AND NAVAL SYSTEMS ENGINEERING DEPARTMENT, U.S.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

NAVAL ACADEMY, ANNAPOLIS,
MARYLAND.

THE INSTITUTE OF BALNEOTHERA-
PEUTICS, KYUSHU UNIVERSITY.

- 9631 Jester, W. A., Prasad, K. N.
**Boron – polyethylene irradiation
containers for high energy
neutron activation analysis.**
Anal. Chem., **43**, No. 3, 481–484
(1971).
(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, THE PENNSYLVANIA
STATE UNIVERSITY, UNIVERSITY
PARK, PENNSYLVANIA.
- 9632 Lee, D. M., Lamb, J. F.,
Markowitz, S. S.
**Rapid, nondestructive method of
fluorine analysis by helium-3
activation.**
Anal. Chem., **43**, No. 4, 542–545
(1971).
(ENGLISH). DEPARTMENT OF
CHEMISTRY AND LAWRENCE RADIATION
LABORATORY, UNIVERSITY OF
CALIFORNIA, BERKELEY, CALIFORNIA.
- 9633 Berne, E., Bjornberg, B.,
Rosengren, B., Skjelbred, E.
**Identification of metals in tattoo
marks by activation analysis with
gamma spectrometry.**
Acta Dermato-Venereol., **42**,
149–152 (1962).
(ENGLISH) (FRENCH, GERMAN AND
SPANISH SUMMARIES). UNIVERSITY
OF GOTEBURG, SWEDEN.
- 9634 Kawakami, H.
**Determination of mercury in human
hair by neutron activation
analysis.**
Onken Kiyo, **20**, No. 3, 218–225
(September 1968).
(JAPANESE) (ENGLISH SUMMARY).
THE INSTITUTE OF BALNEOTHERA-
PEUTICS, KYUSHU UNIVERSITY.
- 9635 Kawakami, H.
**Determination of microgram amounts
of mercury in hot spring water by
neutron activation analysis.**
Onken Kiyo, **20**, No. 3, 226–233
(September 1968).
(JAPANESE) (ENGLISH SUMMARY).
- 9636 Babaev, A., Babakhodzhaev, S.,
Khaidarov, A., Khudaiberganov, U.
**Activation method for determining
zinc in igneous rocks.**
Dokl. Akad. Nauk Tadzh. SSR, **12**,
No. 9, 24–27 (1969).
(RUSSIAN). FIZIKO-TEKHNICHESKII
INSTITUT IM S. U. UMAROVA,
DUSHANBE, USSR.
- 9637 Hamada, S., Torizuka, K.,
Hamamoto, K., Mori, T., Morita,
R., Nakagawa, T., Konishi, J.
**Determination of free thyroxine in
human serum by neutron activation
analysis.**
Radioisotopes, **18**, 354–358
(September 1969).
(ENGLISH) (JAPANESE SUMMARY).
CENTRAL CLINICAL RADIOISOTOPE
DIVISION AND SECOND DIVISION OF
INTERNAL MEDICINE, KYOTO
UNIVERSITY SCHOOL OF MEDICINE,
KYOTO, JAPAN.
- 9638 Rakovic, M.
**Study of precipitation in neutron
activation analysis. IV.
Separation of arsenic (V) sulphide
or silver arsenate in
determination of arsenic in
biological material.**
Chem. Zvesti, **23**, 147–149 (1969).
(ENGLISH). DEPARTMENT OF MEDICAL
PHYSICS AND NUCLEAR MEDICINE,
MEDICAL FACULTY, CHARLES
UNIVERSITY, PRAGUE,
CZECHOSLOVAKIA.
- 9639 Goel, P. S.
**Determination of nitrogen in iron
meteorites.**
CONF-690916, *Proceedings of the
Chemistry Symposium, Chandigarh,*
September 23–26, 1969, 85–89
(1969).
(ENGLISH). CHEMISTRY DEPARTMENT,
INDIAN INSTITUTE OF TECHNOLOGY,
KANPUR, INDIA.
- 9640 Malvano, R., Buzzigoli, G., Costa,
A., Cottino, F.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Iodine determination in human and mouse tissues by neutron activation analysis.**
J. Nucl. Biol. Med., **13**, 71–79 (January–June 1970).
 (ENGLISH). JOINT RESEARCH UNIT SORIN (NUCLEAR RESEARCH CENTRE), SALUGGIA AND LABORATORY OF CLINICAL PHYSIOLOGY, CNR, PISA, AND MAURIZIANO HOSPITAL, TURIN, ITALY.
- 9641 Corbeanu, S.
Determination of the trace elements and rare earths in crop soils by neutron activation analysis.
Stiinta Solului, **7**, No. 1, 7–15 (1969).
 (ROMANIAN) (RUSSIAN, ENGLISH AND FRENCH SUMMARIES). ROMANIA.
- 9642 Asamov, K. A., Abdullaev, A. A., Zakhidov, A. S., Korshunov, Y. F., Sultanov, A.
Analysis of gold in water by (n, γ)-reactions by using ion-exchange chromatography.
Dokl. Akad. Nauk Uzb. SSR, **26**, No. 3, 26–27 (1969).
 (RUSSIAN). INSTITUT YADERNOI FIZIKI, TASHKENT, USSR.
- 9643 Zmijewska, W.
Determination of impurities in semiconductor grade silicon by neutron activation.
Chem. Anal. (Warsaw), **15**, No. 5, 1025–1032 (1970).
 (POLISH) (ENGLISH SUMMARY). DEPARTMENT OF ANALYTICAL CHEMISTRY, INSTITUTE OF NUCLEAR RESEARCH, WARSZAWA.
- 9644 Lee, C., Cho, W. J., Park, K. S.
Determination of dissolved uranium contents in hot spring waters of Korea.
J. Nucl. Sci. (Seoul), **9**, No. 1, Pt. 1, 17–19 (April 1970).
 (KOREAN) (ENGLISH SUMMARY). ATOMIC ENERGY RESEARCH INSTITUTE, SEOUL, KOREA.
- 9645 Baishya, N. K., Heslop, R. B.
A comparison of the use of cupferron and oxine in the substoichiometric determination of molybdenum by neutron activation.
Anal. Chim. Acta, **50**, No. 2, 209–217 (1970).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). CHEMISTRY DEPARTMENT, THE UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY, MANCHESTER, ENGLAND.
- 9646 Goel, P. S.
Determination of nitrogen in iron meteorites.
Geochim. Cosmochim. Acta, **34**, 932–935 (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, INDIAN INSTITUTE OF TECHNOLOGY, KANPUR, INDIA.
- 9647 Johansson, S. V., Plantin, L. O., Strandberg, P. O., Uusma, K.
Estimation of iron in human bone marrow with histological, chemical and neutron activation analysis.
Clin. Chim. Acta, **30**, No. 3, 549–558 (1970).
 (ENGLISH). DEPARTMENT OF CLINICAL CHEMISTRY AND DEPARTMENT OF MEDICINE OF THE KAROLINSKA SJUKHUSET AND KONING GUSTAF V'S FORESNINGSINSTITUT STOCKHOLM, SWEDEN.
- 9648 Hasanen, E.
Determination of mercury in biological material by neutron activation analysis.
Suomen Kemistilehti B, **43**, 251–254 (1970).
 (ENGLISH). REACTOR LABORATORY, TECHNICAL UNIVERSITY OF HELSINKI, OTANIEMI, FINLAND.
- 9649 Kim, J. I., Stark, H.
Activation analysis of mercury in human urine samples.
Radiochim. Acta, **13**, No. 4, 213–216 (1970).
 (ENGLISH) (GERMAN AND FRENCH

ACTIVATION ANALYSIS—ACCESSION NUMBERS

SUMMARIES). INSTITUT FUR
RADIOCHEMIE TH MUNCHEN, GERMANY.

1983-1985 (December 1970).
(ENGLISH TRANSLATION). RUSSIA.

- 9650 Ishida, K., Kawamura, S., Izawa, M.
Neutron activation analysis for mercury.
Anal. Chim. Acta, **50**, No. 2, 351-353 (1970).
(ENGLISH). LABORATORY FOR ANALYTICAL CHEMISTRY, FACULTY OF ENGINEERING, UNIVERSITY OF CHIBA, YAYOI-CHO, CHIBA, JAPAN AND CHEMISTRY DIVISION, NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, ANAGAWA-CHO, CHIBA, JAPAN.
- 9651 Heier, K. S., Brunfelt, A. O.
Concentration of Cs in high grade metamorphic rocks.
Earth Planetary Science Letters, **9**, 416-420 (1970).
(ENGLISH). MINERALOGISK-GEOLOGIS K MUSEUM, SARSGATE, OSLO, NORWAY.
- 9652 Matthews, A. D., Riley, J. P.
Determination of rhenium in sea water.
Anal. Chim. Acta, **51**, 455-462 (September 1970).
(ENGLISH). DEPARTMENT OF OCEANOGRAPHY, THE UNIVERSITY, LIVERPOOL, ENGLAND.
- 9653 Ohno, S., Suzuki, M., Yatazawa, M.
Simultaneous determination of copper and manganese in plants by neutron activation analysis.
Analyst (London), **95**, No. 1137, 995-999 (1970).
(ENGLISH). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, ANAGAWA, CHIBA-SHI AND FACULTY OF AGRICULTURE, NAGOYA UNIVERSITY, FURO-CHO, CHIKUSA-KU, NAGOYA, JAPAN.
- 9654 Lambrev, V. G., Vlasov, V. S., Myakinkova, T. V.
Neutron activation analysis of silicon tetrachloride for trace amounts of copper, zinc, manganese, antimony, and arsenic.
J. Anal. Chem., USSR, **25**, No. 12,
- 9655 Nozaki, T., Ichikawa, M., Sasuga, T., Inarida, M.
Neutron activation analysis of uranium in human bone, drinking water and daily diet.
J. Radioanal. Chem., **6**, No. 1, 33-40 (September 1970).
(ENGLISH). INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, YAMATO-MACHI, SAITAMA, JAPAN.
- 9656 Pfeifer, V.
Extraction of gallium from mixed acid solutions by tributyl phosphate and its application to activation analysis.
J. Radioanal. Chem., **6**, No. 1, 47-55 (September 1970).
(ENGLISH). INSTITUTE OF CHEMISTRY, REACTOR CENTRE SEIBERSDORF, OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE, VIENNA, AUSTRIA.
- 9657 Maenhaut, W., Adams, F., Hoste, J.
Determination of trace impurities in tin by neutron activation analysis.
J. Radioanal. Chem., **6**, No. 1, 83-95 (September 1970).
(ENGLISH). INSTITUTE FOR NUCLEAR SCIENCES, GHENT UNIVERSITY, GHENT, BELGIUM.
- 9658 Denechaud, E. B., Helmke, P. A., Haskin, L. A.
Analysis for the rare-earth elements by neutron activation and Ge(Li) spectrometry.
J. Radioanal. Chem., **6**, No. 1, 97-113 (September 1970).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.
- 9659 Allen, R. O., Haskin, L. A., Anderson, M. R., Muller, O.
Neutron activation analysis for 39 elements in small or precious geologic samples.
J. Radioanal. Chem., **6**, No. 1, 115-137 (September 1970).

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN AND MAX PLANCK INSTITUTE FOR NUCLEAR PHYSICS, HEIDELBERG, GERMANY.

Radiochem. Radioanal. Letters, **7**, 75-77 (1971).

(ENGLISH). PUSAT REAKTOR ATOM BANDUNG, INDONESIA.

9660 Byrne, A. R., Dermelj, M., Kosta, L.

The mercury content of some laboratory chemicals and materials determined by neutron activation analysis.

J. Radioanal. Chem., **6**, 325-330 (December 1970).

(ENGLISH). THE JOZEF STEFAN INSTITUTE, LJUBLJANA, AND FACULTY OF NATURAL SCIENCES, UNIVERSITY OF LJUBLJANA, YUGOSLAVIA.

9665 Gillette, R. K.

Investigations into the determination of mercury in copper.

MLM-1772, 12p. (21 December 1970)

(ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.

9661 Kiesl, W., Grass, F., Bockl, R., Ponta, U.

Cosmochemical abundances of trace elements in meteorites. I.

Determination of Sc, Te, Tl, Sr, Ba and Ta in chondrites.

J. Radioanal. Chem., **6**, 447-452 (December 1970).

(ENGLISH). ANALYTICAL INSTITUTE OF THE UNIVERSITY OF VIENNA, VIENNA, AUSTRIA.

9666 Pillay, K. K. S., Thomas, C. C., Sondel, J. A.

Activation analysis of airborne selenium as a possible indicator of atmospheric sulfur pollutants.

Environ. Sci. Technol., **5**, No. 1, 74-77 (1971).

(ENGLISH). WESTERN NEW YORK NUCLEAR RESEARCH CENTER, INC., BUFFALO, N.Y.

9662 Gorshkov, V. V., Mekhryusheva, L. I., Smakhtin, L. A.

Neutronic activation method for determining cobalt in magnetic ceramic materials.

Industrial Laboratory, **36**, No. 10, 1504-1507 (October 1970).

(ENGLISH TRANSLATION). KARPOV SCIENTIFIC-RESEARCH PHYSICO-CHEMICAL INSTITUTE, USSR.

9667 Baishya, N. K., Heslop, R. B.

The substoichiometric determination of tungsten by neutron activation and and isotope dilution analysis.

Anal. Chim. Acta, **53**, No. 1, 87-94 (1971).

(ENGLISH) (FRENCH AND GERMAN SUMMARIES). CHEMISTRY DEPARTMENT, THE UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY, MANCHESTER, ENGLAND.

9663 Kishikawa, T., Shinomiya, C.

Fast neutron flux close to the neutron generator target.

Radiochem. Radioanal. Letters, **7**, No. 1, 15-21 (1971).

(ENGLISH). DEPARTMENT OF INDUSTRIAL CHEMISTRY, FACULTY OF ENGINEERING, KUMAMOTO UNIVERSITY, KUMAMOTO, JAPAN.

9668 Behne, D.

The use of countercurrent electrolysis as a separation method in activation analysis.

Radiochem. Radioanal. Letters, **6**, No. 1, 39-43 (1971).

(ENGLISH). NUCLEAR CHEMISTRY DIVISION, HAHN-MEITNER INSTITUTE, BERLIN, GERMANY.

9664 Bowen, H. J. M.

Radioactivation analysis of tin ore.

9669 Dutilh, C. E., Das, H. A.

The determination of lead in milk powder.

Radiochem. Radioanal. Letters, **6**, No. 3, 195-201 (1971).

(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, NETHERLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9670 Baker, C. A., Pratchett, A. G.,
Williams, D. R.
**Photon activation analysis using
the electron linear accelerator
at Harwell.**
AERE-R-5363, 26p. (May 1967).
(ENGLISH). ANALYTICAL SCIENCES
DIVISION, ATOMIC ENERGY RESEARCH
ESTABLISHMENT, HARWELL,
BERKSHIRE, ENGLAND.
- 9671 Ohno, S., Suzuki, M., Sasajima,
K., Iwata, S.
**Determination of fluorine in urine
by photonuclear activation
analysis.**
NIRS-9, 67-68 (1970).
(ENGLISH). NATIONAL INSTITUTE OF
RADIOLOGICAL SCIENCES, CHIBA,
JAPAN.
- 9672 Roesmer, J.
Radiochemistry of mercury.
NAS-NS-3026 (Rev.), 202p.
(September 1970).
(ENGLISH). WESTINGHOUSE
ASTRONUCLEAR LABORATORY,
PITTSBURGH, PENNSYLVANIA.
- 9673 Stepanets, O. V., Yakovlev, Y. V.,
Alimarin, I. P.
**Activation determination of
impurities in yttrium and
molybdenum by means of extraction
displacement chromatography.**
J. Anal. Chem., USSR, **25**, No. 10,
1637-1641 (October 1970).
(ENGLISH TRANSLATION). V.I.
VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES OF
THE USSR, MOSCOW, USSR.
- 9674 Atlavin, A. B., Veveris, O. E.,
Dubinskaya, N. A.
**Neutron activation determination
of molybdenum in biological
materials.**
Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser., No. 6, 3-9
(1970).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUT FIZIKI AKADEMIIA NAUK
LATVIJAS SSR.
- 9675 Penaranda, F. E.
**Neutron activation of Portland
cements.**
AD-708024, 32p. (1968).
(ENGLISH). ARMED FORCES
RADIOBIOLOGY RESEARCH INSTITUTE,
BETHESDA, MARYLAND.
- 9676 Quittner, P.
**Peak area determination for Ge(Li)
detector data.**
Nuclear Instruments Methods, **76**,
115-124 (1969).
(ENGLISH). CENTRAL RESEARCH
INSTITUTE FOR PHYSICS, BUDAPEST,
HUNGARY.
- 9677 Bohannon, J. R., Verghese, K.,
Weaver, J. N.
**Neutron activation analysis in
water resources management in
North Carolina.**
PB-189161, 152p. (1969).
(ENGLISH). NORTH CAROLINA WATER
RESOURCES RESEARCH INSTITUTE,
RALEIGH, N.C.
- 9678 Gordon, C. M., Carr, R. A.,
Larson, R. E.
**The influence of environmental
factors on the sodium and
manganese content of barnacle
shells.**
Limnology Oceanography, **15**, No. 3,
461-466 (May 1970).
(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 9679 Bratter, P., Moller, P., Rosick,
U.
**Determination of the trace element
distribution in coexisting
calcite and dolomite by neutron
activation analysis.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
461-464, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
NATO Advanced Study Institute on
Activation Analysis in
Cosmochemistry and Geochemistry,
Kjeller, Norway, 7-12 September
1970, Universitetsforlaget, Oslo
(1971).
(ENGLISH). NUCLEAR CHEMISTRY

ACTIVATION ANALYSIS—BIBLIOGRAPHY

DIVISION, HAHN-MEITNER INSTITUTE,
BERLIN, WEST GERMANY.

9680 Parr, R. M.

**Instrumentation and data
processing for multi-element
activation analysis of biomedical
samples.**

*Radioaktive Isotope in Klinik und
Forschung*, IX, 97-108 (1970).

(ENGLISH) (FRENCH AND GERMAN
SUMMARY). INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA.

9681 Cheke, A., Nad, A., Sabo, E.

**Pulsed reactor potentialities for
neutron activation analysis.**

KFKI-70-25-NAC, 30p. (1970).

(RUSSIAN). MAGYAR TUDOMANYS
AKADEMIA KOZPONTI FIZIKAI KUTATO
INTEZETE BUDAPEST, HUNGARY.

9682 Ahmed, M. R., Abdulla, A. A.,
Al-Shahiry, G. Y.

**Determination of uranium content
in geological samples by neutron
activation.**

PH-3, 10p. (September 1970).

(ENGLISH). NUCLEAR RESEARCH
INSTITUTE, TUWAITHA, BAGHDAD,
IRAQ.

9683 Bone, S. J.

**Analysis for uranium by the
neutron-activation delayed-neutron
method.**

AAEC/TM-552, 2.17-2.19 (August
1970).

(ENGLISH). AUSTRALIAN ATOMIC
ENERGY COMMISSION RESEARCH
ESTABLISHMENT, LUCAS HEIGHTS,
N.S.W.

9684 Smakhtin, L. A., Merkulov, A. V.

**Cesium determinations in potassium
ore and salts by instrumental
activation analysis methods.**

Industrial Laboratory, 36, No. 12,
1896-1898 (December 1970).

(ENGLISH TRANSLATION). RUSSIA.

9685 Tustanovskii, V. T.,

Orifkhodzhaev, U.

Determination of hafnium in

**zirconium concentrates by
activation of samples with 14 MeV
neutrons.**

Industrial Laboratory, 36, No. 12,
1893-1895 (December 1970).

(ENGLISH TRANSLATION). RUSSIA.

9686 Leu, M. L., Strickland, G. T.,

Beckner, W. M., Chen, T. S. M.,
Wang, C. C., Yeh, S. J.

**Muscle copper, zinc, and manganese
levels in Wilson's disease:**

**Studies with the use of neutron
activation analysis.**

J. Lab. Clin. Med., 76, No. 3,
432-438 (September 1970).

(ENGLISH). NATIONAL TSING HUA
UNIVERSITY, TAIPEI, TAIWAN, CHINA.

9687 Espanol, C. E., Marafuschi, A. M.

**Use of 14-MeV neutrons for the
indirect determination of alumina
in sintered aluminum powder (SAP)
end products.**

An. Soc. Cient. Argent., 189, No.
1-2, 11-24 (1970).

(SPANISH) (ENGLISH SUMMARY).
FACULTAD DE INGENIERIA,
UNIVERSIDAD DE BUENOS AIRES,
BUENOS AIRES, ARGENTINA.

9688 Espanol, C. E., Marafuschi, A. M.

**Analysis of nuclear zirconium
alloys by activation.
Determination of oxygen,
manganese, hafnium, tantalum,
copper, and iron.**

An. Soc. Cient. Argent., 189, No.
3-4, 75-92 (1970).

(SPANISH) (ENGLISH SUMMARY).
FACULTAD DE INGENIERIA,
UNIVERSIDAD DE BUENOS AIRES,
BUENOS AIRES, ARGENTINA.

9689 Lukens, H. R., Fleishman, D. M.,
Mac Kenzie, J. K.

**A study to develop neutron
activation for measuring bone
calcium content.**

NASA CR-1606, 84p. (June 1970).

(ENGLISH). GULF GENERAL ATOMIC,
INC., SAN DIEGO, CALIFORNIA.

9690 Bendel, W. L., Numrich, S. K.

Survey on photon activation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- analysis using the NRL LINAC.**
AD-709901, 22p. (29 June 1970).
(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 9691 Engelmann, C.
**Study of activation analysis using
charged particles and γ photons.**
CEA-R-4072, 222p. (October 1970).
(FRENCH). FACULTE DES SCIENCES
D'ORSAY, UNIVERSITE DE PARIS.
- 9692 Aalto, H.
**Determination of the isotopic
ratio $^{238}\text{U}/^{235}\text{U}$ by neutron
activation.**
TKK-F-A-136, 31p. (15 December
1970).
(FINNISH) (ENGLISH SUMMARY).
REAKTORILABORATORIO, TEKNILLINEN
KORKEAKOULU, OTANIEMI, FINLAND.
- 9693 Zaichik, V. E., Krasnoschekov, G.
P., Letov, V. N., Ryabukhin, Y.
S.
**Quantitative Li^6 autoradiography
of metastases of Walker-256
carcinoma in the pulmonary
tissue.**
Meditinskaya Radiologiya, No. 2,
47-51 (1971).
(RUSSIAN) (ENGLISH SUMMARY).
LABORATORIYA RADIOAKTIVNYKH
MIKROELEMENTOV, INSTITUTA
MEDITSINSKOII RADIOLOGII AMH
SSSR.
- 9694 Wilkniss, P. E., Larson, R. E.
**Use of activation analysis to
determine the chemical
composition and origin of
particulates collected in the
marine atmosphere.**
*Nuclear Techniques in
Environmental Pollution*, 159-168,
International Atomic Energy
Agency (1971).
(ENGLISH). NAVAL RESEARCH
LABORATORY, WASHINGTON, D.C.
- 9695 Pillay, K. K. S., Thomas, C. C.,
Hyche, C. M.
**Neutron activation analysis of
inorganic constituents of
airborne particulates.**
- Nucl. Technol.*, 10, 224-231
(February 1971).
(ENGLISH). WESTERN NEW YORK
NUCLEAR RESEARCH CENTER, INC.,
BUFFALO, N.Y.
- 9696 Balsenc, L., Haerdi, W.
**Non-destructive determination of
traces of hafnium in various
chemical substances by gamma
spectroscopy of the isotope
 $^{180\text{m}}\text{Hf}$ ($T = 5.5$ h).**
Radiochem. Radioanal. Letters, 7,
No. 2, 109-113 (1971).
(FRENCH) (ENGLISH SUMMARY).
DEPARTMENT DE CHIMIE MINERALE ET
DE CHIMIE ANALYTIQUE DE
L'UNIVERSITE, ECOLE DE CHIMIE,
SCIENCES II - GENEVE,
SWITZERLAND.
- 9697 Henderson, P., Richardson, K. W.
**A sample holder for gamma-ray
activity measurements in
activation analysis.**
Radiochem. Radioanal. Letters, 7,
No. 2, 115-119 (1971).
(ENGLISH). DEPARTMENT OF
GEOLOGY, CHELSEA COLLEGE OF
SCIENCE AND TECHNOLOGY, LONDON,
ENGLAND.
- 9698 Stewart, R. F., Farrior, W. L.
**Feasibility of continuous ash
measurement of coal.**
ACS, Division of Fuel Chemistry,
148th National Meeting, Chicago,
Illinois, Vol. 8, No. 3, 192-197
(1964).
(ENGLISH). U.S. DEPARTMENT OF
THE INTERIOR, MORGANTOWN COAL
RESEARCH CENTER, BUREAU OF MINES,
MORGANTOWN, WEST VIRGINIA.
- 9699 Filippov, Y. M.
**Problem of nuclear geophysical
methods of determining the
composition of rocks and ores.**
Geol. Geofiz., Akad. Nauk SSSR,
Sib. Otd., 5-122 (1966).
(RUSSIAN). RUSSIA.
- 9700 Lobanov, E. M., Balbakov, D.,
Shalpykov, A., Chanyshv, A. I.,
Kozhogulov, O.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Neutron activation method for determining cobalt content in ionic single crystals.

Izv. Akad. Nauk Kirg. SSR, No. 5, 28–31 (1969).

(RUSSIAN). INSTITUT FIZIKI I MATEMATIKI, FRUNZE, USSR.

(ITALIAN). UNIVERSITY OF PAVIA, PAVIA, ITALY.

9701 Seyb, K. E.

Quantitative determination of silver and halogens in phototropic glass by activation analysis.

BMBW-FBK-70-19, 119–120 (October 1970).

(GERMAN). INSTITUT FÜR ANORGANISCHE CHEMIE UND KERNCHEMIE, MAINZ UNIVERSITÄT, WEST GERMANY.

(ENGLISH TRANSLATION). ACADEMIA, PRAGUE.

9702 Tenyakov, V. A., Rakovskii, E. E., Filippova, T. P.

Abundance and some general features of the geochemistry of gold in bauxites (based on neutron activation analysis data).

Dokl. Akad. Nauk SSSR, **195**, No. 2, 456–459 (1970).

(RUSSIAN). VSESOYUZHNI NAUCHNO-ISSLEDOVATELSKII, INSTITUT MINERALNOGO, SYRYA, USSR.

9705 Rakovic, M.

Activation analysis.

Activation Analysis, 339p., The Chemical Rubber Co., Cleveland, Ohio (1970).

9706 Nass, H. W.

A possible problem in determining oxygen in silicon by fast neutron activation analysis.

J. Inorg. Nucl. Chem., **33**, No. 3, 617–620 (1971).

(ENGLISH). NUCLEAR ANALYSIS GROUP, UNION CARBIDE CORPORATION, STERLING FOREST RESEARCH CENTER, TUXEDO, N.Y.

9707 Khera, A. K., Steinnes, E.

Determination of aluminium, manganese and sodium in soil solutions by neutron activation analysis.

Geoderma, **5**, 251–254 (1971).

(ENGLISH). DEPARTMENT OF SOIL SCIENCE, AGRICULTURAL COLLEGE OF NORWAY, VOLLEBEKK (NORWAY), INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER (NORWAY).

9703 Zaichik, V. E., Ryabukhin, Y. S., Melnik, A. D., Cherkashin, V. I.

Neutron activation analysis in the study of iodine behavior in the organism.

Med. Radiol., **15**, No. 1, 33–36 (January 1970).

(RUSSIAN). LABORATORIYA RADIOAKTIVNYKH MIKROELEMENTOV, INSTITUTA MEDITSINSKOI RADIOLOGII AMH SSSR, OBNINSK, USSR.

9708 Haas, W. E., Martin, J. A.

Discrepancies in the determination of carbon by deuterium activation analysis from carbon from the accelerator.

Radiochem. Radioanal. Letters, **7**, No. 2, 121–128 (1971).

(GERMAN) (ENGLISH SUMMARY). RADIOCHEMISCHES LABORATORIUM DER SIEMENS A.G., ERLANGEN, GERMANY.

9704 Rollier, M. A., Brandone, A., Genova, N.

Atmospheric pollution control. Neutron activation analysis of elements in solid atmospheric dust.

Chim. Ind. (Milan), **52**, No. 10, 988–994 (1970).

9709 De Goeij, J. J. M.

Nuclear techniques in the measurement and control of environmental pollution.

Atomenergie en haar Toepassingen, **13**, 71–77 (March 1971).

(DUTCH). INTERUNIVERSITY REACTOR INSTITUTE, DELFT, THE NETHERLANDS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9710 De Goeij, J. J. M., Houtman, J. P. W.
Mercury in the environment.
Chemisch Weekblad, **67**, 13–20
 (March 5, 1971).
 (DUTCH). INTERUNIVERSITY REACTOR
 INSTITUTE, DELFT, THE
 NETHERLANDS.
- 9711 Talvat, M.
**Interpretation of the parasitic
 reaction encountered in the
 determination of oxygen in
 silicon by activation with
 charged particles.**
 LYCEN 7122, 53p. (May 1971).
 (FRENCH). INSTITUT DE PHYSIQUE
 NUCLEAIRE, VILLEURBANNE, FRANCE.
- 9712 De Goeij, J. J. M., Zegers, C.
**Automated separations in routine
 activation analysis of mercury.**
 Paper presented at the 2nd
 Conference on the Recent
 Developments in Neutron
 Activation Analysis, 28 June–1
 July, 9p., Churchill College,
 Cambridge (1971).
 (ENGLISH). INTERUNIVERSITY
 REACTOR INSTITUTE, DELFT, THE
 NETHERLANDS.
- 9713 De Goeij, J. J. M.
**Utilization of activation analysis
 as a detection technique for
 mercury.**
 Paper presented at the Meeting of
 the Working Group Environmental
 Pollution of the European Society
 of Nuclear Methods, Mol, Belgium,
 18–19 March, 9p. (1971).
 (ENGLISH). INTERUNIVERSITY
 REACTOR INSTITUTE, DELFT, THE
 NETHERLANDS.
- 9714 Ehmann, W. D.
**New determinations of iridium and
 tantalum in meteoritic materials
 (an interim report).**
Meteoritics, **2**, 30–35 (1963).
 (ENGLISH). UNIVERSITY OF
 KENTUCKY, LEXINGTON, KENTUCKY.
- 9715 Schmolzer, G., Muller, K., Spitzky,
 H.
**Quantitative determination of
 thyroid hormone-iodine in blood
 serum by neutron activation
 analysis.**
*Intern. J. Appl. Radiation
 Isotopes*, **21**, No. 12, 697–701
 (1970).
 (GERMAN) (ENGLISH, FRENCH AND
 RUSSIAN SUMMARIES). INSTITUT FUR
 ALLGEMEINE CHEMIE, MIKRO- UND
 RADIOCHEMIE DER TECHNISCHEN
 HOCHSCHULE IN GRAZ, OSTERREICH.
- 9716 Hislop, J. S., Williams, J. R.
**A method for the chemical
 separation of ^{15}O from ^{13}N and
 ^{11}C in gaseous species produced
 by inert gas fusion.**
Radiochem. Radioanal. Letters, **7**,
 No. 3, 129–138 (1971).
 (ENGLISH). ANALYTICAL SCIENCE
 DIVISION, ATOMIC ENERGY RESEARCH
 ESTABLISHMENT, HARWELL, U.K.
- 9717 Gordon, C. M., Larson, R. E.
**Determination of strontium in sea
 water by photon activation
 analysis.**
Radiochem. Radioanal. Letters, **5**,
 No. 6, 369–373 (1970).
 (ENGLISH). OCEAN SCIENCES
 DIVISION, NAVAL RESEARCH
 LABORATORY, WASHINGTON, D.C.
- 9718 Guazzoni, P.
**Neutron activation determination
 of nitrogen in steels and
 niobium.**
 NP-18566, 66p. (1970).
 (FRENCH). UNIVERSITE DE
 GRENOBLE, FRANCE.
- 9719 Leu, M. L., Strickland, G. T.,
 Yeh, S. J.
**Tissue copper, zinc, and manganese
 levels in Wilson's disease.
 Studies with the use of neutron
 activation analysis.**
J. Lab. Clin. Med., **77**, No. 3,
 438–444 (1971).
 (ENGLISH). DEPARTMENT OF
 CLINICAL INVESTIGATION, NAVAL
 MEDICAL RESEARCH UNIT-2, TAIPEI,
 TAIWAN, CHINA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9720 Bunus, F. T.
Uranium-235 abundance determination based on activation analysis.
Radiochim. Acta, **15**, No. 3, 118-122 (1971).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE OF ATOMIC PHYSICS, BUCHAREST, RUMANIA.
 DEM CHEMIE-INSTITUT DER OSTERREICHISCHEN STUDIENGESELLSCHAFT FÜR ATOMENERGIE, REAKTORZENTRUM SEIBERSDORF.
- 9721 Hislop, J. S., Pratchett, A. G., Williams, D. R.
Determination of fluorine in rock materials by gamma activation and radiochemical separation.
Analyst (London), **96**, No. 1139, 117-122 (1971).
 (ENGLISH). ANALYTICAL SCIENCES DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, BERKS, ENGLAND.
- 9722 Veveris, O. E., Michulis, Y. D., Riekstinya, D. V.
Neutron activation determination of copper, zinc, and manganese in aluminum using 8-mercaptoquinoline.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 1, 16-18 (1971).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUTE OF PHYSICS, RIGA, USSR.
- 9723 Hermann, F., Kiesl, W., Kluger, F., Hecht, F.
Neutron activation analytical determination of a number of trace elements in meteoritic phases.
Mikrochim. Acta, No. 2, 225-240 (1971).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT DER UNIVERSITÄT WIEN.
- 9724 Gruber, E., Sorantin, H.
Activation analytical studies of standardized iron alloys. Quantitative determination of vanadium and qualitative evaluation of the certificate describing the alloys.
Mikrochim. Acta, No. 2, 262-266 (1971).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT DER UNIVERSITÄT WIEN UND
- 9725 Torok, G., Diehl, J. F.
Preparation and properties of antimony(V) aquo-oxide for separation of sodium in activation analysis.
Radiochim. Acta, **15**, No. 2, 96-100 (1971).
 (GERMAN). INSTITUT FÜR STRAHLENTechnologie DER BUNDESFORschUNGSANSTALT FÜR LEbensMITTELFRISCHHALTUNG, KARLSRUHE, BRD.
- 9726 Abdel-Rassoul, A. A., El-Shamy, H. K., Madbouly, R.
Analysis of platinum for certain elemental impurities by neutron activation.
Talanta, **18**, No. 1, 101-105 (1971).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). U.A.R. ATOMIC ENERGY ESTABLISHMENT AND CHEMICAL DEPARTMENT, MINISTRY OF INDUSTRY, CAIRO, UAR.
- 9727 Schmidt, D.
Tin in some standard rocks.
Earth Planetary Science Letters, **10**, 441-443 (March 1971).
 (ENGLISH). MAX-PLANCK-INSTITUT FÜR KERNPHYSIK, HEIDELBERG, GERMANY.
- 9728 Marowsky, G.
Determination of cadmium, mercury, thallium, and bismuth in terrestrial rocks by neutron activation analysis.
Z. Anal. Chem., **253**, No. 4, 267-271 (1971).
 (GERMAN) (ENGLISH SUMMARY). GEOCHEMISCHES INSTITUT DER UNIVERSITÄT GÖTTINGEN.
- 9729 Podosek, F. A.
Neutron activation potassium-argon dating of meteorites.
Geochim. Cosmochim. Acta, **35**, No. 2, 157-173 (1971).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). DEPARTMENT OF PHYSICS, UNIVERSITY OF CALIFORNIA, BERKELEY AND DIVISION OF GEOLOGICAL SCIENCES, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.

- 9730 Ehmman, W. D., Amiruddin, A., Rushbrook, P. R., Hurst, M. E.
Some trace element abundances in the Bruderheim meteorite.
J. Geophys. Research, **66**, No. 10, 3581 (October 1961).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

- 9731 Ehmman, W. D.
The abundance of nickel in some natural glasses.
Geochim. Cosmochim. Acta, **26**, 489–493 (1962).

(ENGLISH). THE UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY AND ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.

- 9732 Dara, S. S., Misra, V. N.
Applications of radioisotopes in metallurgy.
J. Sci. Ind. Res., **29**, No. 9, 403–413 (1970).

(ENGLISH). VISVESVARAYA REGIONAL COLLEGE OF ENGINEERING, NAGPUR.

- 9733 Ehmman, W. D., Gillum, D. E., Morgan, J. W., Nadkarni, R. A., Rebagay, T. V., Santoliquido, P. M., Showalter, D. L.
Chemical analyses of the Murchison and Lost City meteorites.
Meteoritics, **5**, No. 3, 131–136 (1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

- 9734 Goles, G. G., Randle, K., Osawa, M., Schmitt, R. A., Wakita, H., Ehmman, W. D., Morgan, J. W.
Elemental abundances by instrumental activation analyses in chips from 27 lunar rocks.
Proceedings Apollo 11 Lunar Science Conference, **2**, 1165–1176,

Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).

(ENGLISH). CENTER FOR VOLCANOLOGY, UNIVERSITY OF OREGON, EUGENE, OREGON, DEPARTMENT OF CHEMISTRY AND RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON, AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

- 9735 Van Compennolle, G., Krivanek, M., Masozera, C., Lumu, F. R.
Determination of major and trace elements in soils formed on matadi green rocks.
Peaceful Uses of Atomic Energy in Africa, 69–72, Vienna, International Atomic Energy Agency (1970).

(FRENCH) (ENGLISH SUMMARY). CENTRE NUCLEAIRE TRICO, KINSHASA, REPUBLIQUE DEMOCRATIQUE DU CONGO.

- 9736 Masozera, C., Van Compennolle, G., Pollak, H., Roels, J. F.
Determination of aluminum and silicon in the argillaceous fraction of Congolese soils.
Peaceful Uses of Atomic Energy in Africa, 73–82, Vienna, International Atomic Energy Agency (1970).

(FRENCH) (ENGLISH SUMMARY). CENTRE NUCLEAIRE TRICO ET UNIVERSITE LOVANIUM, KINSHASA, REPUBLIQUE DEMOCRATIQUE DU CONGO.

- 9737 Voldet, P.
Nondestructive determination of hafnium in zircons by neutron activation and gamma spectroscopy of hafnium-179m (half life 19 sec).
C.R. Seances Soc. Phys. Hist. Natur. Geneve, **5**, No. 1, 94–102 (1970).

(FRENCH). INSTITUT DE MINERALOGIE DE L'UNIVERSITE DE GENEVE.

- 9738 Higatsberger, M. J.
Spontaneous analysis in metallurgy by use of the prompt (n, gamma)

ACTIVATION ANALYSIS—BIBLIOGRAPHY

processes.

Radex Rundsch., No. 3, 182–190
(1970).

(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). OSTERREICHISCHE
STUDIENGESELLSCHAFT FÜR
ATOMENERGIE GES. M.B.H., WIEN.

- 9739 Chamberlain, M. J., Fremlin, J.
H., Holloway, I., Peters, D. K.
**Use of the cyclotron for whole
body neutron activation analysis.
Theoretical and practical
considerations.**

*Intern. J. Appl. Radiation
Isotopes*, **21**, No. 12, 725–734
(1970).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). UNIVERSITY OF
BIRMINGHAM, BIRMINGHAM, ENGLAND.

- 9740 Filby, R. H., Shah, K. R., Davis,
A. I.

**Determination of lead by fast
neutron inelastic scattering
induced ^{204m}Pb .**

Radiochem. Radioanal. Letters, **5**,
9–18 (16 October 1970).

(ENGLISH). NUCLEAR RADIATION
CENTER, WASHINGTON STATE
UNIVERSITY, PULLMAN, WASHINGTON.

- 9741 Dale, I. M., Henderson, P.,
Walton, A.

**Nondestructive neutron activation
analysis for some transition
elements in rocks.**

Radiochem. Radioanal. Letters, **5**,
No. 3, 91–101 (1970).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, THE UNIVERSITY,
GLASGOW, U.K.

- 9742 Kotas, P., Kukula, F.

**Activation analysis of trace
impurities in thin layers of SiO_2
and Si_3N_4 on silicon.**

Radiochem. Radioanal. Letters, **5**,
No. 3, 137–143 (1970).

(ENGLISH). TESLA – RESEARCH
INSTITUTE OF RADIOCOMMUNICATION
AND NUCLEAR RESEARCH INSTITUTE,
CZECHOSLOVAK ACADEMY OF SCIENCES,
REZ, PRAGUE, CZECHOSLOVAKIA.

- 9743 Oblozinsky, P., Ribansky, I.

**Geometric factors of irradiation
in fast neutron activation
analysis.**

Radiochem. Radioanal. Letters, **7**,
No. 3, 139–145 (1971).

(ENGLISH). INSTITUTE OF PHYSICS,
SLOVAK ACADEMY OF SCIENCES,
BRATISLAVA, CZECHOSLOVAKIA.

- 9744 Reed, D., Hilton, D. A.

**The identification and measurement
of impurities in neutron
irradiated graphites by high
resolution γ -ray spectrometry.**

Radiochem. Radioanal. Letters, **5**,
No. 6, 293–301 (1970).

(ENGLISH). CENTRAL ELECTRICITY
GENERATING BOARD, BERKELEY
NUCLEAR LABORATORIES, BERKELEY,
GLOUCESTERSHIRE, U.K.

- 9745 Engelmann, C., Gosset, J., Rigaud,
J. M.

**Charged particle and photon
activation determination of
boron, carbon, and oxygen in
silicon.**

Radiochem. Radioanal. Letters, **5**,
No. 6, 319–329 (1970).

(FRENCH) (ENGLISH SUMMARY).
COMMISSARIAT A L'ENERGIE
ATOMIQUE, CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, DEPARTEMENT
DE PHYSICO-CHIMIE, SERVICE DE
PHYSICO-CHIMIE APPLIQUEE, SACLAY,
FRANCE.

- 9746 Guckel, W., Born, H.J., Stark, H.

**Neutron activation quantitative
determination of impurities in
boron carbide.**

Radiochem. Radioanal. Letters, **5**,
No. 6, 357–364 (1970).

(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR RADIOCHEMIE DER
TECHNISCHEN UNIVERSITÄT, GARCHING
BEI MÜNCHEN, GERMANY.

- 9747 Landolt, R. R., Tyler, V. E.

**Thermal neutron activation
analysis of counterfeit and
genuine Japanese postage stamps.**

Radiochem. Radioanal. Letters, **5**,
No. 6, 365–368 (1970).

(ENGLISH). SCHOOL OF PHARMACY

ACTIVATION ANALYSIS—ACCESSION NUMBERS

AND PHARMACAL SCIENCES, PURDUE
UNIVERSITY, LAFAYETTE, INDIANA.

9748 Voldet, P.

Non-destructive analysis of hafnium in zircons by neutron activation and gamma spectrometry of ^{179m}Hf .

Activation Analysis in Geochemistry and Cosmochemistry, 411–416, Brunfelt, A. O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUTE DE MINERALOGIE, GENEVA, SWITZERLAND.

9749 Conaway, H. H., Leddicotte, G. W.,
Kenny, A. D.

Neutron activation analysis of rat bone. Simultaneous determination of calcium, chlorine, magnesium, and sodium.

Anal. Biochem., **39**, No. 1, 218–227 (1971).

(ENGLISH). DEPARTMENT OF PHARMACOLOGY, DEPARTMENT OF NUCLEAR ENGINEERING, SPACE SCIENCES RESEARCH CENTER, AND RESEARCH REACTOR FACILITY, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.

9750 Taczanowski, S., Janczyszyn, J.

The determination of oxygen in metallic copper by 14 MeV neutron activation analysis.

Radiochem. Radioanal. Letters, **6**, No. 2, 101–107 (1971).

(ENGLISH). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, CRACOW, POLAND.

9751 Bibby, D. M., Oldham, G.

The determination of total neutron output from titanium tritide targets.

Radiochem. Radioanal. Letters, **6**, 109–113 (2 March 1971).

(ENGLISH). LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, U.K.

9752 Oak Ridge National Laboratory

Nuclear and radiochemistry.

ORNL-4636, 20–22 (January 1971).

(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.

9753 Morgan, J. W., Ehmann, W. D.

14 MeV neutron activation analysis of rocks and meteorites.

Activation Analysis in Geochemistry and Cosmochemistry, 81–97, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

9754 Nadkarni, R. A., Ehmann, W. D.

Trace element determination in biological materials by neutron activation analysis.

Trace Substances in Environmental Health – IV, 407–419, Proceedings of the 4th Annual Conference on Trace Substances in Environmental Health, June 23–25, University of Missouri, Columbia, Missouri (1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.

9755 Matsuda, H., Umemoto, S., Honda, M.

Mn-53 produced by 730 MeV proton bombardment of iron.

Radiochim. Acta, **15**, 51–53 (January 1971).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). THE INSTITUTE FOR SOLID STATE PHYSICS, UNIVERSITY OF TOKYO, MINATOKU, TOKYO, JAPAN.

9756 Amsel, G., Nadai, J. P., D

Artemare, E., David, D., Girard, E., Moulin, J.

Microanalysis by the direct observation of nuclear reactions using a 2 MeV Van de Graaff.

Nucl. Instruments Methods, **92**, No. 4, 481–498 (1971).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(ENGLISH). GROUPE DE PHYSIQUE
DES SOLIDES D L'ECOLE NORMALE
SUPERIEURE, PARIS, FRANCE.

LONDON, ENGLAND AND RADIOLOGICAL
PROTECTION SERVICE, BELMONT,
SUTTON, SURREY, ENGLAND.

- 9757 Macey, D. J., Gilboy, W. B.
**Determination of oxygen and
nitrogen in gases by prompt
gamma-ray measurement.**
Nucl. Instruments Methods, **92**, No.
4, 501–504 (1971).

(ENGLISH). UNIVERSITY OF SURREY,
GUILDFORD, SURREY, U.K.

- 9762 Sakanoue, M., Yoshioka, M.,
Nakanishi, T., Takagi, T.
**Studies on the distribution of
chemical elements in geochemical
samples by an activation
autoradiographic method.**
*Intern. J. Applied Radiation
Isotopes*, **22**, No. 3, 177–183
(1971).

(ENGLISH) (FRENCH, RUSSIAN AND
GERMAN SUMMARIES). RADIOCHEMICAL
LABORATORY, DEPARTMENT OF
CHEMISTRY, FACULTY OF SCIENCE,
KANAZAWA UNIVERSITY, KANAZAWA,
JAPAN.

- 9758 Wood, D. E.
**Industrial applications of
activation analysis with 14 MeV
neutrons.**
Nucl. Instruments Methods, **92**, No.
4, 511–515 (1971).

(ENGLISH). KAMAN SCIENCES
CORPORATION, COLORADO SPRINGS,
COLORADO.

- 9763 Amsel, G., Cherki, C., Croset, M.,
Feuillade, G., Nadai, J. P.,
Ortega, C., Rigo, S., Siejka, J.
**The use of the nuclear
microanalysis of light elements
in electrochemistry applications
to anodic oxidation processes by
direct determination of ^{16}O and
by ^{18}O tracing.**
Collection Czech. Chem. Commun.,
36, No. 2, 883–889 (1971).

(ENGLISH). GROUPE DE PHYSIQUE
DES SOLIDES DE L'ECOLE NORMALE
SUPERIEURE, PARIS, FRANCE,
C.S.F.-COSEM, ORSAY, FRANCE AND
CENTRE DE RECHERCHE C.G.E.,
MARCOUSSIS, FRANCE.

- 9759 Reimers, P., Santner, E.
**Some technical problems in
activation analysis using a 14
MeV neutron generator.**
Nucl. Instruments Methods, **92**, No.
4, 577–579 (1971).

(ENGLISH). BUNDESANSTALT FUR
MATERIALPRUFUNG, KERNTHECHNIK IN
DER MATERIALPRUFUNG UND
STRAHLENSCHUTZ, BERLIN, WEST
GERMANY.

- 9760 Marshall, T. O., Knight, A.
**Studies relating to in vivo
activation analysis using a
source of 14 MeV neutrons.**
Nucl. Instruments Methods, **92**, No.
4, 595–599 (1971).

(ENGLISH). RADIOLOGICAL
PROTECTION SERVICE, BELMONT,
SUTTON, SURREY, ENGLAND.

- 9764 Schiller, P., Cook, G. B.
**Determination of trace amounts of
gold in natural sweet waters by
nondestructive activation
analysis after preconcentration.**
Anal. Chim. Acta, **54**, No. 2,
364–368 (1971).

(ENGLISH). IAEA LABORATORY,
SEIBERSDORF, AUSTRIA.

- 9761 Battye, C. K., Knight, V.,
Marshall, T. O., Knight, A.,
Godfrey, B. E.
**Use of 14 MeV neutrons for
activation analysis of five
elements in man-like models.**
Nucl. Instruments Methods, **92**, No.
4, 601–607 (1971).

(ENGLISH). DEPARTMENT OF MEDICAL
PHYSICS, KING'S COLLEGE HOSPITAL,

- 9765 Gluskoter, H. J., Ruch, R. R.
**Chlorine and sodium in Illinois
coals as determined by neutron
activation analyses.**
Fuel, **50**, No. 1, 65–76 (1971).

(ENGLISH). ILLINOIS STATE

ACTIVATION ANALYSIS—ACCESSION NUMBERS

GEOLOGICAL SURVEY, URBANA,
ILLINOIS.

INSTITUT DES REAKTORZENTRUMS
SEIBERSDORF DER OSTERREICHISCHEN
STUDIENGESELLSCHAFT FÜR
ATOMENERGIE.

9766 Rowe, J. J., Simon, F. O.

Determination of platinum and palladium in geological materials by neutron activation analysis after fire-assay preconcentration.

Talanta, **18**, No. 1, 121-125 (1971).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.

9771 Becker, R., Sorantin, H.

Neutron activation analysis of a standardized aluminum-silicon alloy. II. Determination of chromium, zinc, iron, cobalt, scandium, hafnium, and nickel.

Z. Anal. Chem., **254**, No. 4, 281-286 (1971).

(GERMAN) (ENGLISH SUMMARY).

ANALYTISCHES INSTITUT DER UNIVERSITÄT WIEN UND CHEMIE INSTITUT DES REAKTORZENTRUMS SEIBERSDORF DER OSTERREICHISCHEN STUDIENGESELLSCHAFT FÜR ATOMENERGIE.

9767 Mo, T., O'Brien, B. C., Suttle, A. D.

Uranium: Further investigation of uranium content of Caribbean cores P6304-8 and P6304-9.

Earth Planetary Science Letters, **10**, 175-178 (January 1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.

9772 Wiggins, P. F., Duffey, D., Elkady, A.

Marine manganese nodules studied using nuclear reactor.

Nav. Eng. J., **83**, 31-34 (February 1971).

(ENGLISH). NAVAL ACADEMY, ANNAPOLIS, MARYLAND.

9768 Giroux, J., Talvat, M., Thomas, J. P., Tousset, J.

Determination of oxygen in silicon by means of alpha-particles.

Bull. Soc. Chim. Fr., No. 2, 706-712 (1971).

(FRENCH). UNIVERSITE DE LYON, VILLEURBANNE, FRANCE.

9773 Thoma, C., Hohler, P., Kopineck, H. J., Sommerkorn, G., Demmeler, M., Nickel, H., Rottmann, J.

Quantitative test of rolled products for unweldable internal defects and oxygen content by means of neutron activation analysis.

Arch. Eisenhüttenwesen, **42**, No. 3, 185-193 (1971).

(GERMAN) (ENGLISH SUMMARY).

OBERHAUSEN, DORTMUND UND JULICH, GERMANY.

9769 Chrenko, R. M.

Boron content and profiles in large laboratory diamonds.

Nature (London) Phys. Sci., **229**, 165-167 (8 February 1971).

(ENGLISH). GENERAL ELECTRIC RESEARCH AND DEVELOPMENT CENTER, SCHENECTADY, NEW YORK.

9774 Morgan, J. W.

Neutron activation analysis.

Atomic Energy, 15-18 (April 1962).

(ENGLISH). DEPARTMENT OF GEOPHYSICS, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA.

9770 Becker, R., Sorantin, H.

Neutron activation analysis of a standardized aluminum-silicon alloy. I. Determination of manganese, copper, and gallium.

Z. Anal. Chem., **253**, No. 5, 347-350 (1971).

(GERMAN) (ENGLISH SUMMARY). ANALYTISCHES INSTITUT DER UNIVERSITÄT WIEN UND CHEMIE

9775 Morgan, J. W., Lovering, J. F.

Uranium and thorium abundances in carbonaceous chondrites.

Nature, **213**, No. 5079, 873-875

ACTIVATION ANALYSIS—BIBLIOGRAPHY

(March 4, 1967).

(ENGLISH). DEPARTMENT OF
GEOPHYSICS AND GEOCHEMISTRY,
AUSTRALIAN NATIONAL UNIVERSITY,
CANBERRA.

9776 Liebscher, K., Smith, H.

**Essential and nonessential trace
elements. A method of
determining whether an element is
essential or nonessential in
human tissues.**

Arch. Environ. Health, **17**, 882–891
(1968).

(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, GLASGOW
UNIVERSITY, GLASGOW, SCOTLAND.

9777 Molokhia, M. M., Smith, H.

Antimony uptake by schistosomes.

*Ann. Tropical Med. and
Parasitology*, **62**, 158–163 (1968).

(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, UNIVERSITY OF
GLASGOW, GLASGOW, SCOTLAND.

9778 Rowe, J. J., Simon, F. O.

**The determination of gold in
geologic materials by neutron
activation analysis using fire
assay for the radiochemical
separations.**

U.S. Geol. Surv. Circ., No. 599,
4p. (1968).

(ENGLISH). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.

9779 Molokhia, M. M., Smith, H.

**Tissue distribution of trivalent
antimony in mice infected with
Schistosoma mansoni.**

*Bull. Org. Mond. Sante, Bull. Wld.
Hlth. Org.*, **40**, 123–128 (1969).

(ENGLISH). DEPARTMENT OF
FORENSIC MEDICINE, UNIVERSITY OF
GLASGOW, GLASGOW, SCOTLAND.

9780 Riviere, R., Comar, D.,

Kellershohn, C., Orr, J. S.,
Gillespie, F. C., Lenihan, J. M.
A.

**Estimation of thyroid iodine
content by the occupancy
principle.**

Lancet, **1**, 389–394 (1969).

(ENGLISH). SERVICE HOSPITALIER
FREDERIC JOLIOT, ORSAY, FRANCE
AND WESTERN REGIONAL HOSPITAL
BOARD, DEPARTMENT OF CLINICAL
PHYSICS AND BIO-ENGINEERING,
GLASGOW.

9781 Maksimovskii, Y. M., Glazunov, M.
P.

**A study of the distribution of
zinc in the hard dental tissues
by the neutron activation
technique.**

Stomatologiya, No. 3, 14–17
(1969).

(RUSSIAN) (ENGLISH SUMMARY).
RUSSIA.

9782 Gorbunov, V. F., Kadisov, E. M.,
Kedrov, A. I., Popov, N. V.,
Shimelevich, Y. S.

**Neutron gamma radiation
spectrometry together with time
analysis, and prospects for its
use in nuclear geophysics.**

*Tr., Vses. Nauch.-Issled. Inst.
Yad. Geofiz. Geokhim.*, No. 5,
122–135 (1969).

(RUSSIAN). RUSSIA.

9783 Draskovic, R.

**Possibilities of the application
of activation analysis in
medicine.**

Isotopenpraxis, **6**, 300–303
(September 1970).

(FRENCH). INSTITUT DES SCIENCES
NUCLEAIRES, BORIS KIDRIC, VINCA.

9748 Daiev, K., Apostolov, D., Iovchev,
M., Velchev, L.

**Activation analysis as a fast
method for nondestructive
determination of lanthanum in
phosphates.**

Isotopenpraxis, **6**, No. 12, 460–462
(1970).

(GERMAN). CHEMISCHE FAKULTAT DER
UNIVERSITAT KL. OCHRIDSKY UND
PHYSIKALISCHES INSTITUT DER
BULGARISCHEN AKADEMIE DER
WISSENSCHAFTEN, SOFIA.

9785 Kobayashi, M.

End group analysis by neutron

ACTIVATION ANALYSIS—ACCESSION NUMBERS

activation. Determination of molecular weight of α -lin-poly-p-xylylene.

J. Polym. Sci., Part B, **8**, No. 11, 823-828 (1970).

(ENGLISH). RESEARCH REACTOR INSTITUTE, KYOTO UNIVERSITY, KUMATORI-CHO, SENNAN-GUN, OSAKA, JAPAN.

9786 Priest, H. F., Burns, F. C., Priest, G. L.

Use of activation analysis for determining weight of pellet in M34 primers.

AD-713571, 13p. (1970).

(ENGLISH). ARMY MATERIALS AND MECHANICS RESEARCH CENTER, WATERTOWN, MASSACHUSETTS.

9787 Mark, H. B.

Application of an electrochemical preconcentration technique to neutron activation analysis of trace metal ions.

J. Pharm. Belg., **25**, No. 5, 367-399 (1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO.

9788 Malenchanka, A. F., Kazyuk, G. V., Luchkin, B. R.

Possible use of a neutron activation method to study iodine metabolism in an organism.

Vestsi Akad. Navuk Belarus. SSR, Ser. Biyal. Navuk, No. 4, 94-97 (1970).

(BELORUSSIAN). INSTITUT YADERNOI ENERGETIKI AN BSSR, MINSK.

9789 Tsuchida, E., Tomono, T., Nishide, H.

Studies on end groups of styrene-maleic anhydride copolymers by tracer method and activation analysis.

Kogyo Kagaku Zasshi, **73**, No. 9, 2037-2040 (1970).

(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF POLYMER CHEMISTRY, WASEDA UNIVERSITY, NISHIOHKUBO, SHINJUKU-KU, TOKYO, JAPAN.

9790 Horiguchi, Y., Nagatsuka, S.

Use of rare earths for the measurement of movement in polluted tidal rivers.

Genshiryoku Kogyo, **16**, No. 10, 68-72 (1970).

(JAPANESE). JAPAN.

9791 Krueger, W. B., Carey, W. E., Kolodziej, B. J.

Neutron activation analysis of manganese and sodium in bacterial cells.

Appl. Microbiol., **20**, No. 6, 946-950 (1970).

(ENGLISH). ACADEMIC FACULTY OF MICROBIAL AND CELLULAR BIOLOGY, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO.

9792 Schlesinger, H. L., Lukens, H. R.,

Guinn, V. P., Hackleman, R. P., Korts, R. F.

Special report on gunshot residues measured by neutron activation analysis.

GA-9829, 136p. (August 10, 1970).

(ENGLISH). GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIFORNIA.

9793 Lukens, H. R., Schlesinger, H. L.,

Settle, D. M., Guinn, V. P.

Forensic neutron activation analysis of paper.

GA-10113, 34p. (May 22, 1970).

(ENGLISH). GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIFORNIA.

9794 Espanol, C. E., Marafuschi, A. M.

Determination of oxygen in zircaloy by fast neutron activation.

Cienc. Invest., **26**, No. 10, 451-459 (1970).

(SPANISH). LABORATORIO DE RADIOISOTOPS, DEPARTAMENTO DE FISICA, FACULTAD DE INGENIERIA, UNIVERSIDAD DE BUENOS AIRES.

9795 Lisovskii, I. P., Smakhtin, L. A.

Precision system for the determination of oxygen by fast neutron activation.

Soviet Atomic Energy, **29**, No. 6, 1223 (1970).

(ENGLISH TRANSLATION). RUSSIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9796 Lisovskii, I. P., Smakhtin, L. A.,
Filippova, N. V., Volgin, V. I.
**VVR reactor semiautomatic
activation analysis system.**
Soviet Atomic Energy, **29**, No. 6,
1223 (1970).
(ENGLISH TRANSLATION). RUSSIA.
- 9797 Lobanov, E. M., Allabergenov, B.
R., Akbarov, U., Nishanov, P. K.
**Non-destructive neutron activation
determination of cobalt.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, **14**, No. 5, 87-88
(1970).
(RUSSIAN). INSTITUT YADERNOI
FIZIKI, AN UZSSR.
- 9798 Abdullaev, A. A., Kim, A. P.
**Selection of optimum activation
and waiting times during neutron
activation analysis of rare earth
elements.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, **14**, No. 4, 89-92
(1970).
(RUSSIAN). INSTITUT YADERNOI
FIZIKI, AN UZSSR.
- 9799 Averyanova, V. P., Ginzburg, M.
I., Marunina, N. I., Sukhov, G.
V.
**Activation analysis determination
of the transfer of impurities
from the graphite container into
germanium.**
Tsvet. Metal., **43**, No. 8, 54-55
(1970).
(RUSSIAN). RUSSIA.
- 9800 Okano, M.
**Use of gamma-rays from radioactive
isotopes.**
Genshiryoku Kogyo, **16**, No. 10,
40-45 (1970).
(JAPANESE). JAPAN.
- 9801 Kawamoto, J., Yamamoto, M.
**Observation of boron distribution
by autoradiography.**
Radioisotopes, **19**, No. 2, 87-88
(1970).
(JAPANESE). TOYOTA CENTRAL
RESEARCH LABORATORY, JAPAN.
- 9802 Siau, J. F., Meyer, J. A.
**Neutron activation analysis of
mixtures of copper, chromium and
arsenic.**
Proc. Amer. Wood-Preserv. Assn.,
66, 119-127 (1970).
(ENGLISH). WOOD PRODUCTS
ENGINEERING AND CHEMISTRY
DEPARTMENTS, STATE UNIVERSITY
COLLEGE OF FORESTRY AT SYRACUSE
UNIVERSITY, SYRACUSE, N.Y.
- 9803 Lucas, H. F., Markun, F.
**Thorium and uranium in blood,
urine and cigarettes.**
ANL-7760 (Part 2), 47-52 (1970).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 9804 Jugelt, P., Knorr, J.
**Possibilities of using the
nondestructive activation
analysis with 14 MeV neutrons in
the investigation of glass.**
Silikattechnik, **21**, No. 5, 153-155
(1970).
(GERMAN). ARBEITSSTELLE
ISOTOPENTECHNIK, TECHNISCHE
UNIVERSITÄT DRESDEN, DRESDEN,
GERMANY.
- 9805 Ehret, R., Domberg, H., Lohner, H.
**Pneumatic system for activation
analysis with short-lived
radionuclides.**
KFK-1293, 13p. (October 1970).
(GERMAN). LABORATORIUM FÜR
ISOTOPENTECHNIK, KERNFORSCHUNGS-
ZENTRUM, KARLSRUHE, GERMANY.
- 9806 Dingle, A. N.
**Scavenging of tracer in severe
storms.**
CONF-700601. Proceedings of a
Symposium held at Richland,
Washington, June 2-4, 1970, 21-35
(December 1970).
(ENGLISH). DEPARTMENT OF
METEOROLOGY AND OCEANOGRAPHY,
UNIVERSITY OF MICHIGAN, ANN
ARBOR, MICHIGAN.
- 9807 Rancitelli, L. A., Perkins, R. W.,
Tanner, T. M., Thomas, C. W.
**Stable elements of the atmosphere
as tracers of precipitation**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- scavenging.
 CONF-700601. Proceedings of a Symposium held at Richland, Washington, June 2-4, 1970, 69-108 (December 1970).
 (ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORY, RICHLAND, WASHINGTON.
- 9808 Wolfe, R., Herpers, U.
The interference-free, activation analytical determination of special trace elements with highly selective two-fold and three-fold γ -coincidence layouts with consideration of important interference factors.
Mikrochim. Acta, No. 5, 933-940 (1970).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FUR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE JULICH GMBH UND INSTITUT FUR KERNCHEMIE DER UNIVERSITAT KOLN.
- 9809 Ruf, H., Baeckmann, A. V., Gantner, E.
Neutron activation analytical determination of neodymium-148 in cleaved earths.
Mikrochim. Acta, No. 5, 1029-1038 (1970).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FUR RADIOCHEMIE, KERNFORSCHUNGSZENTRUM KARLSRUHE.
- 9810 Filby, R. H., Davis, A. I., Shah, K. R., Haller, W. A.
Determination of mercury in biological and environmental materials by instrumental neutron activation analysis.
Mikrochim. Acta, No. 6, 1130-1136 (1970).
 (ENGLISH) (GERMAN SUMMARY). NUCLEAR RADIATION CENTER, WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON.
- 9811 Wanke, H., Wlotzka, F., Jagoutz, E., Bergemann, F.
Comparison and structure of metallic iron particles in lunar "fines".
Proceedings Apollo 11 Lunar Science Conference, 1, 931-935, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). MAX-PLANCK-INSTITUT FUR CHEMIE, OTTO-HAHN-INSTITUT, MAINZ, GERMANY.
- 9812 Zubkoff, P. L., Carey, W. E.
Neutron activation analysis of sediments in Western Lake Erie.
Proceedings 13th Conference Great Lakes Research, 319-325, International Association Great Lakes Research (1970).
 (ENGLISH). COLLEGE OF BIOLOGICAL SCIENCES, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO.
- 9813 Lukens, H. R., Schlesinger, H. L., Guinn, V. P., Hackleman, R. P.
Forensic neutron activation analysis of bullet-lead specimens.
 GA-10141, 48p. (June 30, 1970).
 (ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.
- 9814 Spencer, D. W., Brewer, P. G., Sachs, P. L., Smith, C. L.
The distribution of some chemical elements between dissolved and particulate phases in the ocean.
 NYO-4150-9, 13p. (1970).
 (ENGLISH). WOODS HOLE OCEANOGRAPHIC INSTITUTION, WOODS HOLE, MASSACHUSETTS.
- 9815 Tominaga, H.
On-line data processing activation analysis.
Nippon Genshiryoku Gakkaishi, 13, No. 1, 23-28 (1971).
 (JAPANESE) (ENGLISH SUMMARY). RADIOISOTOPE CENTER, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE.
- 9816 Takano, K.
Use of radioisotopes in the aluminum industry.
Genshiryoku Kogyo, 17, No. 1, 68-72 (1971).
 (JAPANESE). JAPAN LIGHT METAL RESEARCH INSTITUTE CO. LTD., TOKYO, JAPAN.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9817 Brodzinski, R. L.
The measurement of radiation exposure of astronauts by radiochemical techniques. Quarterly Research Report to the NASA Manned Spacecraft Center, October 5, 1970–January 3, 1971.
 BNWL-1183-7, 39p. (15 January 1971).
 (ENGLISH). BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABORATORIES, RICHLAND, WASHINGTON.
- 9818 Perkins, R. W., Haller, W. A., Rieck, H. G., Rancitelli, L. A., Wogman, N. A.
Cf-252 neutron activation for terrestrial, sea floor, and possible planetary surface analysis.
 BNWL-SA-3803, 15p. (1971).
 (ENGLISH). BATTELLE NORTHWEST, RICHLAND, WASHINGTON.
- 9819 Sullzberger, R.
Determination of oxygen in pure aluminum and aluminum alloys.
Erzmetall, **24**, No. 3, 123–125 (1971).
 (GERMAN). ZENTRALEN ANALYTISCHEN FORSCHUNG DES FORSCHUNGSINSTITUTE S DER ALUSUISSE, NEUHAUSEN/RHEINFALL, SCHWEIZ.
- 9820 Gillette, R. K.
Representative analytical methods for selected metal ions.
 MLM-1801, 50p. (12 March 1971).
 (ENGLISH). MOUND LABORATORY, MIAMISBURG, OHIO.
- 9821 Bochenin, V. I., Shirokii, V. K.
Activation analysis of silicon dioxide in an iron ore concentrate (exchange of experience).
Industrial Laboratory, **37**, No. 1, 57–58 (1971).
 (ENGLISH TRANSLATION). KARAGANDINSKII POLYTECHNICAL INSTITUTE.
- 9822 Cohn, S. H., Dombrowski, C. S.
Whole body counter for neutron activation analysis.
IEEE Trans. Nucl. Sci., **18**, No. 1, Pt. 1, 73–78 (1971).
 (ENGLISH). MEDICAL RESEARCH CENTER, BROOKHAVEN NATIONAL LABORATORY, UPTON, N.Y.
- 9823 Furr, A. K., Mooney, E.
Neutron activation studies of the Roanoke River system.
IEEE Trans. Nucl. Sci., **18**, No. 1, Pt. 1, 79–85 (1971).
 (ENGLISH). VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, DEPARTMENT OF PHYSICS, BLACKSBURG, VIRGINIA.
- 9824 Gangadharan, S.
Nuclear methods in trace analysis: A review.
 BARC-529, 57p. (1971).
 (ENGLISH). ANALYTICAL DIVISION, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA.
- 9825 Schweikert, E. A.
Research in charged particle activation analysis. Progress Report February 1, 1970–January 31, 1971.
 ORO-3922-2, 66p. (29 January 1971).
 (ENGLISH). TEXAS A & M RESEARCH FOUNDATION, COLLEGE STATION, TEXAS.
- 9826 Tsai, H. T.
Photonuclear yields in barium and cesium with 18–75 MeV bremsstrahlung and the determination of cesium by the internal reference method.
Nippon Kagaku Zasshi, **92**, No. 1, 60–64 (1971).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, KATAHIRA-CHO, SENDAI-SHI, JAPAN.
- 9827 Tsai, H. T.
Photon activation analysis for rubidium with an internal reference of cesium.
Nippon Kagaku Zasshi, **92**, No. 1, 93–95 (1971).
 (JAPANESE) (ENGLISH SUMMARY).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

DEPARTMENT OF CHEMISTRY, FACULTY
OF SCIENCE, TOHOKU UNIVERSITY,
KATAHIRA-CHO, SENDAI-SHI, JAPAN.

- 9828 De Vries, J. L.
**Neutron activation analysis.
Atomic nuclei as aids in chemical
analysis.**
Chem. Weekbl., **67**, No. 16, 25A–26A
(1971).
(DUTCH). NETHERLANDS.
- 9829 Lovering, J. F., Morgan, J. W.
**Rhenium and osmium abundances in
tektites.**
Geochim. Cosmochim. Acta, **28**,
761–768 (1964).
(ENGLISH). DEPARTMENT OF
GEOPHYSICS, AUSTRALIAN NATIONAL
UNIVERSITY, CANBERRA, A.C.T.,
AUSTRALIA.
- 9830 Morgan, J. W., Heier, K. S.
**Uranium, thorium and potassium in
six U.S.G.S. standard rocks.**
Earth Planetary Science Letters,
1, 158–160 (1966).
(ENGLISH). DEPARTMENT OF
GEOPHYSICS AND GEOCHEMISTRY,
INSTITUTE OF ADVANCED STUDIES,
AUSTRALIAN NATIONAL UNIVERSITY,
CANBERRA, A.C.T., AUSTRALIA.
- 9831 Morgan, J. W., Goode, A. D. T.
**Potassium abundances in some
ultra-basic and basic rocks.**
Earth Planetary Science Letters,
3, 110–112 (1966).
(ENGLISH). DEPARTMENT OF
GEOPHYSICS AND GEOCHEMISTRY,
INSTITUTE OF ADVANCED STUDIES,
AUSTRALIAN NATIONAL UNIVERSITY,
CANBERRA, A.C.T., AUSTRALIA.
- 9832 Nakamura, H., Yamabayashi, H.
**Impurities in copper-64 produced
by (n, γ) reaction.**
Nippon Genshiryoku Gakkaishi, **10**,
No. 10, 550–553 (1968).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE.
- 9833 Wasson, J. T., Baedecker, P. A.
**Ga, Ge, In, Ir and Au in lunar,
terrestrial and meteoritic
basalts.**
*Proceedings Apollo 11 Lunar
Science Conference*, **2**, 1741–1750,
Levinson, A.A. (Ed.), Pergamon,
New York, N.Y. (1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY AND INSTITUTE OF
GEOPHYSICS AND PLANETARY PHYSICS,
UNIVERSITY OF CALIFORNIA, LOS
ANGELES, CALIFORNIA.
- 9834 Morvai, L.
**Selective gamma-gamma methods in
ore prospecting drilling.**
Magy. Geofiz., **9**, 105–112 (1968).
(HUNGARIAN) (RUSSIAN AND GERMAN
SUMMARIES). HUNGARY.
- 9835 Schulte, K. E., Henke, G., Tjan,
K. S.
**Determination of 28 trace elements
by activation analysis after
separation by solvent extraction
and precipitation.**
Z. Anal. Chem., **252**, 358–366
(1970).
(GERMAN) (ENGLISH SUMMARY).
INSTITUT FÜR PHARMAZEUTISCHE
CHEMIE DER UNIVERSITÄT MÜNSTER.
- 9836 Kukula, F.
**Use of diethyl dithiocarbamates
for activation analysis with
substoichiometric silver
separation.**
Isotopenpraxis, **6**, 303–306
(September 1970).
(RUSSIAN). INSTITUTE OF NUCLEAR
RESEARCH, REZ, CZECHOSLOVAKIA.
- 9837 Abel, E., Mayer, J.
**Determination of radioactive and
stable cesium.**
Chem. Listy, **65**, 242–267 (March
1971).
(CZECHOSLOVAKIAN) (ENGLISH
SUMMARY). VYSKUMNY USTAV
HYGIENY, BRATISLAVA.
- 9838 Lavrukhina, A. K., Akolzina, L.
D., Kolesov, G. M.
**A study of Ga and Pt distribution
in meteoritic matter by the**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

neutron activation method.

Geokhimiya, No. 2, 155–159 (1971).

(RUSSIAN) (ENGLISH SUMMARY).

V.I. VERNADSKY INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, USSR ACADEMY OF
SCIENCES, MOSCOW.

9839 Bilimovich, G. N., Alimarin, I.
P., Tikhonova, T. V.

Radiochemical determination of small amounts of tantalum after substoichiometric separation.

J. Anal. Chem., USSR, 26, No. 1,
Part 2, 104–107 (1971).

(ENGLISH TRANSLATION). V.I.

VERNADSKII INSTITUTE OF
GEOCHEMISTRY AND ANALYTICAL
CHEMISTRY, ACADEMY OF SCIENCES OF
THE USSR, MOSCOW.

9840 Morgan, J. W., Lovering, J. F.

Uranium and thorium in some basic and ultrabasic rocks of possible deep-seated origin.

Activation Analysis in

Geochemistry and Cosmochemistry,
445–454, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY AND
DEPARTMENT OF GEOLOGY, UNIVERSITY
OF MELBOURNE, PARKVILLE,
VICTORIA, AUSTRALIA.

9841 Adamek, A., Obrusnik, I.

Rapid determination of thallium traces by activation analysis applying substoichiometric displacement.

Radiochem. Radioanal. Letters, 7,
No. 3, 147–154 (1971).

(ENGLISH). INSTITUTE OF PHYSICS,
SLOVAK ACADEMY OF SCIENCES,
BRATISLAVA AND INSTITUTE OF
NUCLEAR RESEARCH, CZECHOSLOVAK
ACADEMY OF SCIENCES, REZ, PRAGUE,
CZECHOSLOVAKIA.

9842 Smales, A. A.

The place of activation analysis in geochemistry and cosmochemistry.

*Activation Analysis in
Geochemistry and Cosmochemistry*,
17–24, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). ANALYTICAL SCIENCES
DIVISION, A.E.R.E., HARWELL,
ENGLAND.

9843 Turkevich, A.

In-situ chemical analysis of extra-terrestrial objects such as the Moon and Mars by the use of alpha particles.

*Activation Analysis in
Geochemistry and Cosmochemistry*,
25–41, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). ENRICO FERMI
INSTITUTE AND CHEMISTRY
DEPARTMENT, UNIVERSITY OF
CHICAGO, CHICAGO, ILLINOIS.

9844 Goles, G. G.

Instrumental activation analysis of Columbia River basalts and of lunar rocks.

*Activation Analysis in
Geochemistry and Cosmochemistry*,
45–50, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). CENTER FOR
VOLCANOLOGY AND DEPARTMENTS OF
CHEMISTRY AND GEOLOGY, UNIVERSITY
OF OREGON, EUGENE, OREGON.

9845 Morrison, G. H.

Multielement neutron activation analysis of geological and lunar

ACTIVATION ANALYSIS—ACCESSION NUMBERS

material using chemical group separations and high resolution gamma spectrometry.

Activation Analysis in Geochemistry and Cosmochemistry, 51–54, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY, CORNELL UNIVERSITY, ITHACA, N.Y.

9846 Whitley, J. E., Bowden, P., Angus, N. S.

The determination of trace elements in igneous rocks by nuclear techniques.

Activation Analysis in Geochemistry and Cosmochemistry, 55–64, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, GLASGOW, DEPARTMENT OF GEOLOGY, THE UNIVERSITY OF ST. ANDREWS, AND DEPARTMENT OF GEOLOGY, THE UNIVERSITY OF HULL, U.K.

9847 Das, H. A., Zonderhuis, J.

Routine determinations on rocks and sediments by activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 65–71, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.

9848 Cojocar, V., Ispas, M.

Instrumental neutron activation

analysis of some new standard rocks.

Activation Analysis in Geochemistry and Cosmochemistry, 73–77, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUTE FOR ATOMIC PHYSICS, BUCHAREST, ROMANIA.

9849 Van Zelst, L.

Non-destructive activation analysis of some elements in stony meteorites by proton- and bremsstrahlen-irradiation.

Activation Analysis in Geochemistry and Cosmochemistry, 99–104, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUUT VOOR KERNPHYSISCH ONDERZOEK, OOSTERRINGDIJK 18A, AMSTERDAM, THE NETHERLANDS.

9850 Flakus, F. N., Kim, J. I., Born, H. J.

Determination of beryllium in rocks by activation analysis using the ${}^9\text{Be}(\alpha, n\gamma){}^{12}\text{C}$ reaction with ${}^{210}\text{Po}$.

Activation Analysis in Geochemistry and Cosmochemistry, 105–112, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUT FÜR RADIOCHEMIE DER TECHNISCHEN UNIVERSITÄT MÜNCHEN, GARCHING BEI MÜNCHEN, WEST GERMANY.

9851 Steinnes, E.

Epithermal neutron activation analysis of geological material.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Activation Analysis in Geochemistry and Cosmochemistry, 113–128, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUTT FOR ATOMENERGI, ISOTOPE LABORATORIES, KJELLER, NORWAY.

9852 Evans, D. J. R., Herage, T. I.

Neutron activation analysis of intact drill core.

Activation Analysis in Geochemistry and Cosmochemistry, 129–134, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). ATOMIC ENERGY OF CANADA LIMITED, COMMERCIAL PRODUCTS, RESEARCH DIVISION, OTTAWA, ONTARIO, CANADA.

9853 Das, H. A., Zonderhuis, J.

Practical aspects of activation analysis with fast neutrons and photons.

Activation Analysis in Geochemistry and Cosmochemistry, 135–141, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.

9854 Yule, H. P.

Computer data reduction in activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 145–166, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway,

September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). ACTIVATION ANALYSIS SECTION, ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

9855 Freiburg, C., Erdtmann, G., Petri, H.

Combined peaksearch and peakfit in data processing of γ -spectra.

Activation Analysis in Geochemistry and Cosmochemistry, 167–173, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). CENTRAL LABORATORY OF CHEMICAL ANALYSIS, KERNFORSCHUNGSANLAGE JULICH GMBH (KFA), JULICH, WEST GERMANY.

9856 Baedecker, P. A.

Digital methods of photopeak integration in activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 175–182, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). DEPARTMENT OF CHEMISTRY AND INSTITUTE OF GEOPHYSICS AND PLANETARY PHYSICS, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA.

9857 Webster, R. K.

On-line computers for gamma spectrometry and activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 183–197, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Universitetsforlaget, Oslo
(1971).

(ENGLISH). ANALYTICAL SCIENCES
DIVISION, A.E.R.E., HARWELL,
ENGLAND.

- 9858 Haskin, L. A., Helmke, P. A.,
Paster, T. P., Allen, R. O.
**Rare earths in meteoritic,
terrestrial, and lunar matter.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
201–218, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
WISCONSIN, MADISON, WISCONSIN.

- 9859 Abdel-Rassoul, A. A., Herpers, U.,
Herr, W.
**Improved techniques for separation
and determination of rare-earth
elements in extraterrestrial
material.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
219–226, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). INSTITUT FÜR
KERNCHEMIE DER UNIVERSITÄT ZU
KÖLN, WEST GERMANY.

- 9860 Ragland, P. C., Brunfelt, A. O.,
Weigand, P. W.
**Rare-earth abundances in Mesozoic
dolerite dikes from Eastern
United States.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
227–235, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). MINERALOGISK–GEOLOGISK
MUSEUM, OSLO, NORWAY.

9861 Kiesl, W.

- On the determination of trace
elements in meteoritic phases by
neutron activation analysis.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
243–251, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). ANALYTICAL INSTITUTE
OF THE UNIVERSITY OF VIENNA,
VIENNA, AUSTRIA.

9862 Schmidt, D.

- Neutron activation analysis of tin
in geochemical and cosmochemical
material, using 40 minute ¹²³Sn.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
293–297, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). MAX-PLANCK-INSTITUT
FÜR KERNPHYSIK, HEIDELBERG, WEST
GERMANY.

9863 Hogdahl, O. T.

- A review of the application of
activation analysis in
oceanography.**
*Activation Analysis in
Geochemistry and Cosmochemistry*,
301–310, Brunfelt, A.O. and
Steinnes, E. (Eds.), Proceedings
of the NATO Advanced Study
Institute, Kjeller, Norway,
September 7–12, 1970,
Universitetsforlaget, Oslo
(1971).

(ENGLISH). CENTRAL INSTITUTE FOR
INDUSTRIAL RESEARCH, OSLO,
NORWAY.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 9864 Turekian, K. K., Chan, L. H.
The marine geochemistry of the uranium isotopes, ^{230}Th and ^{231}Pa .
Activation Analysis in Geochemistry and Cosmochemistry, 311–320, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). DEPARTMENT OF GEOLOGY AND GEOCHEMISTRY, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.
- 9865 Kuykendall, W. E., Hoffman, B. W., Wainerdi, R. E.
Analysis of oceanographic samples from the Glomar Challenger voyage.
Activation Analysis in Geochemistry and Cosmochemistry, 321–332, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A & M UNIVERSITY, COLLEGE STATION, TEXAS.
- 9866 Santos, G. G., Walters, L. J.
Activation analysis of Philippine magnetite sands.
Activation Analysis in Geochemistry and Cosmochemistry, 333–335, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). PHILIPPINE ATOMIC ENERGY COMMISSION, MANILA, PHILIPPINES, AND BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO.
- 9867 Crocket, J. H.
Neutron activation analysis for noble metals in geochemistry.
Activation Analysis in Geochemistry and Cosmochemistry, 339–351, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). DEPARTMENT OF GEOLOGY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 9868 Millard, H. T., Bartel, A. J.
A neutron activation analysis procedure for the determination of the noble metals in geological samples.
Activation Analysis in Geochemistry and Cosmochemistry, 353–358, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.
- 9869 Gijbels, R., Millard, H. T., Desborough, G. A., Bartel, A. J.
Neutron activation analysis for osmium, ruthenium, and iridium in some silicate rocks and rock-forming minerals.
Activation Analysis in Geochemistry and Cosmochemistry, 359–370, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).
(ENGLISH). INSTITUTE FOR NUCLEAR CHEMISTRY, STATE UNIVERSITY, GHENT, BELGIUM AND U.S. GEOLOGICAL SURVEY, DENVER, COLORADO.
- 9870 De Wet, W. J., Turkstra, J., Toerien, F. V. S.
Direct determination of the noble metals by activation analysis

ACTIVATION ANALYSIS—ACCESSION NUMBERS

utilizing high-resolution gamma spectrometry.

Activation Analysis in Geochemistry and Cosmochemistry, 371–379, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). CHEMISTRY DIVISION, ATOMIC ENERGY BOARD, PRETORIA, SOUTH AFRICA.

Alps.

Activation Analysis in Geochemistry and Cosmochemistry, 397–410, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUT FÜR RADIOCHEMIE, TECHNISCHE UNIVERSITÄT MÜNCHEN, GARCHING BEI MÜNCHEN, WEST GERMANY.

9871 Wood, E. D., Hood, D. W.

Determination of gold in geological materials by neutron activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 381–390, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). INSTITUTE OF MARINE SCIENCES, UNIVERSITY OF ALASKA, COLLEGE, ALASKA.

9874 Gorlich, W., Moller, P., Schneeweib, F.

Measurements of isotope abundance shifts by means of neutron activation analysis.

Activation Analysis in Geochemistry and Cosmochemistry, 423–428, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). NUCLEAR CHEMISTRY DIVISION, HAHN-MEITNER INSTITUTE, BERLIN, WEST GERMANY.

9872 Marowsky, G.

Sensitivity ranges in neutron activation analysis of some rare trace elements (Cd, Hg, Tl, Bi) in silicate samples.

Activation Analysis in Geochemistry and Cosmochemistry, 391–396, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). GEOCHEMISCHES INSTITUT DER UNIVERSITÄT, GOTTINGEN, WEST GERMANY.

9875 Behne, D.

Multi-element separation for activation analysis using countercurrent electrolysis.

Activation Analysis in Geochemistry and Cosmochemistry, 431–435, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). NUCLEAR CHEMISTRY DIVISION, HAHN-MEITNER INSTITUTE, BERLIN, WEST GERMANY.

9873 Kim, J. I., Stark, H.

Study on the monostandard activation analysis and its application to geological samples: Investigation of scheelite deposits in the East

9876 Nissen, H. U., Rybach, L.

Feldspar analysis by neutron activation.

Activation Analysis in Geochemistry and Cosmochemistry, 437–443, Brunfelt, A.O. and

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). LABOR FÜR ELEKTRONENMIKROSKOPIE, ETH-AUSSENSTATION HONOGGERBERG, ZÜRICH AND INSTITUT FÜR KRISTALLOGRAPHIE UND PETROGRAPHIE, EIDG. TECHN. HOCHSCHULE, ZÜRICH, SWITZERLAND.

9877 Oosterom, M. G., Das, H. A.

Determination by neutron activation analysis of alkali and other trace elements in ultramafic rocks.

Activation Analysis in Geochemistry and Cosmochemistry, 455–459, Brunfelt, A.O. and Steinnes, E. (Eds.), Proceedings of the NATO Advanced Study Institute, Kjeller, Norway, September 7–12, 1970, Universitetsforlaget, Oslo (1971).

(ENGLISH). DEPARTMENT OF GEOCHEMISTRY, VENING MEINESZ LABORATORY, UNIVERSITY OF UTRECHT, AND DEPARTMENT OF CHEMISTRY, REACTOR CENTRUM NEDERLAND, PETTEN, THE NETHERLANDS.

9878 Bowen, H. J. M.

The use of activation analysis in biochemistry.

Proc. Assn. Clin. Biochem., **4**, 15–16 (1966).

(ENGLISH). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY, READING.

9879 Ryabukhin, Y. S., Melnik, A. D., Kharlampovich, S. I., Obaturov, G. M., Kozlov, V. A.

Determination of the content of stable iodine in the thyroid gland by the method of activation of supercadmium neutrons without destruction of the sample.

Med. Radiol., **13**, No. 4, 54–58 (1968).

(RUSSIAN) (ENGLISH SUMMARY).

LABORATORIYA DOZIMETRII I RADIOMETRII IZOTOPOV PRI VNUSTRENNEM OBLUCHENII, INSTITUTA MEDITSINSKOI RADIOLOGII AMH SSSR.

9880 Akabirov, B. B., Akbaev, R. A., Vakilova, G., Mazitov, B. S., Mukhamedov, S.

Oxygen determination by proton activation analysis.

Issled. Yad. Teor. Fiz., 33–34, Lobanov, E.M. (Ed.), Izd. Fan Uzb. SSR, Tashkent (1969).

(RUSSIAN). RUSSIA.

9881 Brewer, H. W.

Radioisotope techniques: Laboratory.

Techniques in Clinical Physiology, 298–318, Bellville, J.W. and Weaver, C.S. (Eds.), McMillan Co., Toronto, Ontario (1969).

(ENGLISH). SCHOOL OF MEDICINE, STANFORD UNIVERSITY, STANFORD, CALIFORNIA.

9882 Molokhia, M. M., Smith, H.

The behaviour of antimony in blood.

J. Tropical Medicine Hygiene, **72**, 222–225 (1969).

(ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY OF GLASGOW, GLASGOW, SCOTLAND.

9883 Blada, J., Tolgyessy, J.

Activation analysis in stomatology.

Cesk. Stomatol., **69**, 150–160 (May 1969).

(CZECHOSLOVAKIAN) (RUSSIAN AND ENGLISH SUMMARIES). KATEDRA RADIOCHEMIE A RADIACNEJ CHEMIE, CHEMICKO-TECHNOLOGICKA FAKULTA SVST, BRATISLAVA, CZECHOSLOVAKIA.

9884 Schramel, P.

Determination of oxygen in aluminum by means of activation analysis using 14 MeV neutrons.

Internationale Leichtmetalltagung Leoben, 5th, 27–28 (1968).

(GERMAN) (ENGLISH AND FRENCH SUMMARIES). GESELLSCHAFT FÜR

ACTIVATION ANALYSIS - ACCESSION NUMBERS

STRAHLENFORSCHUNG, NEUHERBERG/MUN
CHEN, GERMANY.

Atomtech. Tajek., **13**, 170-174
(1970).

(HUNGARIAN). MTA ATOMMAG KUTATO
INTEZETE, DEBRECEN.

9885 Perezhogin, G. A.

**Modern methods and areas of use of
radioactivation analysis
(review).**

Sovrem. Metody Anal. Mater.,
40-54, Orient, I.M. (Ed.), Otd.
Metallurgiya, Moscow (1969).

(RUSSIAN). RUSSIA.

9891 Sorantin, H.

**Analytical control of
radiopharmaceuticals in the
Department of Chemistry, Reactor
Centre, Seibersdorf.**

*Analytical Control of
Radiopharmaceuticals*, 69-81,
Vienna, International Atomic
Energy Agency (1970).

(ENGLISH). OSTERREICHISCHE
STUDIENGESELLSCHAFT FUR
ATOMENERGIE, VIENNA, AUSTRIA.

9886 Downs, W. E.

**How neutrons take on process
control.**

Can. Contr. Instrum., **8**, 42-44
(December 1969).

(ENGLISH). RESEARCH DIVISION,
COMMERCIAL PRODUCTS, ATOMIC
ENERGY OF CANADA LTD., OTTAWA,
CANADA.

9892 Caldwell, R. J.

**Comparison of PVC [poly(vinyl
chloride)] coated samples of
copper cable by neutron
activation analysis.**

Forensic Sci. Soc., J., **10**, No. 2,
69-72 (1970).

(ENGLISH). COMMONWEALTH POLICE
FORCE, KINGSTON, A.C.T.,
AUSTRALIA.

9887 Comar, D.

**Biological and pharmacological
applications of activation
analysis.**

International Conference on
Radioactive Isotopes in
Pharmacology, Geneva, 20-23
September 1967, 91-112, Waser,
P.G. and Glasson, B. (Eds.), John
Wiley & Sons Ltd. (1969).

(FRENCH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, SERVICE
HOSPITALIER FREDERIC JOLIOT,
ORSAY, FRANCE.

9893 Rasmussen, E. G.

**Strontium and manganese
concentrations in mandibular rat
incisors following intraperitoneal
injections.**

Tandlaegebladet, **74**, 696-702
(1970).

(DANISH) (ENGLISH SUMMARY).
DENMARK.

9888 Ferguson, G. A.

**Low-energy activation analysis for
geochemical exploration.**

N-70-42813 (NASA-CR-110888), 19p.
(1 August 1970).

(ENGLISH). HOWARD UNIVERSITY,
WASHINGTON, D.C.

9894 Munera, H. A., Spyrou, N. M.

**Application of Compton-scattering
techniques to activation
analysis. A short evaluation.**

Nucl. Energy, **11**, 148-150
(September-October 1970).

(ENGLISH). RADIATION UNIT,
UNIVERSITY OF SURREY, GUILDFORD,
ENGLAND.

9889 Harry, R. J. S.

Ge(Li) radiation detectors.

Atoomenergie Haar Toepass., **12**,
147-153, 156-164 (May 1970).

(DUTCH). NETHERLANDS.

9895 Morimitsu, W., Ishizuka, Y.

**Preparation of a lithium-doped
germanium detector and its
application to activation
analysis.**

Kanagawa-Ken Kogyo Shikensho

9890 Berenyi, D.

**Modern physical methods for the
analytical determination of iron.**

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Kenkyu Hokoku*, No. 29, 37–42
(1970).
(JAPANESE). INDUSTRIAL RESEARCH
INSTITUTE, YOKOHAMA, JAPAN.
- 9896 Navalikhin, L. V., Kireev, V. A.,
Talanin, Y. N.
**Rapid method for determining
germanium, aluminum, and silicon
contents in coal using a neutron
generator.**
Khim. Tverd. Topl., No. 4, 149–151
(1970).
(RUSSIAN). INSTITUT YADERNOI
FIZIKI, AN UZSSR.
- 9897 Miskovits, G., Orban, E., Dubay,
M., Appel, J., Ordogh, M., Szabo,
E.
**Determination of silicon by
neutron activation analysis in
lymphatic glands.**
Munkavedelem, 16, 45–47 (1970).
(HUNGARIAN). BUDAPESTI
ORVOSTUDOMANYI EGYETEM
TUDOGYOGYASZATI KLINIKAJANAK ES A
KFKI KEMIAMI KUTATO FOOSZTALY
KOZLEMENYE.
- 9898 Williams, J. L., Cargol, L. H.,
Pailthorp, K. G., Nelp, W. B.
**Neutron activation analysis of
total-body phosphorus in mice.**
J. Nucl. Med., 11, 576–579
(October 1970).
(ENGLISH). UNIVERSITY OF
WASHINGTON SCHOOL OF MEDICINE,
SEATTLE, AND THE BATTELLE
NORTHWEST LABORATORIES, RICHLAND,
WASHINGTON.
- 9899 Zadvornyi, A. S., Gorenko, A. F.,
Skakun, N. A.
**Possibility of determining
substoichiometric ratios by an
activation method.**
J. Anal. Chem., USSR, 25, No. 5,
749–751 (1970).
(ENGLISH TRANSLATION).
PHYSICOTECHNICAL INSTITUTE,
ACADEMY OF SCIENCES OF THE
UKRAINIAN SSR, KHARKOV.
- 9900 Lorenz, W. J., Scheer, K. E.
**The use of a TRIGA reactor in a
Nuclear Medical Department.
Radioactive Isotopes in the
Localization of Tumours**, 95–98,
McCready, V.R., (Ed.), London,
William Heinemann Medical Books,
Ltd. (1969).
(ENGLISH). INSTITUTE FOR NUCLEAR
MEDICINE OF THE GERMAN CANCER
RESEARCH CENTER, HEIDELBERG,
F.R.G.
- 9901 Garrec, J. P., Fourcy, A.
**Fast analysis by 14 MeV neutron
activation of fluorine deposits
on the vegetation in a polluted
area.**
CEA–CONF–1747, 8p. (July 1970).
(FRENCH). LABORATOIRE DE
BIOLOGIE VEGETALE, CENTRE
D'ETUDES NUCLEAIRES DE GRENOBLE.
- 9902 Shibuya, M.
**Trends in the utilization of
radiations and radioisotopes.
Applications in agriculture.**
Genshiryoku Kogyo, 16, No. 4,
104–106 (April 1970).
(JAPANESE). NATIONAL INSTITUTE
OF AGRICULTURAL SCIENCES, TOKYO.
- 9903 Riektstinya, D. V., Vevere, I. E.
**Express neutron activation method
for aluminum determination in Al
coordination compounds.**
*Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser.*, No. 4,
125–126 (1970).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUT FIZIKI AN LATV. SSR.
- 9904 Bando, S., Imahashi, T.
**Determination of scandium,
chromium, iron, cobalt, zinc, and
antimony in deposits and airborne
particulate by neutron activation
analysis.**
Bunseki Kagaku, 20, No. 1, 49–56
(1970).
(JAPANESE) (ENGLISH SUMMARY).
JAPAN ATOMIC ENERGY RESEARCH
INSTITUTE, OARAI-MACHI,
HIGASHI-IBARAKI-GUN, IBARAKI-KEN.
- 9905 Journal American Medical
Association

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Copper test may diagnose cystic fibrosis.

J. Amer. Med. Assn., **212**, 2039 (22 June 1970).

(ENGLISH). USA.

9906 Schlesinger, H. L., Lukens, H. R., Bryan, D. E., Guinn, V. P., Hackleman, R. P.

Forensic neutron activation analysis of paint.

GA-10142, 261p. (1970).

(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.

9907 Lukens, H. R., Schlesinger, H. L.
Applications of neutron activation analysis in scientific crime investigation.

GA-10276, 109p. (2 September 1970).

(ENGLISH). GULF GENERAL ATOMIC INC., SAN DIEGO, CALIFORNIA.

9908 Fenyes, T.

Isochronous cyclotrons and their applications.

Magy. Fiz. Foly., **18**, 110-149 (1970).

(HUNGARIAN). MTA ATOMMAG KUTATO INTEZET, DEBRECEN.

9909 Damburgs, N. A., Pelekis, L. L.
Application of cadmium filter in activation analysis with reactor neutrons.

Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 4, 19-26 (1970).

(RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AN LATV. SSR.

9910 Abbosov, O., Abrams, I. A., Kodiri, S., Pelekis, L. L., Starchik, L. P.

Determination of beryllium by (γ ,n) reaction in LINAC.

Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 4, 27-30 (1970).

(RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AN LATV. SSR.

9911 Abrams, I. A., Birze, M. R., Breslav, V. I., Pelekis, L. L., Taure, I. Y.

Investigation of the possibility of determination of the emulsion thickness of photographic films using the neutron activation analysis.

Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 4, 31-36 (1970).

(RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AN LATVIISKOI SSR.

9912 Kosta, L., Ravnik, V., Levstek, M.
Adsorption of vanadium on aluminum and zirconium oxides and its application to analytical separations.

Radiochim. Acta, **14**, 143-146 (November 1970).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUT JOZEF STEFAN AND FACULTY OF NATURAL SCIENCES, UNIVERSITY OF LJUBLJANA, LJUBLJANA, YUGOSLAVIA.

9913 Ohno, S., Yatazawa, M.

Simultaneous determination of arsenic and antimony in soil by neutron activation analysis.

Radioisotopes (Tokyo), **19**, 565-569 (December 1970).

(ENGLISH) (JAPANESE SUMMARY). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, ANAGAWA, CHIBA-SHI, AND FACULTY OF AGRICULTURE, NAGOYA UNIVERSITY, FURO-CHO, CHIKUSA-KU, NAGOYA, JAPAN.

9914 Tensho, K., Yeh, K. L.

Study on iodine and bromine in soil-plant system in relation to the reclamation-Akagare disease of lowland rice by means of radioisotope techniques.

Radioisotopes (Tokyo), **19**, 574-579 (December 1970).

(ENGLISH) (JAPANESE SUMMARY). RADIOISOTOPE SCHOOL, JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, HON-KOMAGOME, BUNKYO-KU, TOKYO.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9915 Dhalenne, G., Rouchaud, J. C., Revel, G., Revcolevski, A.
Purification of alumina by the zone melting method and its analysis by activation.
Compt. Rend., Ser. C, **272**, 538–540 (8 February 1971).
 (FRENCH). LABORATOIRE DE CHIMIE APPLIQUEE DE L'ETAT SOLIDE, CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY, VAL-DE-MARNE, FRANCE.
- 9916 Keays, R. R., Ganapathy, R., Anders, E.
Chemical fractionations in meteorites. IV. Abundances of fourteen trace elements in L chondrites; implications for cosmothemometry.
Geochim. Cosmochim. Acta, **35**, 337–363 (April 1971).
 (ENGLISH). ENRICO FERMI INSTITUTE AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.
- 9917 Lisovskii, I. P., Smakhtin, L. A., Vinnik, M. M., Zakharova, S. N.
Simultaneous determination of fluorine and strontium in phosphates by fast neutron activation.
Khim. Prom. (Moscow), **47**, No. 3, 235 (1971).
 (RUSSIAN). RUSSIA.
- 9918 Gijbels, R.
Analytical chemistry and space research.
Meded. Vlaam. Chem. Ver., **33**, No. 1, 1–32 (1971).
 (DUTCH). RIJKSUNIVERSITEIT – GENT, INSTITUUT VOOR NUCLEAIRE WETENSCHAPPEN GENT, BELGIUM.
- 9919 Kato, M., Sato, O.
Applications of radioisotopes and radiation technology to chemical analysis.
Seisan–Kenkyu, **23**, No. 2, 59–66 (1971).
 (JAPANESE). INSTITUTE INDUSTRIAL SCIENCE, UNIVERSITY TOKYO, TOKYO, JAPAN.
- 9920 Pung, T. C., Kato, T., Oka, Y.
Photon-activation analysis for zirconium with molybdenum used as the internal reference element.
Bull. Chem. Society Japan, **44**, No. 4, 1031–1034 (1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, FACULTY OF SCIENCE, TOHOKU UNIVERSITY, KATAHIRA-CHO, SENDAI, JAPAN.
- 9921 Booth, D., Cooke, F., Scholes, P. H.
Assessment of the performance of fusion and neutron activation techniques for oxygen determination in steel.
 PB-195789, 13p. (1971).
 (ENGLISH). METALLURGICAL DEPARTMENT, BRITISH STEEL CORP., LONDON, ENGLAND.
- 9922 Lombard, S. M., Marlow, K. W., Tanner, J. T.
The determination of antimony in standard rocks by instrumental neutron activation analysis.
Anal. Chim. Acta, **55**, No. 1, 13–17 (1971).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). NAVAL RESEARCH LABORATORY, WASHINGTON, D.C., AND FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C.
- 9923 Hoch, F. L., Kuras, R. A., Jones, J. D.
Iodine analysis of biological samples by neutron activation of ¹²⁷I, with scintillation counting of Cherenkov radiation.
Anal. Biochem., **40**, 86–94 (March 1971).
 (ENGLISH). DEPARTMENTS OF INTERNAL MEDICINE AND BIOLOGICAL CHEMISTRY, THE KRESGE RADIOISOTOPE UNIT, AND THE MICHIGAN MEMORIAL PHOENIX LABORATORY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 9924 Mahler, D. J., Scott, A. E., Walsh, J. R., Haynie, G.
A study of trace metals in fingernails and hair using neutron activation analysis.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- J. Nucl. Med.*, **11**, 739–742
(December 1970).
(ENGLISH). VETERANS
ADMINISTRATION HOSPITAL AND REED
COLLEGE, PORTLAND, OREGON.
- 9925 Wald, M., Kaysser, B.
**Determination of traces of
magnesium and manganese in
biological material by activation
analysis.**
Mikrochim. Acta, No. 6, 1137–1144
(1970).
(GERMAN) (ENGLISH SUMMARY).
ZENTRALLABOR FÜR CHEMISCHE
ANALYSE DER KERNFORSCHUNGSANLAGE
JULICH GMBH, JULICH,
BUNDESREPUBLIK DEUTSCHLAND.
- 9926 Ruzicka, J.
**Substoichiometric methods in trace
element analysis.**
Forsk. Udvikling–Uddannelse, **78**,
No. 10, 259–264 (1969).
(DANISH). KEMISK LABORATORIUM A,
DANMARKS TEKNISKE HOJSKOLE.
- 9927 Rakovic, M.
**Estimation of arsenic in
biological material by activation
analysis.**
Cas. Lek. Cesk., **108**, 1102–1104 (5
September 1969).
(CZECHOSLOVAKIAN) (RUSSIAN,
ENGLISH AND FRENCH SUMMARIES).
KATEDRA LEKARSKE FYZIKY A
NUKLEARNI MEDICINY FAKULTY
VSEOBECNEHO LEKARSTVI KU, PRAHA.
- 9928 Abdullaev, A. A., Sharipov, E. B.,
Khudaibergenov, U., Khasanov, A.
S.
**Radioactivation method for
determining selenium, tellurium,
and gold in natural waters.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.–Mat. Nauk*, **15**, No. 2, 71–72
(1971).
(RUSSIAN). INSTITUT YADERNOI
FIZIKI AN UZSSR.
- 9929 Tamura, M.
**Application of fast neutrons to
activation analysis of petroleum
products.**
- Genshiryoku Kogyo*, **16**, No. 12,
68–72 (1970).
(JAPANESE). JAPAN.
- 9930 Tamura, M., Taira, S.
**Self-shielding and self-absorption
effects in oxygen-analysis by 14
MeV neutron activation.**
Radioisotopes, **19**, No. 12, 605–608
(1970).
(JAPANESE). GOVERNMENT RESERCH
INSTITUTE, KAWAGUCHI, JAPAN.
- 9931 Nakane, M., Ishikawa, H., Miyake,
Y.
**Activation determination of oxygen
in phosphorus with fast neutrons.**
Radioisotopes, **20**, No. 1, 7–11
(1971).
(JAPANESE) (ENGLISH SUMMARY).
GOVERNMENT INDUSTRIAL RESEARCH,
OSAKA, MIDORIGAOKA-8, IKEDA,
OSAKA, JAPAN.
- 9932 Takeo, T., Shibuya, M.
**Determination of trace elements in
tea plant by neutron activation
analysis.**
Radioisotopes (Tokyo), **20**, 25–28
(January 1971).
(ENGLISH). TEA RESEARCH STATION,
MINISTRY OF AGRICULTURE AND
FORESTRY, KANAYA, HAIBARA,
SHIZUOKA, AND NATIONAL INSTITUTE
OF AGRICULTURAL SCIENCE, M.A.F.,
TOKYO.
- 9933 Mott, W. E.
**Isotopic techniques in the study
and control of environmental
pollution.**
*Nuclear Techniques in
Environmental Pollution*, 3–46,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). DIVISION OF ISOTOPES
DEVELOPMENT, UNITED STATES
ATOMIC ENERGY COMMISSION,
WASHINGTON, D.C.
- 9934 Salmon, L., Creevy, M. G.
**An on-line computer system for
instrumental activation analysis
of air, water, and soil.**
Nuclear Techniques in

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- Environmental Pollution*, 47–61, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). HEALTH PHYSICS AND MEDICAL DIVISION, AERE, HARWELL, DIDCOT, BERKS, ENGLAND.
- 9935 Terrill, J. G.
Limitations and needs for nuclear techniques in environmental control.
Nuclear Techniques in Environmental Pollution, 81–89, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). WORLD HEALTH ORGANIZATION, GENEVA.
- 9936 Marlow, W. F., La Fleur, P. D.
Standard reference materials for the analysis of environmental samples.
Nuclear Techniques in Environmental Pollution, 91–94, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). U.S. ATOMIC ENERGY COMMISSION AND NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C.
- 9937 Tuttle, R. F., Vogt, J. R., Parkinson, T. F.
Neutron activation analysis of trace elements in airborne particulates.
Nuclear Techniques in Environmental Pollution, 119–137, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 9938 Dams, R., Robbins, J. A., Rahn, K. A., Winchester, J. W.
Quantitative relationships among trace elements over industrialized N.W. Indiana.
Nuclear Techniques in Environmental Pollution, 139–157, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). INSTITUTE OF NUCLEAR SCIENCES, GHENT, BELGIUM, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN AND FLORIDA STATE UNIVERSITY, TALLAHASSEE, FLORIDA.
- 9939 Bando, S., Yamane, Y., Murakami, Y.
Radioactivation analysis for the determination of trace elements in air pollutants.
Nuclear Techniques in Environmental Pollution, 169–181, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, FACULTY OF PHARMACEUTICAL SCIENCES, UNIVERSITY OF CHIBA, CHIBA CITY AND DEPARTMENT OF CHEMISTRY, TOKYO METROPOLITAN UNIVERSITY, TOKYO, JAPAN.
- 9940 Currie, L. A., De Voe, J. R.
The isotope separator as a tool for low-level radioassay and trace activation analysis.
Nuclear Techniques in Environmental Pollution, 183–190, Vienna, International Atomic Energy Agency (1971).
(ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 9941 Guerin, P., Hugon, J., Le Quinio, R., Rzekiecki, R., Santell, F., Sarteur, R.
Use of activable tracers for studying the diffusion of atmospheric pollutants: Industrial applications.
Nuclear Techniques in Environmental Pollution, 267–282, Vienna, International Atomic Energy Agency (1971).
(FRENCH) (ENGLISH SUMMARY). CEA, CENTRE D'ETUDES NUCLEAIRES DE CADARACHE, FRANCE.
- 9942 Dahl, J. B., Steinnes, E., Thomassen, J.
Air pollution studies by means of inactive indium tracer and activation analysis.
Nuclear Techniques in Environmental Pollution, 283–296, Vienna, International Atomic

ACTIVATION ANALYSIS – ACCESSION NUMBERS

- Energy Agency (1971).
(ENGLISH). INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.
- 9943 Edgington, D. N., Lucas, H. F.
**A semi-automatic method of neutron
activation analysis with
application to environmental
studies.**
*Nuclear Techniques in
Environmental Pollution*, 311–322,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 9944 Thatcher, L. L., Johnson, J. O.
**A comprehensive program in neutron
activation analysis in water
quality.**
*Nuclear Techniques in
Environmental Pollution*, 323–328,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). U.S. GEOLOGICAL
SURVEY, DENVER, COLORADO.
- 9945 Draskovic, R., Tasovac, T.,
Radosavljevic, R.
**Neutron activation analysis of the
aquatic environment in the
Danube.**
*Nuclear Techniques in
Environmental Pollution*, 329–334,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). BORIS KIDRIC
INSTITUTE OF NUCLEAR SCIENCES,
BELGRADE, YUGOSLAVIA.
- 9946 Guinn, V. P., Bryan, D. E.,
Lukens, H. R.
**The trace-element characterization
of crude oils and fuel oils via
instrumental neutron activation
analysis.**
*Nuclear Techniques in
Environmental Pollution*, 347–359,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). GULF GENERAL ATOMIC,
INC., SAN DIEGO, CALIFORNIA.
- 9947 Ljunggren, K., Sjostrand, B.,
Johnels, A. G., Olsson, M.,
Otterlind, G., Westermark, T.
**Activation analysis of mercury and
other environmental pollutants in
water and aquatic ecosystems.**
*Nuclear Techniques in
Environmental Pollution*, 373–405,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). ISOTOPES TECHNIQUES
LABORATORY, STOCKHOLM, SWEDISH
MUSEUM OF NATURAL HISTORY,
STOCKHOLM, INSTITUTE OF MARINE
RESEARCH, LYSEKIL AND ROYAL
INSTITUTE OF TECHNOLOGY, DIVISION
OF NUCLEAR CHEMISTRY, STOCKHOLM,
SWEDEN.
- 9948 Byrne, A. R., Dermelj, M., Kosta,
L.
**A neutron activation study of
environmental contamination and
distribution of mercury in
animals and fish.**
*Nuclear Techniques in
Environmental Pollution*, 415–427,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). JOZEF STEFAN
INSTITUTE, AND UNIVERSITY OF
LJUBLJANA, LJUBLJANA, YUGOSLAVIA.
- 9949 Lag, J., Steinnes, E.
**Study of mercury and iodine
distribution in Norwegian forest
soils by neutron activation
analysis.**
*Nuclear Techniques in
Environmental Pollution*, 429–438,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). AGRICULTURAL COLLEGE
OF NORWAY, VOLLEBEKK AND
INSTITUTT FOR ATOMENERGI,
KJELLER, NORWAY.
- 9950 Merlini, M., Bigliocca, C., Berg,
A., Pozzi, G.
**Trends in the concentration of
heavy metals in organism of a
mesotrophic lake as determined by
activation analysis.**
*Nuclear Techniques in
Environmental Pollution*, 447–458,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). DIVISION OF BIOLOGY

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- AND NUCLEAR CHEMISTRY, ISPRA,
ITALY.
- 9951 Wainerdi, R. E., Fite, L. E.,
Kuykendall, W. E.
**Nuclear analytical methods and
systems for the measurement of
trace constituents in the
environment.**
*Nuclear Techniques in
Environmental Pollution*, 459-480,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, COLLEGE OF
ENGINEERING, TEXAS A & M
UNIVERSITY, COLLEGE STATION,
TEXAS.
- 9952 Fourcy, A., Fer, A., Garrec, J.
P., Neuburger, M.
**Neutron activation analysis in the
detection of pollutant elements
retained by plants: Application
to elements taken up from
pesticides and industrial fumes.**
*Nuclear Techniques in
Environmental Pollution*, 507-519,
Vienna, International Atomic
Energy Agency (1971).
(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE DE BIOLOGIE VEGETALE,
CEA, CENTRE D'ETUDES NUCLEAIRES
DE GRENOBLE, FRANCE.
- 9953 Dahl, J. B., Haagensem, U. H.,
Thomassen, J., Tollan, O.
**Water pollution studies by means
of inactive indium tracer and
activation analysis.**
*Nuclear Techniques in
Environmental Pollution*, 663-672,
Vienna, International Atomic
Energy Agency (1971).
(ENGLISH). INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.
- 9954 Bowen, H. J. M.
**Comparative elemental analyses of
a standard plant material.**
Analyst, **92**, 124-131 (1967).
(ENGLISH). CHEMISTRY DEPARTMENT,
THE UNIVERSITY, READING, BERKS.,
ENGLAND.
- 9955 Mamuro, T.
**Radioactivation analysis of metal
elements in airborne dust.**
Nenryo Oyobi Nensho, **37**, No. 10,
937-945 (1970).
(JAPANESE). CENTRAL LABORATORY
RADIATION RESEARCH, OSAKA, JAPAN.
- 9956 Berenyi, D.
**Modern physical techniques in
analytic chemistry.**
*ATOMKI (Atommag Kut. Intez.)
Kozlem.*, **12**, No. 1-2, 17-42
(1970).
(HUNGARIAN). HUNGARY.
- 9957 Fite, L. E., Wainerdi, R. E.
**Automated nuclear activation
analysis in geochemistry.**
Miner. Sci. Eng., **2**, No. 3, 3-16
(1970).
(ENGLISH). TEXAS A & M
UNIVERSITY, COLLEGE STATION,
TEXAS.
- 9958 Morrison, G. H.
**Evaluation of lunar elemental
analyses.**
Anal. Chem., **43**, No. 7, 22A-23A,
25A-31A (1971).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, CORNELL UNIVERSITY,
ITHACA, N.Y.
- 9959 Cooper, J. A.
**Radioanalytical applications of
gamma-gamma coincidence
techniques with lithium-drifted
germanium detectors.**
Anal. Chem., **43**, No. 7, 838-845
(1971).
(ENGLISH). RADIOLOGICAL SCIENCES
DEPARTMENT, BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORIES, RICHLAND,
WASHINGTON.
- 9960 Heurtebise, M., Lubkowitz, J. A.
**Utilization of the matrix as a
standard in trace analysis by
neutron activation analysis.
Analysis of cadmium doped sodium
chloride crystals.**
Anal. Chem., **43**, No. 10, 1218-1221
(1971).
(ENGLISH). QUIMICA NUCLEAR,

ACTIVATION ANALYSIS—ACCESSION NUMBERS

INSTITUTO VENEZOLANO DE
INVESTIGACIONES CIENTIFICAS,
CARACAS, VENEZUELA.

(ENGLISH). FACULTY OF NATURAL
SCIENCES AND TECHNOLOGY, AND
JOZEF STEFAN INSTITUTE,
UNIVERSITY OF LJUBLJANA,
YUGOSLAVIA.

9961 Ohno, S.

**Determination of iodine and
bromine in biological materials
by neutron activation analysis.**

Analyst (London), **96**, No. 1143,
423-426 (1971).

(ENGLISH). NATIONAL INSTITUTE OF
RADIOLOGICAL SCIENCES, ANAGAWA,
CHIBA-SHI, JAPAN.

9966 Nadkarni, R. A., Haldar, B. C.

**Substoichiometric determination of
selenium by neutron activation
analysis.**

Radiochem. Radioanal. Letters, **7**,
No. 5-6, 305-311 (1971).

(ENGLISH). INORGANIC AND NUCLEAR
CHEMISTRY LABORATORY, INSTITUTE
OF SCIENCE, BOMBAY, INDIA.

9962 Walters, L. J., Winchester, J. W.

**Neutron activation analysis of
sediments for halogens using
Szilard-Chalmers reactions.**

Anal. Chem., **43**, No. 8, 1020-1025
(1971).

(ENGLISH). DEPARTMENT OF GEOLOGY
AND GEOPHYSICS, MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASSACHUSETTS.

9967 Doctor, Z. K., Haldar, B. C.

**Substoichiometric determination of
nickel in steel by neutron
activation analysis.**

Radiochem. Radioanal. Letters, **7**,
No. 5-6, 339-343 (1971).

(ENGLISH). INORGANIC AND NUCLEAR
CHEMISTRY LABORATORY, INSTITUTE
OF SCIENCE, BOMBAY, INDIA.

9963 Becknell, D. E., Marsh, R. H.,
Allie, W.

**Use of anion exchange resin loaded
paper in the determination of
trace mercury in water by neutron
activation analysis.**

Anal. Chem., **43**, No. 10, 1230-1233
(1971).

(ENGLISH). SCIENTIFIC RESEARCH
STAFF, FORD MOTOR COMPANY,
DEARBORN, MICHIGAN.

9968 Lanfranco, G.

**Analysis of high purity tin by
neutron activation.**

Met. Ital., **63**, No. 5, 225-232
(1971).

(ITALIAN). CENTRO RICERCHE
METALLURGICHE S.P.A. TORINO.

9964 Byrne, A. R.

**Neutron activation analysis of tin
in biological samples by a rapid
extraction separation of Sn-123m.**

Radiochem. Radioanal. Letters, **7**,
No. 5-6, 287-293 (1971).

(ENGLISH). JOZEF STEFAN
INSTITUTE, LJUBLJANA, YUGOSLAVIA.

9969 Jones, J. D., Rottschaefer, J. M.,
Mark, H. B., Paulsen, K. E.,
Patriarche, G. J.

**Neutron activation determination
of traces of mercury in
biological systems.**

Mikrochim. Acta, No. 3, 399-404
(1971).

(FRENCH) (ENGLISH AND GERMAN
SUMMARIES). PHOENIX MEMORIAL
LABORATORY, UNIVERSITY OF
MICHIGAN, ANN ARBOR, MICHIGAN,
DEPARTMENT OF CHEMISTRY,
UNIVERSITY OF CINCINNATI, OHIO
AND INSTITUT DE PHARMACIE,
UNIVERSITE LIBRE DE BRUXELLES,
BELGIUM.

9965 Kosta, L., Ravnik, V.

**Impurities in analytical and
suprapure reagents: Application of
activation analysis for the
determination of Cl, As, Cu, Mn,
Na in mineral acids, ammonia and
hydrogen peroxide.**

Radiochem. Radioanal. Letters, **7**,
No. 5-6, 295-301 (1971).

9970 Levitin, V. V.

**On the study of boron distribution
in alloys by the method of**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

neutron activation.

Byul. Nauchn. Tekhn. Inform., Ukr. Nauchn. Issled. Inst. Metal., No. 8, 78–80 (1960).

(RUSSIAN). RUSSIA.

9971 Radman, M., Zmija, J.

The metallographic radioactivation method for investigating the segregation of copper in Al–Cu alloys in the dependence of the heat treatment.

Pierwsze Krajowe Sympozjum Zastosowaii Isotopow w Technice, 16p., Warsaw, Osrodek Informacji (1961).

(POLISH). POLAND.

9972 Daudin–Clavaud, P., Swyngedauw, J.

Metabolism of iodine and functional study of the thyroid.

Ann. Clin. Biol., 23, 701–749 (1965).

(FRENCH). CENTRE OSCAR LAMBRET, LILLE, FRANCE.

9973 Holden, W.

Milk in radioactive irradiation.

Lebensm. Ernaehr., 19, 4–8 (September 1966).

(GERMAN). UNIVERSITY GRAZ.

9974 Liljenzin, J. O.

Activation analysis.

Metal Catal. Lipid Oxid., SIK (Sv. Inst. Konserveringsforsk.) Symp., Pap. Discuss. 1967, 53–60, Marcuse, R. (Ed.), Sv. Inst. Konserveringsforsk. Symp., Goteborg, Sweden (1968).

(ENGLISH). CHALMERS UNIVERSITY TECHNOLOGY, GOTEBOG, SWEDEN.

9975 Adam, L.

Possible application of 10^5 – 10^6 neutrons/cm²–sec thermal neutron sources in geological and mining research.

Banyasz. Kut. Intez., Kozlem., 13, No. 2, 227–249 (1969).

(HUNGARIAN). TUDOMANYOS OSZTALYVEZETO, HUNGARY.

9976 Kobayashi, M.

Application of activation analysis to the evaluation of textile stain removal property.

Seni, 21, 606–609 (October 1969). (JAPANESE). JAPAN.

9977 Rempot–Horvath, Z., Ordogh, M.

Removal of inorganic ions from solutions with ion–exchange cellulose loose fibers; checking of the purified substances by neutron activation analysis.

Proceeding Analytical Chemistry Conference, 3rd, 1, 105–109, Buzas, I. (Ed.), Akad. Kiado, Budapest, Hungary (1970).

(ENGLISH). INSTITUTE INORGANIC ANALYTICAL CHEMISTRY, L. EOTVOS UNIVERSITY, BUDAPEST, HUNGARY.

9978 Spevackova, V., Krivanek, M.

Dithizone as a stationary phase in reversed–phase chromatography used in activation analysis.

Proceedings Analytical Chemistry Conference, 3rd, 1, 121–126, Buzas, I. (Ed.), Akad. Kiado, Budapest, Hungary (1970).

(ENGLISH). NUCLEAR RESEARCH INSTITUTE, CZECHOSLOVAKIAN ACADEMY OF SCIENCES, REZ, CZECHOSLOVAKIA.

9979 Rakovskii, E. B., Serebryanyi, B. L., Rabinovich, B. S.

Application of solvent extraction in the determination of trace amounts of noble metals by radioactivation analysis.

Proceedings Analytical Chemistry Conference, 3rd, 1, 153–158, Buzas, I. (Ed.), Akad. Kiado, Budapest, Hungary (1970).

(ENGLISH). NUCLEAR PHYSICO-CHEM. ANAL., MOSCOW, USSR.

9980 Onuma, N.

Determination of trace amounts of rare earth elements in hot spring water using neutron activation analysis.

Onsen Kogakkaishi, 4, No. 3, 133–141 (March 1967).

(JAPANESE). TOKYO UNIVERSITY.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 9981 Nagy, L. G., Torok, G., Giber, J., Szokolyi, L.
Determination of copper and gold trace impurities in high purity gallium by activation analysis with pretreatment.
Period. Polytech., Chem. Eng. (Budapest), **14**, No. 2, 149–156 (1969).
 (ENGLISH). DEPARTMENT PHYSICAL CHEMISTRY, TECHNICAL UNIVERSITY, BUDAPEST, HUNGARY.
- 9982 Moseev, L. I., Blokhin, V. I., Lastov, A. I., Smirnov–Averin, A. P.
Use of alpha particles for the activation determination of oxygen traces in tungsten and molybdenum.
Metody Oprod. Issled. Sostovaniya Gazov Metal., 108–115 (1968).
 (RUSSIAN). RUSSIA.
- 9983 Plaksin, I. N., Kuzmichev, A. P., Mirzaakhmedov, M. K., Starchik, L. P.
Neutron activation determination of manganese in ores and their processing products and the factors affecting the accuracy of the analysis.
Nauch. Soobshch., Inst. Gorn. Dela, Moscow, **47**, 7–14 (1969).
 (RUSSIAN). RUSSIA.
- 9984 Plaksin, I. N., Orifkhodzhaev, U., Starchik, L. P., Tustanovskii, V. T.
Determination of zirconium and cerium in ores by a fast neutron activation method.
Nauch. Soobshch., Inst. Gorn. Dela, Moscow, **47**, 15–17 (1969).
 (RUSSIAN). RUSSIA.
- 9985 Azimov, S. A., Miller, R. A., Khakimov, M.
Evaluation of the sensitivity of a determination of the content of elements during γ -activation analysis.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 70–74 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9986 Azimov, S. A., Miller, R. A., Khakimov, M.
Nomogram method for treating activation analysis data.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 75–91 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9987 Azimov, S. A., Miller, R. A., Khakimov, M.
 γ -activation determination of fluorine content in fluorite ore.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 92–96 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9988 Azimov, S. A., Miller, R. A., Khakimov, M.
Determination of the amount of oxygen and carbon in tungsten.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 104–113 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9989 Azimov, S. A., Miller, R. A., Khakimov, M.
Gamma-activation determination of copper and zinc content in analytically determined deposits.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 114–120 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9990 Azimov, S. A., Miller, R. A., Khakimov, M.
Gamma activation determination of indium content during a study of coprecipitation processes.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 121–125 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.
- 9991 Azimov, S. A., Miller, R. A., Khakimov, M.
Gamma activation determination of nitrogen content in nitro- and nitrogen-modified cellulose.
Nauch. Tr., Tashkent. Gos. Univ., No. 388, 132–135 (1970).
 (RUSSIAN). TASHKENT, GOS. UNIV. IM. LENINA, TASHKENT, USSR.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 9992 Azimov, S. A., Miller, R. A.,
Khakimov, M.
**Gamma activation determination of
carbon and fluorine content
during a study of the synthesis
and copolymerization of
poly(vinyl fluoride).**
Nauch. Tr., Tashkent. Gos. Univ.,
No. 388, 136–140 (1970).
(RUSSIAN). TASHKENT, GOS. UNIV.
IM. LENINA, TASHKENT, USSR.
- 9993 Miller, R. A., Khakimov, M.
 **γ -activation analysis of
multicomponent systems.**
Nauch. Tr., Tashkent. Gos. Univ.,
No. 388, 168–174 (1970).
(RUSSIAN). TASHKENT, GOS. UNIV.
IM. LENINA, TASHKENT, USSR.
- 9994 Glazov, V. M., Korshunov, I. A.
**Spectrometric method for the
activation analysis of selenium
in high purity sulfur.**
Tr. Khim. Khim. Tekhnol., No. 1,
107–112 (1968).
(RUSSIAN). RUSSIA.
- 9995 Leushkina, G. V., Lobanov, E. M.,
Dutov, A. G., Matveeva, N. P.
**Activation analysis of pure
aluminum nitride.**
Tr. Khim. Khim. Tekhnol., No. 3,
106–107 (1969).
(RUSSIAN). RUSSIA.
- 9996 Blinkov, D. I., Lobanov, E. M.
**Activation analysis of pure
titanium and its compounds.**
Tr. Khim. Khim. Tekhnol., No. 3,
108–109 (1969).
(RUSSIAN). RUSSIA.
- 9997 Postelnikov, A. F., Ziv, L. A.,
Kostin, V. L., Kurenko, E. Y.
**Nuclear method for sampling drill
holes and mine facts in nickel
and copper deposits.**
Tr., Tsent. Nauch.-Issled.
Gornorazved. Inst., No. 80, 25–40
(1969).
(RUSSIAN). RUSSIA.
- 9998 Lopatin, A. G.
**Comparative evaluation of methods
for determining the level of gold
in low grade samples.**
Tr., Tsent. Nauch.-Issled.
Gornorazved. Inst., No. 82,
96–108 (1969).
(RUSSIAN). RUSSIA.
- 9999 Potashev, P. I., Gavrilov, I. P.
**Possible use of neutron activation
analysis in non-ferrous
metallurgy in the Urals.**
Tr. Ural. Nauch.-Issled. Proekt.
Inst. Mednoi Prom., No. 11,
327–333 (1969).
(RUSSIAN). RUSSIA.
- 10000 Nikolaenko, O. K., Shtan, A. S.
**Sensitivity of the determination
of oxygen by fast neutron
activation.**
Tr. Vses. Nauch.-Issled. Inst.
Radiats. Tekh., No. 2, 128–135
(1968).
(RUSSIAN). RUSSIA.
- 10001 Gambaryan, R. G., Danilchenko, I.
A.
**Activation determination of copper
in concentrates and copper
pyrometallurgy products by means
of Pu-Be source and coincidence
spectrometry.**
Tr. Vses. Nauch.-Issled. Inst.
Radiats. Tekh., No. 2, 135–144
(1968).
(RUSSIAN). RUSSIA.
- 10002 Kartashev, E. R., Shtan, A. S.
**Continuous determination of the
concentration of cadmium in a
flowing solution by a
neutron-absorption method.**
Tr. Vses. Nauch.-Issled. Inst.
Radiats. Tekh., No. 2, 145–155
(1968).
(RUSSIAN). RUSSIA.
- 10003 Ivanov, I. N., Filippov, V. V.,
Shtan, A. S.
**Calculation of optimum time
conditions in activation
analysis.**
Tr. Vses. Nauch.-Issled. Inst.
Radiats. Tekh., No. 3, 94–99

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(1969).

(RUSSIAN). RUSSIA.

- 10004 Nikolaenko, O. K., Shtan, A. S.
Activation analysis of metals to determine oxygen by using neutron sources with sealed-off tubes.
Tr. Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 3, 193-200 (1969).
 (RUSSIAN). RUSSIA.
- 10005 Kartashev, E. R., Shtan, A. S.
Neutron method for determining the concentration of indium and cadmium in a flowing solution.
Tr. Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 3, 200-206 (1969).
 (RUSSIAN). RUSSIA.
- 10,006 Egorin, Y. G., Kulichenkov, A. A., Mamikonyan, S. V., Mamonov, E. I.
Pneumatic transport apparatus for nuclear activation analysis (review).
Tr. Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 3, 281-299 (1969).
 (RUSSIAN). RUSSIA.
- 10007 Gambaryan, R. G., Gurkov, V. A., Shtan, A. S.
Neutron-selective analysis of the elemental composition of matter.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 144-151 (1970).
 (RUSSIAN). RUSSIA.
- 10008 Gambaryan, R. G., Ivanov, I. N., Filippov, V. V., Shtan, A. S.
Optimization of multiple irradiation conditions in activation analysis.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 151-161 (1970).
 (RUSSIAN). RUSSIA.
- 10009 Nikolaenko, O. K., Shtan, A. S.
Calculation of the effect of self-shielding and self-absorption during an analysis of metals for oxygen by a fast neutron activation method.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 175-182 (1970).
 (RUSSIAN). RUSSIA.
- 10010 Nikolaenko, O. K., Shtan, A. S.
Determination of low oxygen contents in metals by a 14-MeV neutron activation method.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 183-186 (1970).
 (RUSSIAN). RUSSIA.
- 10011 Ivanov, I. N., Markun, N. Y., Shtan, A. S.
Neutron activation analysis of bauxites and nephelines.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 186-193 (1970).
 (RUSSIAN). RUSSIA.
- 10012 Ivanov, I. N., Martishchenko, L. G., Filippov, V. V., Shtan, A. S.
Neutron methods for determining sulfur.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 193-198 (1970).
 (RUSSIAN). RUSSIA.
- 10013 Mamonov, E. I.
Developmental trends for automation in experimental nuclear physics and activation analysis.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 305-314 (1970).
 (RUSSIAN). RUSSIA.
- 10014 Ivanets, V. N., Mamonov, E. I., Plakhov, V. V., Toropov, V. P.
Optimization of the circuitry of spectrometric channels for activation analysis.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 4, 340-344 (1970).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 10015 Kazachenkov, Y. N., Kartashev, E. R., Chulkin, V. L., Shtan, A. S.
Neutron flux attenuation as a consequence of absorption and its effect on the results of neutron activation analysis of solutions.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 5, 59–64 (1970).
 (RUSSIAN). RUSSIA.
- 10016 Ivanov, I. N., Markun, N. Y., Kazachenkov, Y. N., Filippov, V. V., Shtan, A. S.
Principles of the neutron activation analysis of the composition of matter on a conveyor.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 5, 103–110 (1970).
 (RUSSIAN). RUSSIA.
- 10017 Shtan, A. S., Nikolaenko, O. K., Galstyan, I. L., Sidorov, A. V., Filippov, V. V.
Sensitivity of activation analysis using a reaction based on 14 MeV neutrons.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 5, 110–116 (1970).
 (RUSSIAN). RUSSIA.
- 10018 Kartashev, E. R., Shtan, A. S.
Threshold sensitivity of the neutron activation analysis of solutions in flux.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 5, 117–119 (1970).
 (RUSSIAN). RUSSIA.
- 10019 Nikolaenko, O. K., Sidorov, A. V., Shtan, A. S.
Introduction of dead-time corrections for a multi-channel analyzer in an activation analysis based on short-lived isotopes.
Tr., Vses. Nauch.-Issled. Radiats. Tekh., No. 5, 120–128 (1970).
 (RUSSIAN). RUSSIA.
- 10020 Gambaryan, R. G., Gurkov, V. A., Shtan, A. S.
Increase in the selectivity of a determination of iridium and gold content by neutron-resonance activation analysis.
Tr., Vses. Nauch.-Issled. Inst. Radiats. Tekh., No. 5, 129–134 (1970).
 (RUSSIAN). RUSSIA.
- 10021 Gurevich, A. V.
Use of a plasma method for separating elements during neutron activation analysis.
Yad.-Geofiz., Geokhim. Izotop. Metody Geol., 119–122, Alekseev, F. A. (Ed.), Otd. Nauch.-Tekh. Inform., Moscow, USSR (1968).
 (RUSSIAN). RUSSIA.
- 10022 Alexis, M. R.
Use of radioactive tracers in analytical chemistry.
 CEA-N-1419, 66–67 (1970).
 (FRENCH). FRANCE.
- 10023 Hohlein, G.
Californium-252 as a neutron source.
Atomwirt., Atomtech., 15, No. 11, 514–517 (1970).
 (GERMAN). INSTITUT FÜR RADIOCHEMIE, KERNFORSCHUNGSZENTRUM KARLSRUHE, KARLSRUHE, GERMANY.
- 10024 Glukhareva, N. A., Dzhemardyan, Y. A., Mikhailov, G. I., Starchik, L. P.
Determination of carbon content in surface layers of semiconductor silicon.
Fiz. Tekh. Poluprov., 4, No. 10, 2019–2021 (1970).
 (RUSSIAN). RUSSIA.
- 10025 Startsev, Y. S., Kamenev, E. A., Koshelev, I. P., Shvartsman, M. M., Mikheichev, A. S.
Use of activation logging for determination of phosphorus pentoxide in apatite ores of Kola Peninsula.
Razved. Okhr. Nedr., 36, No. 5, 26–29 (1970).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10026 Yakubovich, A. L., Usenkov, V. N., Kotsen, M. E.
Determination of aluminum in rocks by an alpha activation method.
Razved. Okhr. Nedr., **36**, No. 6, 32-35 (1970).
 (RUSSIAN). RUSSIA. No. 4, 917-919 (1971).
 (ENGLISH). ALCOHOL, TOBACCO AND FIREARMS DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 10027 Guinn, V. P., Lukens, H. R., Schlesinger, H. L.
Applications of neutron activation analysis in scientific crime investigation. A comprehensive report covering the six year period, May 1, 1962 through May 31, 1968.
 GA-9807, 263p. (June 30, 1970).
 (ENGLISH). GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIFORNIA. 10032 Brunelle, R. L., Washington, W. D., Hoffman, C. M., Pro, M. J.
Use of neutron activation analysis for the characterization of paper.
J. Assn. Offic. Anal. Chem., **54**, No. 4, 920-924 (1971).
 (ENGLISH). ALCOHOL, TOBACCO AND FIREARMS DIVISION, INTERNAL REVENUE SERVICE, WASHINGTON, D.C.
- 10028 Starchik, L. P., Abbosov, O., Abrams, I. A.
The activation method for the determining of deuterium using linear accelerator.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 2, 10-12 (1971).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AN LATV. SSR. 10033 Fritze, K., Robertson, R.
Neutron activation analysis for aluminum in animal tissue.
J. Radioanal. Chem., **7**, No. 2, 213-220 (1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, MC MASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA.
- 10029 Damburgs, N. A., Pelekis, L. L.
The use of the boron and indium filters in the activation analyses by the reactor neutrons.
Latv. PSR Zinat. Akad. Vestis, Fiz. Teh. Zinat. Ser., No. 2, 3-9 (1971).
 (RUSSIAN) (ENGLISH SUMMARY). INSTITUT FIZIKI AN LATV. SSR. 10034 Qureshi, I. H., Nagi, F.I., Nasra, M., Cheema, M. N.
Simultaneous determination of antimony, arsenic, and copper by neutron activation analysis.
J. Radioanal. Chem., **7**, No. 2, 221-226 (1971).
 (ENGLISH). ATOMIC ENERGY CENTRE, LAHORE, PAKISTAN.
- 10030 Gijbels, R.
Determination of noble metals by neutron activation analysis.
Talanta, **18**, No. 6, 587-601 (1971).
 (ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE OF NUCLEAR CHEMISTRY, STATE UNIVERSITY OF GHENT, BELGIUM. 10035 Heurtebise, M.
Semiautomated determination of iodine in biological fluids by activation analysis.
J. Radioanal. Chem., **7**, No. 2, 227-233 (1971).
 (ENGLISH). SECCION QUIMICA, INSTITUTO VENEZOLANO DE INVESTIGACIONES CIENTIFICAS, CARACAS, VENEZUELA.
- 10031 Snow, K. B., Washington, W. D.
Comparison of paints by neutron activation analysis. II. Colored paints.
J. Assn. Offic. Anal. Chem., **54**, 10036 Seitner, H., Kiesl, W., Kluger, F., Hecht, F.
Wet chemical analysis and determination of trace elements by neutron activation in meteorites.
J. Radioanal. Chem., **7**, No. 2, 235-248 (1971).
 (ENGLISH). ANALYTICAL INSTITUTE

ACTIVATION ANALYSIS—BIBLIOGRAPHY

OF THE UNIVERSITY OF VIENNA,
VIENNA, AUSTRIA.

INSTITUTE OF NON-FERROUS, RARE
AND NOBLE METALS OF THE MINISTRY
OF GEOLOGY OF THE USSR, MOSCOW,
USSR.

- 10037 Ordogh, M., Csath, G., Szabo, E.
**Neutron activation determinations
of impurities in thorium and
zirconium matrices.**
J. Radioanal. Chem., **7**, No. 2,
249–259 (1971).
(ENGLISH). CENTRAL RESEARCH
INSTITUTE FOR PHYSICS, BUDAPEST,
HUNGARY.
- 10038 Santner, E.
**Fast-neutron activation
determination of silicon in
steel.**
J. Radioanal. Chem., **7**, No. 2,
271–280 (1971).
(GERMAN) (ENGLISH SUMMARY).
KERNTECHNIK IN DER MATERIALPRUFUNG
UND STRAHLENSCHUTZ,
BUNDESANSTALT FUR MATERIAL-
PRUFUNG. BERLIN, BRD.
- 10039 Engelmann, C.
**Determination of beryllium, boron,
carbon, nitrogen, oxygen, and
fluorine by p, d, ³He and α
activation. II. Relative
importance of the main nuclear
interferences. Optimal
irradiation conditions.**
J. Radioanal. Chem., **7**, No. 2,
281–298 (1971).
(FRENCH) (ENGLISH SUMMARY).
COMMISSARIAT A L'ENERGIE
ATOMIQUE, CENTRE D'ETUDES
NUCLEAIRES DE SACLAY, DEPARTEMENT
DE PHYSICO-CHIMIE, SERVICE DE
PHYSICO-CHIMIE APPLIQUEE, SACLAY,
FRANCE.
- 10040 Leipunskaya, D. I., Savosin, S.
I., Drynkin, V. I., Aliev, A. I.,
Finkelshtein, Y. A., Popova, N.
N., Zemchikhin, E. S.
**Cupel assay of gold by an
activation method.**
J. Radioanal. Chem., **7**, No. 2,
299–308 (1971).
(ENGLISH). STATE RESEARCH
INSTITUTE OF NUCLEAR GEOPHYSICS
AND GEOCHEMISTRY, AND CENTRAL
MINING AND PROSPECTING RESEARCH
- 10041 Pretorius, R., Schweikert, E. A.
**Alpha activation of calcium and
its possible use for analysis.**
J. Radioanal. Chem., **7**, No. 2,
319–327 (1971).
(ENGLISH). ACTIVATION ANALYSIS
RESEARCH LABORATORY, TEXAS A AND
M UNIVERSITY, COLLEGE STATION,
TEXAS.
- 10042 Adams, F., Dams, R.
**Computer-assisted qualitative
analysis of gamma-ray spectra.**
J. Radioanal. Chem., **7**, No. 2,
329–340 (1971).
(ENGLISH). INSTITUTE OF NUCLEAR
SCIENCES, GHENT UNIVERSITY,
GHENT, BELGIUM.
- 10043 Hayward, C. C., Oldham, G., Ware,
A. R.
**14 MeV neutron activation analysis
applied to a non-aqueous flowing
system.**
J. Radioanal. Chem., **7**, No. 2,
341–346 (1971).
(ENGLISH). THE CHEMISTRY
DEPARTMENT, LOUGHBOROUGH
UNIVERSITY OF TECHNOLOGY,
ENGLAND.
- 10044 Kulus, E., Molnar, F., Szabo, E.
**Concentration and determination of
rare earth impurities in a
yttrium matrix.**
J. Radioanal. Chem., **7**, No. 2,
347–349 (1971).
(ENGLISH). CENTRAL RESEARCH
INSTITUTE FOR PHYSICS, BUDAPEST,
HUNGARY.
- 10045 Mednis, I. V.
**Calculations of induced activity
in the case of intermittent
irradiation.**
J. Radioanal. Chem., **7**, No. 2,
355–363 (1971).
(ENGLISH). INSTITUTE OF PHYSICS
OF THE LATVIAN ACADEMY OF
SCIENCES, RIGA, USSR.

ACTIVATION ANALYSIS - ACCESSION NUMBERS

- 10046 Blake, K. R., Hudspeth, E. L.
Rapid assay for nitrogen in gluten and use of reference nuclides.
Intern. J. Appl. Radiation Isotopes, **22**, 233-241 (April 1971).
 (ENGLISH). TEXAS NUCLEAR CORPORATION, AUSTIN, TEXAS AND DEPARTMENT OF PHYSICS, UNIVERSITY OF TEXAS AT AUSTIN. (ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY AND GREAT LAKES RESEARCH DIVISION, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
- 10047 Engelmann, C., Scherle, A. C.
New method for the rapid non-destructive determination of boron, oxygen, and fluorine by γ -activation and counting of delayed neutrons emitted by ^9Li and ^{17}N .
Intern. J. Appl. Radiation Isotopes, **22**, No. 7, 415-423 (1971).
 (FRENCH) (ENGLISH, RUSSIAN AND GERMAN SUMMARIES). DEPARTMENT DE PHYSICO CHIMIE, SERVICE DE PHYSICO-CHIMIE-APPLIQUEE, GROUPE DE PHYSIQUE ANALYTIQUE, SACLAY, FRANCE.
- 10048 Liebscher, K.
Comparison of physical evidence by means of trace element analysis.
Mikrochim. Acta, No. 2, 272-284 (1971).
 (GERMAN) (ENGLISH SUMMARY). INSTITUT FUR GERICHTSMEDIZIN DER UNIVERSITAT GLASGOW.
- 10049 Schiller, P., Cook, G. B., Beswick, C. K.
Determination of gold by nondestructive activation analysis for geochemical and geobotanical prospecting.
Mikrochim. Acta, No. 3, 420-428 (1971).
 (ENGLISH) (GERMAN SUMMARY). IAEA LABORATORY SEIBERSDORF, AUSTRIA.
- 10050 Rahn, K. A., Dams, R., Robbins, J. A., Winchester, J. W.
Diurnal variations of aerosol trace element concentrations as determined by nondestructive neutron activation analysis.
Atmos. Environ., **5**, No. 6, 413-422 (1971).
- 10051 Hamilton, E. I.
New technique for determining the concentration and distribution of lead in materials.
Nature (London), **231**, No. 5304, 524-525 (1971).
 (ENGLISH). RADIOLOGICAL PROTECTION BOARD, BELMONT, SUTTON, SURREY, ENGLAND.
- 10052 Fedoroff, M.
Systematic analysis of molybdenum by neutron activation.
Ann. Chim. (Paris), **6**, No. 2, 159-171 (1971).
 (FRENCH) (ENGLISH SUMMARY). CENTRE D'ETDUES DE CHIMIE METALLURGIQUE DU C.N.R.S., VITRY-SUR-SEINE, FRANCE.
- 10053 Jinno, K., Yoshikawa, M., Ishii, D.
Non-destructive determination of fluorine with Be-D neutron activation analysis using gold as internal standard.
Kogyo Kagaku Zasshi, **74**, No. 2, 164-167 (1971).
 (JAPANESE) (ENGLISH SUMMARY). FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, NAGOYA, JAPAN.
- 10054 Lutz, G. J., Boreni, R. J., Maddock, R. S., Meinke, W. W.
Activation analysis: A bibliography.
 NBS Technical Note 467, Part 1, 468p., Part 2, 202p. (May 1971).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 10055 Kasymov, A. K., Masagutov, V. S., Daminov, G.
Determination of oxygen content in silicon by means of photonuclear reaction.
Dokl. Akad. Nauk Uzb. SSR, No. 1, 24-25 (1970).

ACTIVATION ANALYSIS – BIBLIOGRAPHY

(RUSSIAN). TASHKENT STATE
UNIVERSITY.

S.M.P.U., CENTRE D'ETUDES
NUCLEAIRES, FONTENAY-AUX-ROSES,
FRANCE.

- 10056 Lobanov, E. M., Nurmatov, D.
Activation analysis for determining the content of Ta and Cs in rocks.
Dokl. Akad. Nauk Uzb. SSR, No. 3, 17–19 (1970).
(RUSSIAN). INSTITUTE OF NUCLEAR PHYSICS, TASHKENT.
- 10057 Kroon, J. J., Das, H. A.
Routine determination of arsenic in biological materials.
RCN–124, 7p. (August 1970).
(ENGLISH). FREE UNIVERSITY, AMSTERDAM AND REACTOR CENTRUM NEDERLAND, PETTEN.
- 10058 Tousset, J.
Radioactive methods applied to trace analysis.
Bull. Soc. Chim. Fr., No. 5, 2023–2026 (1970).
(FRENCH). INSTITUT DE PHYSIQUE NUCLEAIRE, UNIVERSITE DE LYON, VILLEURBANNE, FRANCE.
- 10059 Zmijewska, W.
Activation methods of analysis.
Wiad. Chem., **25**, No. 2, 99–122 (1971).
(POLISH) (ENGLISH SUMMARY). ZAKLADU CHEMII ANALITYCZNEJ INSTYTUTU BADAN JADROWYCH W WARSZAWIE.
- 10060 Das, H. A., De Vries, H. H.
Trace determination of cadmium by neutron activation. Applications to airborne particulates, hair and foodstuffs.
RCN–136, 10p. (February 1971).
(ENGLISH). REACTOR CENTRUM NEDERLAND, PETTEN.
- 10061 Mory, J.
Mean range of fission fragments in some metals with mica as a detector.
Rev. Phys. Appl., **3**, 387–395 (1968).
(FRENCH) (ENGLISH SUMMARY).
- 10062 Marafuschi, A. M., Espanol, C. E.
Applications of activation analysis.
Arch. Bioquim., Quim. Farm., **15**, 243–272 (1969).
(SPANISH). ARGENTINA.
- 10063 Kuin, P. N.
Activation analysis of the impurities in silicon carbide.
Mat. Res. Bull., **4**, S273–S283 (1969).
(ENGLISH). PHILIPS RESEARCH LABORATORIES, N.V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, THE NETHERLANDS.
- 10064 Lada, W., Zelenay, K.
Determination of microamounts of K-42 in the presence of macro-amounts of Na-24.
Nukleonika, **14**, 387–390 (1969).
(POLISH) (RUSSIAN AND ENGLISH SUMMARIES). OSRODEK PRODUKCJI I DYSTRYBUCJI IZOTOPOW, INSTYTUT BADAN JADROWYCH, SWIERK.
- 10065 Murozumi, M., Chow, T. J., Patterson, C. C.
Chemical concentrations of pollutant lead aerosols, terrestrial dusts and sea salts in Greenland and Antarctic snow strata.
Geochim. Cosmochim. Acta, **33**, 1247–1294 (1969).
(ENGLISH). MURORAN INSTITUTE OF TECHNOLOGY, MURORAN, HOKKAIDO, JAPAN, SCRIPPS INSTITUTION OF OCEANOGRAPHY, UNIVERSITY OF CALIFORNIA AT SAN DIEGO AND DIVISION OF GEOLOGICAL SCIENCES, CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA.
- 10066 Carpenter, R.
Factors controlling the marine geochemistry of fluorine.
Geochim. Cosmochim. Acta, **33**, 1153–1167 (1969).
(ENGLISH). DEPARTMENT OF

ACTIVATION ANALYSIS—ACCESSION NUMBERS

CHEMISTRY AND SCRIPPS INSTITUTE
OF OCEANOGRAPHY, LA JOLLA,
CALIFORNIA.

REAKTORILABORATORIO OTANIEMI,
FINLAND.

10067 Hughes, J. D. H., Dewey, M. A. P.,
Briers, G. W.

**Boron autoradiography with the
electron microscope.**

Nature, **223**, 498-499 (August 2,
1969).

(ENGLISH). WANTAGE RESEARCH
LABORATORY (AERE), WANTAGE,
BERKSHIRE, FULMER RESEARCH
INSTITUTE, STROKE POGES,
BUCKINGHAMSHIRE AND AEON
LABORATORIES, BEECH HILL,
ENGLEFIELD GREEN, EGHAM, SURREY,
ENGLAND.

10068 Borisov, G. I., Demidov, A. M.,
Zakharov, E. A.

**Application of spectrometers with
germanium detectors to activation
analysis.**

Soviet Atomic Energy, **26**, No. 1,
16-20 (1969).

(ENGLISH TRANSLATION). RUSSIA.

10069 Alimarin, I. P., Yakovlev, Y. V.

**Nuclear physical methods of
analysis.**

Soviet Atomic Energy, **26**, No. 2,
149-154 (1969).

(ENGLISH TRANSLATION). RUSSIA.

10070 Lucas, H. F., Edgington, D. N.,
Colby, P. J.

**Concentrations of trace elements
in Great Lakes fishes.**

J. Fish. Res. Board Can., **27**,
677-684 (April 1970).

(ENGLISH). RADIOLOGICAL PHYSICS
DIVISION, ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS AND
BUREAU OF COMMERCIAL FISHERIES,
GREAT LAKES FISHERY LABORATORY,
ANN ARBOR, MICHIGAN.

10071 Kuusi, J.

**The use of radioisotopes for
quality and process control
analysis in industry.**

Arkhimedes, No. 1, 16-27 (1970).

(FINNISH) (ENGLISH SUMMARY).
TEKNILLINEN KORKEAKOULU,

10072 Olivier, C., Peisach, M.

**The determination of nickel on
metal surfaces by prompt proton
spectrometry.**

J. S. African Chem. Inst., **23**, No.
2, 77-84 (1970).

(ENGLISH) (AFRIKAAN SUMMARY).
SOUTHERN UNIVERSITIES NUCLEAR
INSTITUTE, FAURE, SOUTH AFRICA.

10073 Ricci, E.

**Activation analysis. Recent
advances by using charged
particles, gamma photons, and
²⁵²Cf sources.**

Energ. Nucl. (Madrid), **14**, No. 66,
303-310 (1970).

(SPANISH). OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

10074 Sellschop, J. P. F., Uken, E. A.,
Steele, T. W.

**Rhythmic-activation analysis.
NIM-987, 7p. (16 July 1970).**

(ENGLISH). NATIONAL INSTITUTE
FOR METALLURGY, JOHANNESBURG,
SOUTH AFRICA.

10075 Sellschop, J. P. F., Uken, E. A.,
Steele, T. W., Wall, G. J.,
Hulse, N. D.

**Automatic timing of the neutron
generator counting station.**

NIM-967, 10p. (7 August 1970).

(ENGLISH). NATIONAL INSTITUTE
FOR METALLURGY, JOHANNESBURG,
SOUTH AFRICA.

10076 Sellschop, J. P. F., Uken, E. A.,
Steele, T. W., Erasmus, C. S.

**The instrumental neutron
activation analysis of samples
taken at different levels of the
E.R.P.M. mine.**

NIM-1013, 9p. (30 September 1970).

(ENGLISH). NATIONAL INSTITUTE
FOR METALLURGY, JOHANNESBURG,
SOUTH AFRICA.

10077 Watterson, J. I. W., Robert, R. V.
D., Van Wyk, E.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- The determination, by neutron activation and tracer techniques of the losses of iridium during the fire-assay procedure for the platinum-group metals.**
NIM-1048, 7p. (3 September 1970).
(ENGLISH). NATIONAL INSTITUTE FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA.
- 10078 Vobecky, M., Frana, J., Bauer, J., Randa, Z., Benada, J., Kuncir, J.
Progress report of Apollo 11 and Apollo 12 lunar samples investigation.
UJV-2528, 29p. (November 1970).
(ENGLISH). NUCLEAR RESEARCH INSTITUTE, REZ, INSTITUTE OF CHEMICAL TECHNOLOGY, PRAGUE AND INSTITUTE OF MINERAL RAW MATERIALS, KUTNA HORA, CZECHOSLOVAKIA.
- 10079 Fisher, D. E.
Homogenized fission track determination of uranium in whole rock geologic samples.
Anal. Chem., **42**, 414–416 (1970).
(ENGLISH). ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES, UNIVERSITY OF MIAMI, MIAMI, FLORIDA.
- 10080 Babaev, A., Khaidarov, A.
Determination of bismuth in some minerals by activation analysis.
Dokl. Akad. Nauk Tadzh. SSR, **13**, No. 11, 21–22 (1970).
(RUSSIAN). FIZIKO-TEKHNICHESKII INSTITUT IM. S.U. UMAROVA, AN TADZHIKSKOII SSR.
- 10081 Janczyszyn, J., Loska, L.
A simple formula to the calculation of the fast neutron flux in the vicinity of the neutron generator target.
Radiochem. Radioanal. Letters, **3**, No. 4, 343–348 (1970).
(ENGLISH). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, CRACOW, POLAND.
- 10082 Eschard, G.
Neutron generators. I.
Acta Electron., **13**, No. 4, 293–315 (1970).
(FRENCH AND ENGLISH). LABORATOIRES D'ELECTRONIQUE ET DE PHYSIQUE APPLIQUEE, FRANCE.
- 10083 Boudin, A., Deutsch, S., Hanappe, F., Vosters, M.
Trace analysis of a few elements by neutron activation: Comparison with atomic absorption and isotope dilution.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 13–21, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
(ENGLISH). SERVICE DE GEOLOGIE ET GEOCHIMIE NUCLEAIRES, UNIVERSITE LIBRE DE BRUXELLES, BELGIQUE.
- 10084 Feldt, W.
Application of the neutron activation analysis in the radioecology.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 25–39, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
(ENGLISH). GERMAN FEDERAL BOARD OF FISHERIES RESEARCH, ISOTOPE LABORATORY, HAMBURG.
- 10085 Fukai, R.
On the pre-treatment of sea-water samples for the activation analysis of some trace elements.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 41–57, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
(ENGLISH). INTERNATIONAL LABORATORY OF MARINE RADIOACTIVITY, MONACO.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10086 Girardi, F.
The activation analysis laboratory of the Joint Nuclear Research Center of the European Community at Ispra, Italy, and its potential in oceanographic research.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 59–70, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
 (ENGLISH). CHEMISTRY DEPARTMENT, C.C.R. ISPRA, VARESE, ITALY.
- 10087 Merlini, M.
Trace element analysis of aquatic organisms.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 75–101, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
 (ENGLISH). EURATOM JOINT RESEARCH CENTER, ISPRA, ITALY.
- 10088 Lacroix, R.
A fine structure analysis of trace elements in sea water samples: Multiparametric spectrometry after thermic neutron activation.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 103–116, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
 (ENGLISH). I.R.S.N.B. LABORATOIRE D'OCEANOGRAPHIE PHYSIQUE.
- 10089 Preston, A., Dutton, J. W. R.
The application of neutron activation analysis to the study of trace elements in United Kingdom Coastal Waters.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 117–142, Bruxelles, Institut Royal des Sciences
- Naturelles de Belgique (1968).
 (ENGLISH). FISHERIES RADIOBIOLOGICAL LABORATORY, MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, LOWESTOFT.
- 10090 Robertson, D. E., Rancitelli, L. A., Perkins, R. W.
Multielement analysis of seawater, marine organisms and sediments by neutron activation without chemical separations.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 143–212, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
 (ENGLISH). BATTELLE NORTHWEST, RICHLAND, WASHINGTON.
- 10091 Pagden, I. M. H.
Some programmes for the resolution of gamma ray spectra into their components.
International Symposium on the Application of Neutron Activation Analysis in Oceanography, Brussels, Belgium, 17–22 June 1968, 213–218, Bruxelles, Institut Royal des Sciences Naturelles de Belgique (1968).
 (ENGLISH). BEDFORD INSTITUTE OF OCEANOGRAPHY, CANADA.
- 10092 Ganapathy, R., Keays, R. R., Laul, J. C., Anders, E.
Trace elements in Apollo 11 lunar rocks: Implications for meteorite influx and origin of moon.
Proceedings Apollo 11 Lunar Science Conference, 2, 1117–1142, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). ENRICO FERMI INSTITUTE AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.
- 10093 Haskin, L. A., Allen, R. O., Helmke, P. A., Paster, T. P., Anderson, M. R., Korotev, R. L., Zweifel, K. A.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- Rare earths and other trace elements in Apollo 11 lunar samples.**
Proceedings Apollo 11 Lunar Science Conference, 2, 1213–1231, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN.
- 10094 Herr, W., Herpers, U., Hess, B., Skerra, B., Wolfle, R.
Determination of manganese-53 by neutron activation and other miscellaneous studies on lunar dust.
Proceedings Apollo 11 Lunar Science Conference, 2, 1233–1238, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). INSTITUT FÜR KERNCHEMIE DER UNIVERSITÄT KÖLN, KÖLN, GERMANY AND INSTITUT FÜR RADIOCHEMIE DER KERNFORSCHUNGSANLAGE JÜLICH, GERMANY.
- 10095 Lovering, J. F., Butterfield, D.
Neutron activation analysis of rhenium and osmium in Apollo 11 lunar material.
Proceedings Apollo 11 Lunar Science Conference, 2, 1351–1355, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). DEPARTMENT OF GEOPHYSICS AND GEOCHEMISTRY, AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA.
- 10096 Morrison, G. H., Gerard, J. T., Kashuba, A. T., Gangadharam, E. V., Rothenberg, A. M., Potter, N. M., Miller, G. B.
Elemental abundances of lunar soil and rocks.
Proceedings Apollo 11 Lunar Science Conference, 2, 1383–1392, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, CORNELL UNIVERSITY, ITHACA, NEW YORK.
- 10097 Reed, G. W., Jovanovic, S.
Halogens, mercury, lithium, and osmium in Apollo 11 samples.
Proceedings Apollo 11 Lunar Science Conference, 2, 1487–1492, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 10098 Smales, A. A., Mapper, D., Webb, M. S. W., Webster, R. K., Wilson, J. D.
Elemental composition of lunar surface material.
Proceedings Apollo 11 Lunar Science Conference, 2, 1575–1581, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). ANALYTICAL SCIENCES DIVISION, ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND.
- 10099 Turekian, K. K., Kharkar, D. P.
Neutron activation analysis of milligram quantities of Apollo 11 lunar rocks and soil.
Proceedings Apollo 11 Lunar Science Conference, 2, 1659–1664, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). DEPARTMENT OF GEOLOGY AND GEOPHYSICS, YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.
- 10100 Wakita, H., Schmitt, R. A., Rey, P.
Elemental abundances of major, minor and trace elements in Apollo 11 lunar rocks, soil and core samples.
Proceedings Apollo 11 Lunar Science Conference, 2, 1685–1717, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).
 (ENGLISH). DEPARTMENT OF CHEMISTRY AND THE RADIATION CENTER, OREGON STATE UNIVERSITY, CORVALLIS, OREGON.
- 10101 Wanke, H., Rieder, R., Baddenhausen, H., Spettel, B., Teschke, F., Quijano-Rico, M., Balacescu, A.
Major and trace elements in lunar material.

ACTIVATION ANALYSIS – ACCESSION NUMBERS

Proceedings Apollo 11 Lunar Science Conference, 2, 1719–1727, Levinson, A.A. (Ed.), Pergamon, New York, N.Y. (1970).

(ENGLISH). MAX-PLANCK-INSTITUT FÜR CHEMIE (OTTO-HAHN-INSTITUT), MAINZ, GERMANY.

INSTITUTE OF STEEL AND ALLOYS, INSTITUTE OF METALLOGRAPHY AND MATERIALS TESTING, FRIEBERG MINING ACADEMY, EAST GERMANY.

10102 Miskovits, G., Orban, E., Dubay, M., Appel, J., Ordogh, M., Szabo, E.

Comparative determination of silicon in lymph nodes by neutron activation and spectrophotometry.

Acta Morphol. Acad. Sci. Hung., 18, No. 1, 73–78 (1970).

(ENGLISH) (GERMAN AND RUSSIAN SUMMARIES). UNIVERSITY MEDICAL SCHOOL, DEPARTMENT OF PNEUMOLOGY AND INSTITUTE OF CHEMICAL RESEARCH, CENTRAL RESEARCH INSTITUTE, BUDAPEST, HUNGARY.

10106 Anong Nilubol, M. L., Propai, S. T., Chamniroksarnt, D.

Soil analysis by neutron activation method.

THAI-AEC-36, 15p. (December 1970).

(ENGLISH). CHEMISTRY DIVISION, OFFICE OF THE ATOMIC ENERGY FOR PEACE, BANGKOK, THAILAND.

10107 Siri-Upatham, C.

Inorganic elements in human stones: A preliminary study using neutron activation technique.

THAI-AEC-39, 15p. (December 1970).

(ENGLISH). DIVISION OF CHEMISTRY, OFFICE OF ATOMIC ENERGY FOR PEACE, BANGKOK, THAILAND.

10103 Gordus, A. A.

Neutron activation analysis of archaeological artefacts.

Phil. Trans. Roy. Soc. London, Ser. A, 269, 165–174 (17 December 1970).

(ENGLISH). DEPARTMENT OF CHEMISTRY, THE UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

10108 Kubota, M., Amano, H.

Impurities in processed radioisotopes produced by the (n,γ) reaction: Purity of ¹⁶⁹Yb. JAERI-Memo-4279, 15p. (January 1971).

(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.

10104 Tasovac, T., Draskovic, R.,

Radosavljevic, R., Filip, A., Vukmirovic, V., Radojic, M., Vukotic, R.

Nuclear techniques in studies of dispersion and some other properties of the Danube.

Isotope Hydrology, 497–507, Vienna, International Atomic Energy Agency (1970).

(ENGLISH). BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES AND JAROSLAV CERNI INSTITUTE FOR DEVELOPMENT OF WATER RESOURCES, BELGRADE, YUGOSLAVIA.

10109 Kubota, M., Amano, H.

Impurities in processed radioisotopes produced by the (n,γ) reaction: Purity of ¹⁶⁰Tb. JAERI-Memo-4280, 16p. (January 1971).

(JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKYO, JAPAN.

10105 Pshenichnov, Y. P., Jurisch, M.

Preparation of microautoradiograms from irradiated aluminum.

Industrial Laboratory, 36, No. 8, 1209–1211 (1970).

(ENGLISH TRANSLATION). MOSCOW

10110 Steinnes, E.

Instrumental neutron activation analysis of zircaloy using a Ge(Li) detector.

KR-142, 11p. (February 1971).

(ENGLISH). INSTITUTT FOR ATOMENERGI, KJELLER RESEARCH ESTABLISHMENT, KJELLER, NORWAY.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 10111 Rahalkar, G. W., Mistry, K. B., Harwalkar, M. R., Bharathan, K. G., Gopal-Ayengar, A. R.
Labeling adults of red palm weevil (*rhynchophorus ferrugineus*) with cerium for detection by neutron activation.
Ecology, **52**, 186-188 (Winter 1971).
 (ENGLISH). BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY, INDIA.
- 10112 Sutton, A., Harrison, G. E., Carr, T. E. F., Barltrop, D.
Reduction in the absorption of dietary strontium in children by an alginate derivative.
Intern. J. Radiat. Biol., **19**, 79-85 (1971).
 (ENGLISH) (FRENCH AND GERMAN SUMMARIES). MEDICAL RESEARCH COUNCIL, RADIOBIOLOGY UNIT, HARWELL, BERKSHIRE AND PEDIATRIC UNIT, ST. MARY'S HOSPITAL MEDICAL SCHOOL, LONDON, ENGLAND.
- 10113 Nagy, A. Z., Csoke, A., Szabo, E.
Two-dimensional (T, E_γ) mapping of short-lived nuclides.
J. Radioanal. Chem., **7**, No. 2, 365-381 (1971).
 (ENGLISH). CENTRAL RESEARCH INSTITUTE FOR PHYSICS, BUDAPEST, HUNGARY.
- 10114 Murrmann, R. P., Winters, R. W., Martin, T. G.
Gamma-ray spectra of resonance neutron irradiated earth materials.
 AD-714220, 34p. (August 1970).
 (ENGLISH). COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, NEW HAMPSHIRE.
- 10115 Campbell, F. T., Steele, E. L.
Determination of tellurium by instrumental photon activation analysis.
Analytical Letters, **4**, No. 7, 445-450 (1971).
 (ENGLISH). NUCLEAR SCIENCE CENTER, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LOUISIANA.
- 10116 Jenkins, R. W., Newman, R. H., Ikeda, R. M., Carpenter, R. D., Williamson, T. G.
The determination by neutron activation analysis of selected elements in cigarettes.
Analytical Letters, **4**, No. 7, 451-457 (1971).
 (ENGLISH). PHILIP MORRIS RESEARCH CENTER, RICHMOND, VIRGINIA AND DEPARTMENT OF NUCLEAR ENGINEERING, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA.
- 10117 Larrabee, G. B., Keenan, J. A.
Neutron activation analysis of epitaxial silicon.
J. Electrochem. Society, **118**, No. 8, 1351-1355 (1971).
 (ENGLISH). TEXAS INSTRUMENTS INC., CENTRAL RESEARCH LABORATORIES, DALLAS, TEXAS.
- 10118 Mayer, W. A.
Activation analysis of vanadium in mineral oil.
Erdol Kohle, Erdgas, Petrochem., **24**, No. 6, 416-417 (1971).
 (GERMAN) (ENGLISH SUMMARY). AEG ALLGEMEINE ELEKTRICITÄTSGESELLSCHAFT AEG-TELEFUNKEN, FACHBEREICH KERNREAKTOREN, GROSSELZHEIM, GERMANY.
- 10119 Rottschafer, J. M., Jones, J. D., Mark, H. B.
A simple, rapid method for determining trace mercury in fish via neutron activation analysis.
Environ. Science Technology, **5**, 336-338 (April 1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MICHIGAN, PHOENIX MEMORIAL LABORATORY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN, AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO.
- 10120 Martz, F. A., Asay, K. H., Leddicotte, G. W., Krause, G., Daniels, L. B.
Activation analysis of gold-197 for measuring rate of ingesta

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- passage in ruminants.**
J. Dairy Science, **54**, No. 6,
 926-928 (1971).
 (ENGLISH). UNIVERSITY OF
 MISSOURI, COLUMBIA, MISSOURI.
- 10121 Livingston, H. D.
**Determination of tissue calcium
 by nondestructive neutron
 activation analysis.**
Clin. Chem., **17**, No. 7, 602-606
 (1971).
 (ENGLISH). BOWMAN GRAY SCHOOL OF
 MEDICINE, WAKE FOREST UNIVERSITY,
 WINSTON-SALEM, N.C.
- 10122 Henke, G., Fitzek, A.
**Detection of thallium poisonings
 by means of neutron activation
 analysis.**
Arch. Toxikol., **27**, 266-272
 (1971).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FUR PHARMAZEUTISCHE
 CHEMIE DER WESTFALISCHEN,
 WILHELMS-UNIVERSITAT MUNSTER,
 GERMANY.
- 10123 Henke, G., Mollmann, H., Alfes, H.
**Comparative investigations of the
 concentrations of some trace
 elements in particular areas of
 the human brain by neutron
 activation analysis.**
Z. Neurol., **199**, 283-294 (1971).
 (GERMAN) (ENGLISH SUMMARY).
 INSTITUT FUR PHARMAZEUTISCHE
 CHEMIE UND ANATOMISCHES INSTITUT
 DER UNIVERSITAT MUNSTER, GERMANY.
- 10124 Henke, G., Mollmann, H., Althoff,
 W.
**On the use of neutron activation
 analysis in diagnosis and
 subsequent control of Morbus
 Wilson.**
Klin. Wochensch., **49**, 284-286 (1
 March 1971).
 (GERMAN) (ENGLISH SUMMARY).
 ANATOMISCHES INSTITUT, INSTITUT
 FUR PHARMAZEUTISCHE CHEMIE UND
 KINDERKLINIK DER WESTFALISCHEN
 WILHELMS UNIVERSITAT, MUNSTER,
 GERMANY.
- 10125 Glomski, C. A., Pillay, K. K. S.,
 Hagle, R. E.
**Survival of ⁵⁰Cr labeled
 erythrocytes as studied by
 instrumental activation analysis.**
J. Nucl. Med., **12**, 31-34 (January
 1971).
 (ENGLISH). STATE UNIVERSITY OF
 NEW YORK AT BUFFALO AND WESTERN
 NEW YORK NUCLEAR RESEARCH CENTER.
- 10126 Nagy, A. Z., Csoke, A., Szabo, E.,
 Vorsatz, B., Cseh, S., Saly, S.
**A method for the determination of
 additive elements in sintered
 tungsten metal rods by fast
 neutron activation analysis.**
 KFKI-71-26, 19p. (1971).
 (ENGLISH) (RUSSIAN SUMMARY).
 CENTRAL RESEARCH INSTITUTE FOR
 PHYSICS AND UNITED INCANDESCENT
 LAMP AND ELECTRICAL COMPANY LTD.,
 BUDAPEST, HUNGARY.
- 10127 Holmes, A., Morgan, A., Sandalls,
 F. J.
**Determination of iron, chromium,
 cobalt, nickel, and scandium in
 asbestos by neutron activation
 analysis.**
Amer. Ind. Hyg. Assn. J., **32**, No.
 5, 281-286 (1971).
 (ENGLISH). HEALTH PHYSICS AND
 MEDICAL DIVISION, ATOMIC ENERGY
 RESEARCH ESTABLISHMENT, HARWELL,
 BERKSHIRE, ENGLAND.
- 10128 Schmolzer, G., Muller, K.
**Determination of triiodothyronine
 and thyroxine in blood serum by
 activation analysis.**
*Intern. J. Appl. Radiation
 Isotopes*, **22**, No. 8, 509-510
 (1971).
 (GERMAN). INSTITUT FUR
 ALLGEMEINE CHEMIE, MIKRO- UND
 RADIOCHEMIE DER TECHNISCHEN
 HOCHSCHULE, GRAZ, AUSTRIA.
- 10129 Mikhailik, E., Kostsyuk, B.,
 Kominek, Y., Radwan, M.
**Activation analysis study of the
 transfer of nonmetallic
 inclusions from the lining of the
 steel pouring ladle into ball
 bearing steel.**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Izv. Vyssh. Ucheb. Zaved., Chern. Met., **14**, No. 5, 53–56 (1971).
(RUSSIAN). POLAND.

10130 Environmental Research

Hazards of mercury.

Environ. Res., **4**, No. 1, 1–69

(March 1971).

(ENGLISH). USA.

10131 Faure–Mazagol, L.

Determination by charged particle activation of oxygen in molybdenum, lead and lead antimonide.

LYCEN–7136, 55p. (June 1971).

(FRENCH). UNIVERSITE DE LYON, INSTITUT DE PHYSIQUE NUCLEAIRE, VILLEURBANNE, FRANCE.

10132 Radosavljevic, R., Tasovac, T., Draskovic, R., Zaric, M., Markovic, V.

Complex behaviour of cobalt in the Danube River.

IBK–1043 (Preprint of paper to be presented at 14. Arbeitstagung der Internationalen Arbeitsgemeinschaft Donauforschung 13–19 September 1971 in Osterreich), 12p. (August 1971).

(ENGLISH) (GERMAN SUMMARY). RADIATION PROTECTION DEPARTMENT, BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES, VINCA, YUGOSLAVIA.

10133 Slavic, I., Draskovic, R.,

Tasovac, T., Radosavljevic, R.

A computer – programme for determination of concentrations of trace elements in components of the Danube River by nondestructive activation analysis.

Preprint of Paper to be Presented at 14. Arbeitstagung der Internationalen Arbeitsgemeinschaft Donauforschung 13–19 September 1971 in Osterreich, 14p. (1971).

(GERMAN) (FRENCH AND ENGLISH SUMMARIES). BORIS KIDRIC INSTITUTE OF NUCLEAR SCIENCES, VINCA, YUGOSLAVIA.

10134 Goles, G. G., Anders, E.

Iodine content of meteorites and their I^{129} – Xe^{129} ages.

J. Geophysical Research, **65**, No. 12, 4181–4184 (December 1960).

(ENGLISH). ENRICO FERMI INSTITUTE FOR NUCLEAR STUDIES AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS.

10135 Schmitt, R. A., Smith, R. H., Goles, G. G.

Abundances of Na, Sc, Cr, Mn, Fe, Co, and Cu in 218 individual meteoritic chondrules via activation analysis, 1.

J. Geophysical Research, **70**, No. 10, 2419–2444 (May 15, 1965).

(ENGLISH). GENERAL ATOMIC DIVISION OF GENERAL DYNAMICS CORPORATION, SAN DIEGO, CALIFORNIA AND UNIVERSITY OF CALIFORNIA AT SAN DIEGO, LA JOLLA, CALIFORNIA.

10136 Greenland, L. P., Goles, G. G.

Copper and zinc abundances in chondritic meteorites.

Geochim. Cosmochim. Acta, **29**, 1285–1292 (1965).

(ENGLISH). UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIFORNIA.

10137 Stueber, A. M., Goles, G. G.

Abundances of Na, Mn, Cr, Sc and Co in ultramafic rocks.

Geochim. Cosmochim. Acta, **31**, 75–93 (1967).

(ENGLISH). DEPARTMENT OF EARTH SCIENCES, UNIVERSITY OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIFORNIA.

10138 Bowen, H. J. M.

Use of sodium and potassium nitrates for decomposing organic samples for elementary analysis.

Anal. Chem., **40**, No. 4, 969–970 (May 1968).

(ENGLISH). CHEMISTRY DEPARTMENT, READING UNIVERSITY, READING, BERKS, ENGLAND.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10139 Aldcroft, D., Bye, G. C., Hughes, C. A.
Crystallisation processes in aluminium hydroxide gels. Part 4. Factors influencing the formation of the crystalline trihydroxides.
J. Appl. Chem., **19**, 167–172 (1969).
 (ENGLISH). DEPARTMENT OF CERAMICS WITH REFRACTORIES TECHNOLOGY, UNIVERSITY OF SHEFFIELD AND DEPARTMENT OF CHEMISTRY, COLLEGE OF TECHNOLOGY, LIVERPOOL, ENGLAND.
- 10139 Aldcroft, D., Bye, G. C., Hughes, C. A.
Earth Planetary Science Letters, **6**, 316–320 (1969).
 (ENGLISH). CHEMISTRY DIVISION, ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 10140 Untermeyer, S.
Applications of nondestructive fuel assay.
Trans. Amer. Nucl. Soc., **12**, 439–440 (1969).
 (ENGLISH). NATIONAL NUCLEAR.
- 10140 Untermeyer, S.
Uranium measurements in hypersthene chondrites and their relation to the 600–700 million year "event".
Earth Planetary Science Letters, **7**, 278–280 (1969).
 (ENGLISH). INSTITUTE OF MARINE SCIENCES, MIAMI, FLORIDA.
- 10141 Gosling, A. W., Jenne, E. A., Chao, T. T.
Gold content of natural waters in Colorado.
Econ. Geol., **66**, 309–313 (March–April 1971).
 (ENGLISH). U.S. GEOLOGICAL SURVEY, HELENA, MONTANA, MENLO PARK, CALIFORNIA AND DENVER, COLORADO.
- 10141 Gosling, A. W., Jenne, E. A., Chao, T. T.
Interpretation of results obtained by activation analysis.
J. Forensic Sci. Soc., **9**, 205–209 (December 1969).
 (ENGLISH). DEPARTMENT OF FORENSIC MEDICINE, THE UNIVERSITY OF GLASGOW, SCOTLAND.
- 10142 Luyendyk, B. P., Fisher, D. E.
Fission trace age of magnetic anomaly 10: A new point on the sea–floor spreading curve.
Science, **164**, 1516–1517 (1969).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, SAN DIEGO, SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA, AND UNIVERSITY OF MIAMI, INSTITUTE OF MARINE SCIENCES, MIAMI, FLORIDA.
- 10142 Luyendyk, B. P., Fisher, D. E.
Activation analysis at the Institute of Applied Geophysics, Brno.
Geol. Pruzkum, **11**, 106–108 (April 1969).
 (CZECHOSLOVAKIAN). INSTITUTE OF GEOPHYSICS, BRNO.
- 10143 Eckhoff, N. D.
CORGAM.
Nucl. Sci. Eng., **35**, 157 (1969).
 (ENGLISH). DEPARTMENT OF NUCLEAR ENGINEERING, KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS.
- 10143 Eckhoff, N. D.
Theory of the photoneutron determination of beryllium in natural deposits.
Vop. Razved. Geofiz., No. 11, 82–85 (1969).
 (RUSSIAN). RUSSIA.
- 10144 Reed, G. W., Jovanovic, S.
Some halogen measurements on achondrites.
- 10144 Reed, G. W., Jovanovic, S.
Selection of measurement conditions during activation logging of fluorine.
Vop. Razved. Geofiz., No. 11, 102–106 (1969).
 (RUSSIAN). RUSSIA.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 10150 Koshelev, I. P., Belenko, R. D., Krasnoperov, V. A., Shepelev, G. I., Shishakin, O. V.
Application of activation logging to phosphorite deposits of the Malyi Kara-Tau.
Vop. Razved. Geofiz., No. 11, 107-111 (1969).
 (RUSSIAN). RUSSIA.
- 10151 Koshelev, I. P., Belenko, R. D., Shepelev, G. I., Shishakin, O. V., Krasnoperov, V. A.
Activation analysis of calcium in boreholes.
Vop. Razved. Geofiz., No. 11, 112-116 (1969).
 (RUSSIAN). RUSSIA.
- 10152 Schicha, H., Feinendegen, L. E., Kasperek, K., Klein, H. J., Siller, V.
Non-homogeneous but parallel distribution of essential trace elements in multiple adjacent samples of single livers, measured by neutron activation analysis.
Beitr. Pathol., **141**, 227-232 (1970).
 (ENGLISH). INSTITUTE OF MEDICINE, KERNFORSCHUNGSANLAGE JULICH GMBH, W. GERMANY, AND PATHOLOGICAL INSTITUTE, UNIVERSITY OF COLOGNE, W. GERMANY.
- 10153 Martinelli, P.
Radioactive analysis techniques.
Tech. Mod., **62**, 424-427 (October 1970).
 (FRENCH). SECTION D'APPLICATION DES RADIOELEMENTS, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, FRANCE.
- 10154 Paap, H. J., Scott, H. D.
The use of Cf²⁵² as a neutron source for well logging.
American Institute of Chemical Engineers, Nuclear Engineering, **66**, Part 22, 88-90 (1970).
 (ENGLISH). TEXACO, INC., BELLAIRE, TEXAS.
- 10155 Daiev, K., Georgiev, G., Iovchev, M., Stefanov, G., Apostolov, D.
Cupellation method for ruthenium and indium isolation.
Isotopenpraxis, **7**, No. 4, 138-141 (1971).
 (GERMAN). CHEMISCHE FAKULTAT DER UNIVERSITAT KL. OCHRIDSKI, PHYSIKALISCHES UND GEOLOGISCHES INSTIUT DER BAW.
- 10156 Mamuro, T., Matsuda, Y., Mizohata, A., Takeuchi, T., Fujita, A.
Activation analysis of polluted river water.
Radioisotopes (Tokyo), **20**, 111-116 (March 1971).
 (JAPANESE) (ENGLISH SUMMARY). RADIATION CENTER OF OSAKA PREFECTURE, OSAKA, JAPAN.
- 10157 Mamuro, T., Matsuda, Y., Mizohata, A., Takeuchi, T., Fujita, A.
Activation analysis of airborne dust.
Radioisotopes (Tokyo), **20**, 117-123 (March 1971).
 (JAPANESE) (ENGLISH SUMMARY). RADIATION CENTER OF OSAKA PREFECTURE, OSAKA, JAPAN.
- 10158 Tajima, E., Akaiwa, H.
Simultaneous determination of chlorine, bromine, and iodine in sedimentary rocks by neutron activation.
Radioisotopes (Tokyo), **20**, 165-170 (April 1971).
 (JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF APPLIED CHEMISTRY, FACULTY OF TECHNOLOGY, GUNMA UNIVERSITY.
- 10159 Grass, F., Kittl, R.
Quantitative determination of rare earths in meteorites by means of high voltage electrophoresis.
Mikrochim. Acta, No. 2, 371-379 (1971).
 (GERMAN) (ENGLISH SUMMARY). ATOMINSTITUT DER OSTERREICHISCHEN HOCHSCHULEN UND ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.
- 10160 Fawcett, P., Green, D., Shaw, G.
The determination of trace

ACTIVATION ANALYSIS—ACCESSION NUMBERS

elements in pollen and sporopollenin using neutron activation analysis.

Radiochem. Radioanal. Letters, **8**, No. 1, 37–40 (September 25, 1971).

(ENGLISH). DEPARTMENT OF ORGANIC CHEMISTRY, UNIVERSITY OF BRADFORD, BRADFORD, ENGLAND.

10165 Rasmussen, N. C.

The analysis of coal using a ^{252}Cf source.

Trans. Amer. Nucl. Soc., **14**, No. 2, 931 (2 October 1971).

(ENGLISH). MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS.

10161 Whitley, J. E., Muir, C.

Determination of sodium in newt egg cell nuclei by activation analysis.

Radiochem. Radioanal. Letters, **8**, No. 1, 53–57 (September 25, 1971).

(ENGLISH). SCOTTISH RESEARCH REACTOR CENTRE, EAST KILBRIDE, GLASGOW AND DEPARTMENT OF ZOOLOGY, THE UNIVERSITY, ST. ANDREWS, ENGLAND.

10166 Duffey, D.

Element sensitivities for analysis by thermal-neutron capture gamma rays.

Trans. Amer. Nucl. Soc., **14**, No. 2, 931–932 (2 October 1971).

(ENGLISH). UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.

10162 Gage, S. J., Atkinson, G. D.,
Bouchev, G. D.

Cyclic neutron activation analysis with a ^{252}Cf neutron source.

Trans. Amer. Nucl. Soc., **14**, No. 2, 513–515 (2 October 1971).

(ENGLISH). UNIVERSITY OF TEXAS, AUSTIN, TEXAS.

10167 Greenwood, R. C.

Prompt neutron activation analysis with a ^{252}Cf source.

Trans. Amer. Nucl. Soc., **14**, No. 2, 932 (2 October 1971).

(ENGLISH). IDAHO NUCLEAR CORPORATION, IDAHO FALLS, IDAHO.

10163 Wiggins, P. F., Duffey, D.,
Senftle, F. E.

Neutron capture gamma-ray studies of metallurgical and mineral samples using ^{252}Cf .

Trans. Amer. Nucl. Soc., **14**, No. 2, 518–520 (2 October 1971).

(ENGLISH). U.S. NAVAL ACADEMY, ANNAPOLIS, MARYLAND, UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND AND U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.

10168 Trombka, J. I., Eller, E. L.,
Gerard, J. T., Senftle, F. E.,
Philbin, P. W.

Neutron radioactive capture methods for elemental analysis on extended media.

Trans. Amer. Nucl. Soc., **14**, No. 2, 932–933 (2 October 1971).

(ENGLISH). NASA-GODDARD AND U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.

10164 Roche, M. F., Ross, L. E., Meyer,
R. J.

Determination of oxygen in liquid sodium by proton activation analysis.

Trans. Amer. Nucl. Soc., **14**, No. 2, 617 (2 October 1971).

(ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.

10169 Anoshin, G. N., Emelyanov, E. M.

Gold in magmatic rocks of the Atlantic Ocean (radioactivation analysis data).

Dokl. Akad. Nauk SSSR, **189**, No. 5, 1107–1110 (1969).

(RUSSIAN). INSTITUT GEOLOGII I GEOFIZIKI, NOVOSIBIRSK, RUSSIA.

10170 Das, H. A.

Application of activation analysis to the problem of air pollution.

Chem. Weekblad, **65**, No. 30, 7–8 (1969).

(DUTCH). NETHERLANDS.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 10171 Vakhidov, S. A., Gasanov, E. M.,
Khatamov, S.
**Topography of the distribution of
impurities in a quartz crystal
studied by radioactivation
analysis.**
*Izv. Akad. Nauk Uzb. SSR, Ser.
Fiz.-Mat. Nauk*, **14**, No. 5, 77-80
(1970).
(RUSSIAN). INSTITUT YADERNOI
FIZIKI, TASHKENT, RUSSIA. AERE-PR/HPM-12, 36 (February
1968).
(ENGLISH). KING'S COLLEGE
HOSPITAL AND MEDICAL SCHOOL.
- 10172 Csath, G., Ordogh, M., Szabo, E.
**Determination of impurities in
thorium and zirconium compounds
by neutron activation analysis.**
*KFKI (Kozp. Fiz. Kut. Intez.)
Kozlem.*, **18**, No. 4-6, 139-152
(1970).
(HUNGARIAN). HUNGARY. 10177 Girton, R. C., Scott, J. G.
**Determination of cobalt-60m by
activation analysis.**
IN-1203, 40p. (September 1968).
(ENGLISH). IDAHO NUCLEAR
CORPORATION, IDAHO FALLS, IDAHO.
- 10173 Rhodes, J. R.
**Use of radioisotopes for in-plant
process control.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 50 (June 1971).
(ENGLISH). COLUMBIA SCIENTIFIC
IND. 10178 De Goeij, J. J. M.
**Investigation of chrome-sensibility
with the help of activation
analysis in tracer technique.**
RI-133-68-15 (CONF-681037-1), 12p
(1968).
(DUTCH). REACTOR INSTITUT DELFT,
NETHERLANDS.
- 10174 Guinn, V. P.
**Nuclear applications in scientific
crime investigation.**
Trans. Amer. Nucl. Soc., **14**, No.
1, 51-52 (June 1971).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, IRVINE, CALIFORNIA. 10179 Denechaud, E. B.
**Rare-earth activation analysis:
Improvement and application to
Stretishorn Dike and Duluth
complex.**
Thesis. University of Wisconsin,
159p. (1969).
(ENGLISH). UNIVERSITY OF
WISCONSIN, MADISON, WISCONSIN.
- 10175 Bereznai, T., Elek, A., Szabo, E.,
Szarvas, P.
**Non-destructive activation
analysis of dysprosium, lanthanum
and aluminium in cerium.**
*Acta Universitatis Debreceniensis
de Ludovico Kossuth Nominatae
Series Physica et Chimica*,
109-117 (1967).
(ENGLISH) (HUNGARIAN AND RUSSIAN
SUMMARIES). KOSSUTH LAJOS
UNIVERSITY, DEBRECEN AND CENTRAL
RESEARCH INSTITUTE FOR PHYSICS,
BUDAPEST, HUNGARY. 10180 Elkady, A.
**Studies of prompt gamma rays from
neutron capture in silicon, iron,
aluminum, calcium, gold, lead,
and mixtures.**
Thesis. University of Maryland,
142p. (1969).
(ENGLISH). UNIVERSITY OF
MARYLAND, COLLEGE PARK, MARYLAND.
- 10176 Newton, D., Anderson, J., Battye,
C. K., Tomlinson, R. W. S.
**Neutron activation analysis in
vivo.** 10181 Mc Kown, D. M.
**Application of gamma-gamma
coincidence counting techniques
to the nondestructive activation
analysis of meteoritic materials.**
Thesis. University of Kentucky,
165p. (1969).
(ENGLISH). UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 10182 Rook, H. L.
**The determination of trace levels
of oxygen and carbon by charged**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- particle activation analysis.**
Thesis. Texas A & M University,
114p. (1969).
(ENGLISH). TEXAS A & M
UNIVERSITY, COLLEGE STATION,
TEXAS.
- 10183 Vandergraaf, T. T.
**Some aspects of activation
analysis of silicate rocks.**
Thesis. Pennsylvania State
University, 163p. (1969).
(ENGLISH). PENNSYLVANIA STATE
UNIVERSITY, UNIVERSITY PARK,
PENNSYLVANIA.
- 10184 Allen, R. O.
**Multi-element neutron activation
analysis: Development and
application to a trace element
study of the Bruderheim
chondrite.**
Thesis. University of Wisconsin,
243p. (1970).
(ENGLISH). UNIVERSITY OF
WISCONSIN, MADISON, WISCONSIN.
- 10185 Hanson, P. J.
**Water tracing with soluble metal
chelates and neutron-activation
analysis: A laboratory and field
study.**
Thesis. Oregon State University,
110p. (1970).
(ENGLISH). OREGON STATE
UNIVERSITY, CORVALLIS, OREGON.
- 10186 Mc Ginness, J. E.
**Vibrational entropy of the dilute
silver-gold system.**
Thesis. Rice University, 77p.
(1970).
(ENGLISH). RICE UNIVERSITY,
HOUSTON, TEXAS.
- 10187 Robinson, E. L.
**Neutron-activation analysis using
monoenergetic gamma-ray spectra.**
Thesis. Virginia Polytechnic
Institute, 72p. (1970).
(ENGLISH). VIRGINIA POLYTECHNIC
INSTITUTE, BLACKSBURG, VIRGINIA.
- 10188 Argonne National Laboratory
Biochemistry.
ANL-7770, 55-75 (1970).
(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.
- 10189 Bereznoi, T.
**Activation analysis of rare earth
elements.**
Kem. Kozlem., 34, No. 1, 87-106
(1970).
(HUNGARIAN). EGYESULT IZZOLAMPA
ES VILLAMOSSAGI RT., BUDAPEST,
HUNGARY.
- 10190 Schramel, P.
**A fast rabbit system for neutron
generators.**
Kerntechnik, 12, No. 9, 373-376
(1970).
(GERMAN AND ENGLISH).
PHYSIKALISCH-TECHNISCHE
ABTEILUNG, GESELLSCHAFT FUR
STRAHLENFORSCHUNG MBH, NEUHERBERG
BEI MUNCHEN, GERMANY.
- 10191 Kasperek, K., Schicha, H., Siller,
V.
**Uses of a research reactor for
medical investigations.**
Kerntechnik, 12, 436-441 (October
1970).
(GERMAN AND ENGLISH). INSTITUT
FUR MEDIZIN, KERNFORSCHUNGSANLAGE
JULICH GMBH, JULICH, GERMANY.
- 10192 Nikolov, K., Todorovski, D.
**Determination of lithium in the
mineral water of Khisary by
neutron activation analysis.**
God. Sofii. Univ., Khim. Fak.,
1967-1968, 62, 387-395 (1970).
(RUSSIAN) (ENGLISH SUMMARY).
BULGARIA.
- 10193 Scherle, A. C.
**Study of the delayed neutron
emitters obtained by gamma
irradiation: Application to
nondestructive analysis of very
weak amounts of light elements.**
NP-18896, 76p. (1970).
(FRENCH). FACULTE DES SCIENCES
D'ORSAY DE L'UNIVERSITE DE PARIS,
ORSAY, FRANCE.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 10194 Battiston, U., Moauro, A.
Determination of micro amounts of elements contained in natural water by means of neutron activation analysis.
 RT/CHI-(70)33, 36p. (7 October 1970).
 (ITALIAN). COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, ITALY.
- 10195 Munch, E.
Burnup determination through irreversible mixing of activable isotopes with fuel.
 JUL-712-RE, 101p. (December 1970).
 (GERMAN). ZENTRALABTEILUNG FORSCHUNGSREAKTOREN, KERNFORSCHUNGSANLAGE, JULICH, W. GERMANY.
- 10196 Jaskolska, H., Rowinska, L., Radwan, M.
The search for internal isotopic tracers in metallurgical materials. I. Determination of In, W, As, Au, Sc, Re, Ir and La by the neutron activation method.
J. Radioanal. Chem., **7**, No. 1, 29-39 (1971).
 (ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 10197 Meyer, H. G.
Nondestructive determination of uranium and thorium in geological materials by resonance-neutron activation analysis.
J. Radioanal. Chem., **7**, No. 1, 67-79 (1971).
 (ENGLISH). INSTITUTE OF RADIOCHEMISTRY, TECHNISCHE HOCHSCHULE MUNCHEN, GARCHING, GERMANY.
- 10198 Stalnaker, N. D., Kahn, M., Kenna, B. T.
Fast neutron activation: Sample preparation utilizing graphite as a diluent.
J. Radioanal. Chem., **7**, No. 1, 81-87 (1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF NEW MEXICO AND SANDIA LABORATORIES, ALBUQUERQUE, NEW MEXICO.
- 10199 Engelmann, C.
Determination of beryllium, boron, carbon, nitrogen, oxygen, and fluorine by proton-, deuteron-, helium-3-, and α -activation. I. Activation curves and detection sensitivity.
J. Radioanal. Chem., **7**, No. 1, 89-101 (1971).
 (FRENCH) (ENGLISH SUMMARY). DEPARTEMENT DE PHYSICO CHIMIE, SERVICE DE PHYSICO-CHIMIE-APPLIQUEE, GROUPE DE PHYSIQUE ANALYTIQUE, CENTRE D'ETUDES NUCLEAIRES DE SACLAY, GIF-SUR-YVETTE, FRANCE.
- 10200 Buczko, M., Csikai, J., Varga, G.
Determination of silicon in aluminum by 14 MeV neutron activation analysis.
J. Radioanal. Chem., **7**, No. 1, 103-106 (1971).
 (ENGLISH). INSTITUTE OF EXPERIMENTAL PHYSICS, KOSSUTH UNIVERSITY, DEBRECEN, HUNGARY.
- 10201 Pillay, K. K. S., Thomas, C. C.
Determination of the trace element levels in atmospheric pollutants by neutron activation analysis.
J. Radioanal. Chem., **7**, No. 1, 107-118 (1971).
 (ENGLISH). WESTERN NEW YORK NUCLEAR RESEARCH CENTER, INC., BUFFALO, NEW YORK.
- 10202 Adamek, A., Severa, F.
A dual pneumatic tube transfer system for the analysis of fast neutron activated short-lived isotopes.
J. Radioanal. Chem., **7**, No. 1, 119-125 (1971).
 (ENGLISH). INSTITUTE OF PHYSICS OF THE SLOVAK ACADEMY OF SCIENCES, BRATISLAVA, CZECHOSLOVAKIA.
- 10203 Dams, R., Adams, F.
A compilation of gamma-transition energies of radionuclides produced by reactor irradiation.
J. Radioanal. Chem., **7**, No. 1, 127-160 (1971).
 (ENGLISH). INSTITUTE FOR NUCLEAR

ACTIVATION ANALYSIS – ACCESSION NUMBERS

SCIENCES, UNIVERSITY OF GHENT,
GHENT, BELGIUM.

activation prospecting method.
Sov. Geol., **14**, No. 5, 145–149
(1971).

10204 Battelle Northwest

**Inhalation hazards to uranium
miners.**

BNWL–1551 (Part 2), 1–4 (March
1971).

(ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.

(RUSSIAN). VSES. NAUCHNO-ISSLED.
INST. RAZVED. GEOFIZ., LENINGRAD,
RUSSIA.

10205 Battelle Northwest

**Physical and radiological
chemistry of ocean solutions.**

BNWL–1551 (Part 2), 12–22 (March
1971).

(ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.

10210 Koeman, J. H., Garssen–Hoekstra,
J., Pels, E., De Goeij, J. J. M.

**Poisoning of birds of prey by
methyl mercury compounds.**

*Overdruk UIT: Mededelingen
Fakulteit Landbouw. Wetenschappen
Gent*, **36**, No. 1, 43–49 (1971).

(ENGLISH). INSTITUTE OF
VETERINARY PHARMACOLOGY AND
TOXICOLOGY, UTRECHT AND
INTERUNIVERSITAIR REACTOR
INSTITUUT, DELFT.

10206 Battelle Northwest

**Nuclear techniques in medical
science.**

BNWL–1551 (Part 2), 72–79 (March
1971).

(ENGLISH). BATTELLE NORTHWEST,
PACIFIC NORTHWEST LABORATORY,
RICHLAND, WASHINGTON.

10211 De Groot, A. J., De Goeij, J. J.
M., Zegers, C.

**Contents and behaviour of mercury
as compared with other heavy
metals in sediments from the
Rivers Rhine and Ems.**

Geologie en Mijnbouw, **50**, No. 3,
393–398 (1971).

(ENGLISH). INSTITUTE FOR SOIL
FERTILITY, HAREN (GR.) AND
INTERUNIVERSITY REACTOR
INSTITUTE, DELFT, THE
NETHERLANDS.

10207 Rahn, K. A.

**Sources of trace elements in
aerosols: An approach to clean
air.**

COO–1705–9, 309p. (May 1971).

(ENGLISH). DEPARTMENT OF
METEOROLOGY AND OCEANOGRAPHY,
UNIVERSITY OF MICHIGAN, ANN
ARBOR, MICHIGAN.

10212 De Goeij, J. J. M., Houtman, J. P.
W.

**Neutron activation analysis used
in environmental pollution
problems. Pollution of water,
soils and foods.**

R.I. Rapport 133–71–08, 15p.
(1971).

(ENGLISH). INTERUNIVERSITY
REACTOR INSTITUTE, DELFT, THE
NETHERLANDS.

10208 Lux, F.

**Physical methods in chemistry:
Activation analysis.**

Chem. Unserer Zeit, **5**, No. 2,
33–40 (1971).

(GERMAN). INSTITUT
RADIOCHEMISCHE TECHNISCHE
UNIVERSITAT MUNCHEN, GERMANY.

10213 Bereznai, T., Stefaniay, V.

**Autoradiography and x-ray
topography of silicon planar
devices.**

Izotoptechnika (Budapest), No.
1–2, 45–50 (1971).

(HUNGARIAN) (ENGLISH SUMMARY).
EIVRT FENYFORRASKUTATASI

10209 Gorbachev, A. N., Karpunin, A. M.,
Matukanis, L. F.

**Experiment on detection of
antimony–mercury mineralization
by a fluorometric neutron**

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- FOOSZTALY, ALAPANYAGVIZSGALAT,
BUDAPEST.
- 10214 Frana, J., Vobecky, M., Randa, Z.,
Benada, J., Kuncir, J.
**Instrumental neutron activation
analysis of lunar samples by
means of short activation.**
Radiochem. Radioanal. Letters, **8**,
No. 2, 97–105 (1971).
(ENGLISH). NUCLEAR RESEARCH
INSTITUTE, CZECHOSLOVAK ACADEMY
OF SCIENCES, REX NEAR PRAGUE AND
INSTITUTE OF MINERAL RAW
MATERIALS, KUTNA HORA,
CZECHOSLOVAKIA.
- 10215 Peisach, M.
**Determination of oxygen by the
spectrometry of prompt gamma-rays
from triton-induced reactions.**
Radiochem. Radioanal. Letters, **8**,
No. 2, 119–127 (1971).
(ENGLISH). LABORATOIRE PIERRE
SUE, C.E.N. SACLAY,
GIF-SUR-YVETTE, FRANCE.
- 10216 Pomorski, L., Wilczynski, J.
**Scintillation detector for β^+
radiation registering coincidence
of annihilation gamma quanta.**
INP-605/PL, 15p. (1968).
(POLISH) (ENGLISH AND RUSSIAN
SUMMARIES). INSTYTUT FIZYKI
JADROWEJ, KRAKOW, POLAND.
- 10217 Tanner, J. T.
**Cadmium abundances in tektites by
neutron activation.**
NYO-844-75, 7–9 (July 31, 1968).
(ENGLISH). USA.
- 10218 Tanner, J. T.
**Mercury and bismuth abundances in
iron meteorites by neutron
activation.**
NYO-844-75, 37–41 (July 31, 1968).
(ENGLISH). USA.
- 10219 Huey, J. M.
**Determination of thallium and lead
in meteorites.**
NYO-844-75, 54–65 (July 31, 1968).
(ENGLISH). USA.
- 10220 Morgan, D. J., Black, A.
**Determination of inorganic iodide
in urine by neutron activation.**
AERE-PR/HPM-12, 44 (February
1968).
(ENGLISH). ENGLAND.
- 10221 Warburton, J. A.
**Trace silver detection in
precipitation by atomic
absorption spectrophotometry.**
J. Appl. Meteorol., **8**, 464–466
(1969).
(ENGLISH). DESERT RESEARCH
INSTITUTE, UNIVERSITY OF NEVADA
SYSTEM, RENO, NEVADA.
- 10222 Yabuki, H., Shima, M.
**The analytical method of ^{239}Pu by
fission tracks.**
Bunseki Kagaku, **18**, 1265–1267
(1969).
(JAPANESE) (ENGLISH SUMMARY).
THE INSTITUTE OF PHYSICAL AND
CHEMICAL RESEARCH, YAMATO-MACHI,
SAITAMA-KEN.
- 10223 Quaglia, L., Robaye, G., Cuypers,
M., Barrandon, J. N.
**Analysis by nuclear reactions for
oxygen and carbon in a thin layer
on the surface of metals.
Precautions to take during
measurements on solid carbon
targets.**
Nucl. Instruments Methods, **68**,
315–324 (1969).
(FRENCH) (ENGLISH SUMMARY).
LABORATOIRE VAN DE GRAAFF AND
LABORATOIRE D'APPLICATION DES
RADIOELEMENTS UNIVERSITE DE
LIEGE, BELGIQUE AND CENTRE
D'ETUDES DE CHIMIE METALLURGIQUE,
VITRY SUR SEINE, FRANCE.
- 10224 Kringinger, H., Wiesner, S.,
Faber, C.
**Pulsed neutron method for
non-destructive and simultaneous
determination of the ^{235}U and
 ^{239}Pu contents of irradiated and
non-irradiated reactor fuel
elements.**
Nucl. Instruments Methods, **73**,
13–33 (1969).
(ENGLISH). INTERATOM,

ACTIVATION ANALYSIS - ACCESSION NUMBERS

INTERNATIONALE ATOMREAKTORBAU
GMBH, BENSBERG BEI KOLN, GERMANY.

**contamination and its
distribution in nuclear fuel
particles.**

- 10225 Wiernik, M., Amiel, S.
**Dead time correction in activation
analysis with very short-lived
nuclides.**
IA-1190, 112-114 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10226 Wiernik, M., Amiel, S.
**Activation analysis of lead by
means of ^{207m}Pb.**
IA-1190, 114-115 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10227 Wiernik, M., Amiel, S.
**Activation analysis of lithium by
means of ⁸Li and a Cerenkov
detector.**
IA-1190, 115-116 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10228 Mantel, M., Propai, S. T., Amiel,
S.
**Determination of thorium in ores
by non-destructive activation
analysis using high resolution
gamma ray detectors.**
IA-1190, 116-117 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10229 Abu Yaron, A., Nitzan, A., Amiel,
S.
**Detection of gunpowder residues by
neutron activation analysis.**
IA-1190, 117-118 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10230 Mantel, M., Abu Yaron, A., Amiel,
S.
**Trace element analysis of standard
reference materials.**
IA-1190, 118-119 (1969).
(ENGLISH). ISRAEL ATOMIC ENERGY
COMMISSION, YAVNE, ISRAEL.
- 10231 Steward, K. P.
**Methods for determining coating
contamination and its
distribution in nuclear fuel
particles.**
GA-9608, 51p. (27 August 1969).
(ENGLISH). GULF GENERAL ATOMIC
INC., SAN DIEGO, CALIFORNIA.
- 10232 Friedman, G. M., Miller, D. A.
**Uranium geochemistry in carbonates
using the fission track method.**
RPI-3836-3, 3p. (January 1970).
(ENGLISH). USA.
- 10233 Das, H. A., Zonderhuis, J.
**Corrections for dead-time losses
in the measurement of gamma-ray
spectra of short-lived
radionuclides.**
Nucl. Technol., **10**, No. 3, 328-334
(March 1971).
(ENGLISH). RESEARCH CENTRUM
NEDERLAND, PETTEN, NETHERLANDS.
- 10234 Brodzinski, R. L.
**The measurement of radiation
exposure of astronauts by
radiochemical techniques.**
**Quarterly Research Report to the
NASA Manned Spacecraft Center,
January 4-April 4, 1971.**
BNWL-1183-8, 41p. (15 April 1971).
(ENGLISH). BATTELLE MEMORIAL
INSTITUTE, PACIFIC NORTHWEST
LABORATORIES, RICHLAND,
WASHINGTON.
- 10235 Aktiebolaget Atomenergi
**Nuclear chemistry. Progress
Report, 1970.**
AE-419, 32p. (April 1971).
(ENGLISH). AKTIEBOLAGET
ATOMENERGI, STUDSVIK, NYKOPING,
SWEDEN.
- 10236 Goode, G. C., Wood, G. A., Brooke,
N. M., Coleman, R. F.
**Multi-element analysis of glass
fragments by neutron activation
and the application to forensic
science.**
AWRE-0-24/71, 32p. (May 1971).
(ENGLISH). ATOMIC WEAPONS
RESEARCH ESTABLISHMENT,
ALDERMASTON, BERKS., ENGLAND.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 10237 Carpenter, R.
**Columbia River effects in the
 Northeast Pacific: Chemical and
 geological studies. Progress
 Report, July 1970–May 1971.**
 RLO-1725-201, 19p. (21 May 1971).
 (ENGLISH). UNIVERSITY OF
 WASHINGTON, DEPARTMENT OF
 OCEANOGRAPHY, SEATTLE,
 WASHINGTON.
- 10238 Bouglogne, A. R., Faraci, J. P.
²⁵²Cf neutron sources for
industrial applications.
Nucl. Technol., **11**, No. 1, 75–83
 (May 1971).
 (ENGLISH). E.I. DUPONT DE NEMOURS
 AND COMPANY, SAVANNAH RIVER
 LABORATORY, AIKEN, S.C.
- 10239 Carlton, R. F., Lehman, A.
**Analysis of Nashville air
 pollution via neutron activation
 analysis.**
J. Tenn. Acad. Sci., **46**, No. 2,
 63–65 (1971).
 (ENGLISH). MIDDLE TENNESSEE
 STATE UNIVERSITY, MURFREESBORO,
 TENNESSEE.
- 10240 Sorensen, J. C., Smith, C. B.,
 Francisco, V.
**Dispersion studies using stable
 and radioactive tracers in fresh
 water streams.**
*Proceedings of the Institute of
 Environmental Sciences 17th
 Annual Technical Meeting and
 Equipment Exposition, April
 26–30, 1971, Los Angeles,
 California*, 187–197, Institute of
 Environmental Sciences, Mt.
 Prospect, Illinois (1971).
 (ENGLISH). NORMAN ENGINEERING
 CO.
- 10241 Pillay, K. K. S., Thomas, C. C.,
 Sondel, J. A., Hyche, C. H.
**Determination of mercury in
 biological and environmental
 samples by neutron activation
 analysis.**
Anal. Chem., **43**, No. 11, 1419–1425
 (1971).
 (ENGLISH). WESTERN NEW YORK
 NUCLEAR RESEARCH CENTER, STATE
- UNIVERSITY OF NEW YORK AT
 BUFFALO, BUFFALO, N.Y.
- 10242 Heurtebise, M., Ross, W. J.
**Application of an iodide specific
 resin to the determination of
 iodine in biological fluids by
 activation analysis.**
Anal. Chem., **43**, No. 11, 1438–1441
 (1971).
 (ENGLISH). SECCION QUIMICA,
 INSTITUTO VENEZOLANO DE
 INVESTIGACIONES CIENTIFICAS,
 CARACAS, VENEZUELA.
- 10243 Frischauf, H.
**Neutron activation analysis of
 trace metals in tissue.**
Radiol. Austriaca, **18**, 103–106
 (1968).
 (GERMAN). MEDIZINISCHEN
 UNIVERSITATSKLINIK WIEN.
- 10244 Rakovic, M.
**Advances in the use of neutron
 activation analysis in biology
 and medicine.**
Casopis Lekaru Ceskych, **108**, 43–51
 (1969).
 (CZECHOSLOVAKIAN) (RUSSIAN,
 ENGLISH AND FRENCH SUMMARIES).
 KATEDRA LEKARSKE FYZIKY A
 NUKLEARNI MEDICINY FAKULTY
 VSEOBECNEHO LEKARSTVI KU, PRAHA.
- 10245 Wezranowski, E., Kosciukowa, B.,
 Urbanski, T. S., Radwan, M.
**Problems in application of
 activation analysis for studying
 the formation of nonmetallic
 inclusions in steel using
 nonradioactive tracers for
 labelling.**
Isotopenpraxis, **5**, 287–291 (1969).
 (GERMAN). INSTITUT FUR
 KERNFORSCHUNG, ABTEILUNG FUR
 ANWENDUNGEN VON ISOTOPEN IN
 METALLURGIE UND METALLKUNDE,
 SWIERK, VR POLEN.
- 10246 Michalik, J.
**The applicability of isotopic
 techniques in studying endogenous
 inclusions in steel.**
Isotopenpraxis, **5**, 299–301 (1969).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(GERMAN). INSTITUT FÜR
KERNFORSCHUNG, XX. ABTEILUNG,
SWIERK, VR POLEN.

No. 3, 137–141 (1970).
(ENGLISH). DEPARTMENT OF
CHEMISTRY, LOUGHBOROUGH
UNIVERSITY OF TECHNOLOGY, U.K.

10247 Hager, D.

**Symposium on the use of tracer
methods for improving the
technology of production
processes, and on the application
of nuclear-physical methods for
analyzing material qualities.**

Isotopenpraxis, 5, 384–386 (1969).
(GERMAN). GERMANY.

10252 Kim, C. K.

**Determination of oxygen in gallium
phosphide and silicon by helium-3
activation.**

Anal. Chim. Acta, 54, No. 3,
407–414 (1971).

(ENGLISH) (FRENCH AND GERMAN
SUMMARIES). BELL TELEPHONE
LABORATORIES, INC., MURRAY HILL,
N.J.

10248 Rakovic, M.

**Some physical problems in the
medical use of neutron activation
analysis.**

*Sb. Ved. Praci Lekar. Fak. Karlov
Univ. Hradci Kralove*, 11, 453–460
(1968).

(ENGLISH) (CZECHOSLOVAKIAN AND
RUSSIAN SUMMARIES). DEPARTMENT
OF MEDICAL PHYSICS AND NUCLEAR
MEDICINE, FACULTY OF GENERAL
MEDICINE, CHARLES UNIVERSITY,
PRAGUE.

10253 Hair, M. W., Kaufhold, J.,

Maurette, M., Walker, R. M.
**Thorium microanalysis using
fission tracks.**

Radiation Effects, 7, No. 3–4,
285–287 (1971).

(ENGLISH). LABORATORY FOR SPACE
PHYSICS, WASHINGTON UNIVERSITY,
ST. LOUIS, MISSOURI.

10249 Rasmussen, N. C.

**The potential of prompt activation
analysis in industrial
processing.**

Anal. Instrum., 7, 186–192 (1969).

(ENGLISH). DEPARTMENT OF NUCLEAR
ENGINEERING, MASSACHUSETTS
INSTITUTE OF TECHNOLOGY,
CAMBRIDGE, MASSACHUSETTS.

10254 Kliment, V., Tolgyessy, J.

**Continuous neutron activation
analysis.**

Chem. Listy, 65, No. 8, 799–822
(1971).

(CZECHOSLOVAKIAN) (ENGLISH
SUMMARY). FYZIKALNY USTAV SAV A
KATEDRA RADIOCHEMIE A RADIACNEJ
CHEMIE, CHEMICKOTECHNOLOGICKA
FAKULTA, SLOVENSKA VYSOKA SKOLA
TECHNICKA, BRATISLAVA.

10250 Khera, A. K., Steinnes, E., Oien,
A.

**A comparative study on the
aluminum determination in
ammonium acetate soil extracts by
spectrophotometry, activation
analysis, and atomic absorption.**

Acta Agr. Scand., 20, No. 1, 33–34
(1970).

(ENGLISH). DEPARTMENT OF SOIL
SCIENCE, AGRICULTURAL COLLEGE OF
NORWAY, VOLLEBEKK, NORWAY.

10255 Gillette, R. K.

**Non-destructive determination of
mercury in copper by thermal
neutron activation analysis.**

Anal. Letters, 4, No. 9, 563–572
(1971).

(ENGLISH). MONSANTO RESEARCH
CORPORATION, MOUND LABORATORY,
MIAMISBURG, OHIO.

10251 Bibby, D. M., Oldham, G.

**Determination of fast neutron flux
in irradiated solutions.**

Radiochem. Radioanal. Letters, 4,

10256 John, J., Lukens, H. R.,

Schlesinger, H. L.

Trace analysis the nuclear way.

Ind. Res., 13, No. 9, 48–51
(1971).

(ENGLISH). GULF RADIATION

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- TECHNOLOGY, SAN DIEGO,
CALIFORNIA.
- 10257 Henkelmann, R.
Analytical use of the prompt γ -radiation following neutron capture.
Radiochim. Acta, **15**, No. 4,
169–180 (1971).
(GERMAN) (ENGLISH AND FRENCH
SUMMARIES). INSTITUT FÜR
RADIOCHEMIE DER TECHNISCHEN
UNIVERSITÄT MÜNCHEN, GERMANY.
- 10258 Abdullaev, K., Zakhvataev, B. B.,
Perelygin, V. P.
**Determination of the uranium
concentration in plants according
to traces of uranium fission
fragments.**
Radiobiology, **8**, No. 5, 168–170
(1968).
(ENGLISH TRANSLATION). UNITED
INSTITUTE OF NUCLEAR RESEARCH,
DUBNA.
- 10259 Moser, E.
**Radiometric method for
non-destructive determination of
boron traces.**
*Sitzber. Osterr. Akad. Wiss. Abt.
II*, **177**, 157–169 (1969).
(GERMAN). GERMANY.
- 10260 Sircana, S., Gioria, G.
**Determination of uranium
distribution in rocks by fission
track recording method.**
Comitato Naz. Energ. Nucl. Notiz.,
15, Nos. 8–9, 73–82 (1969).
(ITALIAN) (ENGLISH AND FRENCH
SUMMARIES). LABORATORIO
GEOMINERARIO DEL CNEN – CENTRO
STUDI NUCLEARI DELLA CASACCIA,
ROMA.
- 10261 Filippone, W. L.
**Applications of linear vector
space theory for analysis of
complex gamma spectra.**
Thesis. University of Maryland,
123p. (1970).
(ENGLISH). UNIVERSITY OF
MARYLAND, COLLEGE PARK, MARYLAND.
- 10262 Rodriguez-Gonzalez, F. A.
**Application of neutron activation
analysis to the study of
interstitial solid solution of
oxygen in niobium and in
niobium-titanium alloys.**
Thesis. University of Texas,
141p. (1970).
(ENGLISH). UNIVERSITY OF TEXAS,
AUSTIN, TEXAS.
- 10263 Showalter, D. L.
**Composition trends in australites,
impact glasses, and associated
natural materials by activation
analysis.**
Thesis. University of Kentucky,
188p. (1970).
(ENGLISH). UNIVERSITY OF
KENTUCKY, LEXINGTON, KENTUCKY.
- 10264 Toth-Allen, J. E.
**Distribution and histopathological
effects of cis-platinum(II)
diamminodichloride on nontumored
and tumored (sarcoma 180) Swiss
white mice.**
Thesis. Michigan State
University, 130p. (1970).
(ENGLISH). MICHIGAN STATE
UNIVERSITY, EAST LANSING,
MICHIGAN.
- 10265 International Atomic Energy Agency
Justice.
Int. At. Energy Agency Bull., **13**,
No. 2, 29–32 (1971).
(ENGLISH). UNITED STATES, UNITED
KINGDOM AND CANADA.
- 10266 Doughty, L. E.
**Analytical methods for waste
water. Inorganics. Automated,
monitoring and radiochemical
techniques.**
J. Water Pollut. Contr. Fed., **43**,
No. 6, 937–942 (1971).
(ENGLISH). USA.
- 10267 Jenkins, R., De Vries, J. L.
**Isotope excitation in on-stream
analysis.**
Can. Spectrosc., **16**, 54–59 (March
1971).
(ENGLISH) (FRENCH SUMMARY). N.V.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

PHILIPS GLOEILAMPENFABRIEKEN,
EINDHOVEN, THE NETHERLANDS.

24-26 (1971).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUT FIZIKI AN LATV. SSR.

- 10268 Margosis, M., Tanner, J. T.,
Lambert, J. P. F.
**Neutron activation analysis of
halogens in drugs.**
J. Pharm. Sci., **60**, No. 10,
1550-1555 (1971).
(ENGLISH). NATIONAL CENTER FOR
ANTIBIOTICS ANALYSIS AND DIVISION
OF FOOD CHEMISTRY AND TECHNOLOGY,
FOOD AND DRUG ADMINISTRATION,
U.S. DEPARTMENT OF HEALTH,
EDUCATION, AND WELFARE,
WASHINGTON, D.C.
- 10269 Brunfelt, A. O., Heier, K. S.,
Steinnes, E., Sundvoll, B.
**Determination of 36 elements in
Apollo 14 bulk fines 14163 by
activation analysis.**
Earth Planetary Science Letters,
11, No. 5, 351-353 (1971).
(ENGLISH). MINERALOGISK-GEOLOGISK
MUSEUM, OSLO, AND INSTITUTT FOR
ATOMENERGI, KJELLER, NORWAY.
- 10270 Ricci, E.
**Simple, reliable basic equation
for proton-reaction analysis of
biological materials.**
Nucl. Instruments Methods, **94**, No.
3, 565-572 (1971).
(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.
- 10271 Abbosov, O., Abrams, I. A.,
Pelekis, L. L., Starchik, L. P.
**Neutron activation method for the
determination of hafnium in
zirconium concentrates and ores.**
Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser., No. 4,
20-23 (1971).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUT FIZIKI AN LATV. SSR.
- 10272 Riekstinya, D. V., Pelekis, L. L.
**Neutron activation method for the
determination of Au, Ga and Sb in
emitters alloy samples.**
Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser., No. 4,
- 10273 Riekstinya, D. V., Kizane, G. K.
**Instrumental neutron activation
method for determining phosphorus
and aluminum in the enamel of
teeth.**
Latv. PSR Zinat. Akad. Vestis,
Fiz. Teh. Zinat. Ser., No. 4,
27-30 (1971).
(RUSSIAN) (ENGLISH SUMMARY).
INSTITUT FIZIKI AN LATV. SSR.
- 10274 Vilaithong, T., Crumpton, D.,
Francois, P. E., Grimes, N. W.
**An investigation by neutron
activation of the magnesium/iron
ratio after the reaction
magnesium oxide + iron (III)
oxide to magnesium ferrate.**
J. Inorg. Nucl. Chem., **33**, No. 9,
3165-3166 (1971).
(ENGLISH). DEPARTMENT OF
PHYSICS, UNIVERSITY OF ASTON IN
BIRMINGHAM, GOSTA GREEN,
BIRMINGHAM, ENGLAND.
- 10275 Johnson, G. F., Thompson, M. F.,
Fetteroff, S., Fasano, A. N.
**Neutron activation analysis
technique for nail sodium
concentration in cystic fibrosis
patients.**
Pediatrics, **47**, 88-93 (January
1971).
(ENGLISH). DEPARTMENT OF
RADIOLOGY, BARNEY CHILDREN'S
MEDICAL CENTER AND THE AIR FORCE
INSTITUTE OF TECHNOLOGY, DAYTON,
OHIO.
- 10276 Cohn, S. H., Dombrowski, C. S.
**Measurement of total-body calcium,
sodium, chlorine, nitrogen, and
phosphorus in man by in vivo
neutron activation analysis.**
J. Nucl. Med., **12**, No. 7, 499-505
(July 1971).
(ENGLISH). MEDICAL RESEARCH
CENTER, BROOKHAVEN NATIONAL
LABORATORY, UPTON, N.Y.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- 10277 Oldham, G., Poxon, D. W., Ware, A. R.
The neutron generator in undergraduate teaching.
Nucl. Instruments Methods, **92**, 619–620 (1971).
 (ENGLISH). DEPARTMENT OF CHEMISTRY, LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY, LOUGHBOROUGH, U.K.
- 10278 Stella, R., Di Casa, M.
Radioanalytical investigation of the cesium salt of a rhodium-iodide complex.
Radiochem. Radioanal. Letters, **8**, No. 3, 137–145 (1971).
 (ENGLISH). CENTRO DI RADIOCHIMICA E ANALISI PER ATTIVAZIONE DEL C.N.R., AND ISTITUTO DI CHIMICA GENERALE E INORGANICA, UNIVERSITA DI PAVIA, PAVIA, ITALY.
- 10279 Craft, T. F.
Neutron activation analysis of scandium in clays.
Radiochem. Radioanal. Letters, **8**, No. 3, 199–203 (1971).
 (ENGLISH). ENGINEERING EXPERIMENT STATION, GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GEORGIA.
- 10280 Van Zelst, L.
Instrumental photon and proton activation analysis of some elements in stony meteorites.
 Thesis. University of Amsterdam, 110p. (1971).
 (ENGLISH). UNIVERSITY OF AMSTERDAM, THE NETHERLANDS.
- 10281 Heidinga, M. C., Koeman, J. H., De Goeij, J. J. M., Zegers, C., Verwey, J. H. P., Van Driel, W., De Groot, A. J.
The accumulation of mercury in the winterbed of the river Rhine.
Overdruk uit TNO-Nieuws, **26**, 382–384 (1971).
 (DUTCH). INSTITUUT VOOR VETENAIRE FARMACOLOGIE EN TOXICOLOGIE DER RIJKSUNIVERSITEIT, UTRECHT, INTERUNIVERSITAIR REACTOR INSTITUUT, DELFT,
- GEZONDHEIDSDIENST VOOR DIEREN IN DE PROVINCIE GELDERLAND, ROSENDAAL AND INSTITUUT VOOR BODEMVRUCHTBAARHEID, HAREN/GRONINGEN.
- 10282 Goles, G. G.
Rare earth geochemistry of pre-Cambrian plutonic rocks.
XXIII International Geological Congress, **6**, 237–249 (1968).
 (ENGLISH). U.S.A.
- 10283 Kanabrocki, E. L., Case, L. F., Graham, L., Fields, T., Oester, Y. T., Kaplan, E.
Neutron activation studies of trace elements in human fingernails.
J. Nucl. Med., **9**, 478–481 (1968).
 (ENGLISH). VETERANS ADMINISTRATION HOSPITAL, HINES, LOYOLA UNIVERSITY STRITCH SCHOOL OF MEDICINE, HINES, AND UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE, CHICAGO, ILLINOIS.
- 10284 Kubota, M., Amano, H.
Impurities in radioisotopes produced by (n,γ) reaction.
JAERI-Memo 3545, 12p. (May 1969).
 (JAPANESE) (ENGLISH SUMMARY). JAPAN ATOMIC ENERGY RESEARCH INSTITUTE, TOKAI-MURA, IBARAKI-KEN.
- 10285 Elektronik Anzeiger
Neutron generator for activation analysis.
Elektronik Anzeiger, **2**, No. 1, 7 (1970).
 (GERMAN). GERMANY.
- 10286 Sharipov, E. B., Khudaiberganov, U.
Radioactive method for determining indium and gallium in water.
Izv. Akad. Nauk Uzb. SSR, Ser. Fiz.-Mat. Nauk, No. 6, 55–56 (1970).
 (RUSSIAN). INSTITUT YADERNOI FIZIKI, AN UZSSR.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10287 Sato, O.
Tracer use of radioisotopes in industry.
Genshiryoku Kogyo, **17**, No. 8, 9-13 (1971).
 (JAPANESE). JAPAN.
- 10288 Ohno, S., Asprer, G. A., Hongo, S., Suzuki, M., Watanabe, S.
Determination of europium in biological materials by neutron activation analysis.
Radioisotopes (Tokyo), **20**, No. 5, 224-227 (May 1971).
 (ENGLISH) (JAPANESE SUMMARY). NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES, ANAGAWA, CHIBA-SHI, JAPAN.
- 10289 Heurtebise, M., Ross, W. J.
Application of Br-80m to the semi-automated analysis of bromine in biological fluids.
J. Radioanal. Chem., **8**, No. 1, 5-12 (1971).
 (ENGLISH). QUIMICA NUCLEAR, SECCION QUIMICA, INSTITUTO VENEZOLANO DE INVESTIGACIONES CIENTIFICAS, CARACAS, VENEZUELA.
- 10290 Marowsky, G.
Activation analysis determination of thallium in rocks. Comparison of several measuring methods.
J. Radioanal. Chem., **8**, No. 1, 27-32 (1971).
 (GERMAN) (ENGLISH SUMMARY). GEOCHEMISCHES INSTITUT DER UNIVERSITAT GOTTINGEN, BRD.
- 10291 Gilbert, E. N., Glukhova, G. V., Glukhov, G. G., Mikhailov, V. A., Torgov, V. G.
Neutron activation determination of gold in rocks using dibutyl sulfide extraction for gold separation.
J. Radioanal. Chem., **8**, No. 1, 39-43 (1971).
 (ENGLISH). INSTITUTE OF INORGANIC CHEMISTRY, SIBERIAN BRANCH OF USSR ACADEMY OF SCIENCES, NOVOSIBIRSK, USSR.
- 10292 Nadkarni, R. A., Haldar, B. C.
Substoichiometric determination of tungsten by neutron activation analysis.
J. Radioanal. Chem., **8**, No. 1, 45-51 (1971).
 (ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.
- 10293 Lisovskii, I. P., Smakhtin, L. A.
Determination of sodium and phosphorus in organophosphorus compounds by fast neutron activation.
J. Radioanal. Chem., **8**, No. 1, 75-81 (1971).
 (ENGLISH). KARPOV PHYSICAL-CHEMICAL INSTITUTE, MOSCOW, USSR.
- 10294 Zmijewska, W., Sorantin, H.
Non-destructive determination of dysprosium in graphites by neutron activation analysis.
J. Radioanal. Chem., **8**, No. 1, 83-88 (1971).
 (ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, DEPARTMENT OF ANALYTICAL CHEMISTRY, WARSAW, POLAND AND OSTERREICHISCHE STUDIENGESELLSCHAFT FUR ATOMENERGIE G.M.B.H., WIEN, INSTITUT FUR CHEMIE, REAKTORZENTRUM SEIBERSDORF, AUSTRIA.
- 10295 Becknell, D. E., Voigt, A. F.
Neutron activation analysis of heavy rare earths.
J. Radioanal. Chem., **8**, No. 1, 89-99 (1971).
 (ENGLISH). INSTITUTE FOR ATOMIC RESEARCH AND DEPARTMENT OF CHEMISTRY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 10296 Pagden, I. M. H., Pearson, G. J., Bewers, J. M.
An isotope catalogue for instrumental activation analysis, I.
J. Radioanal. Chem., **8**, No. 1, 127-188 (1971).
 (ENGLISH). ATLANTIC OCEANOGRAPHIC LABORATORY, BEDFORD INSTITUTE, DARTMOUTH, NOVA SCOTIA, CANADA.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 10297 Winchester, J. W.
Activation analysis in mineral prospecting.
Nuclear Techniques for Mineral Exploration and Exploitation, 1–5, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.
 (ENGLISH). IAEA LABORATORY, SEIBERSDORF, AUSTRIA.
- 10298 Tolmie, R. W.
Mobile equipment for combined neutron activation and x-ray fluorescence analysis.
Nuclear Techniques for Mineral Exploration and Exploitation, 7–26, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). ATOMIC ENERGY OF CANADA LTD., COMMERCIAL PRODUCTS, OTTAWA, ONTARIO, CANADA.
- 10299 Clayton, C. G.
Use of nuclear techniques in on-stream analysis in mineral processing plants.
Nuclear Techniques for Mineral Exploration and Exploitation, 59–72, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). WANTAGE RESEARCH LABORATORY, WANTAGE, BERKS., ENGLAND.
- 10300 Thompson, C. J.
Computer techniques in neutron activation analysis.
Nuclear Techniques for Mineral Exploration and Exploitation, 115–128, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). ATOMIC ENERGY OF CANADA LTD., COMMERCIAL PRODUCTS, OTTAWA, ONTARIO, CANADA.
- 10301 Schiller, P., Cook, G. B., Beswick, C. K.
A contribution to geobotanical and geochemical prospecting for gold by activation analysis.
Nuclear Techniques for Mineral Exploration and Exploitation, 129–135, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). IAEA LABORATORY, SEIBERSDORF, AUSTRIA.
- 10302 Schiller, P., Cook, G. B.
Determination of trace amounts of gold in natural waters by non-destructive activation analysis using preconcentration before irradiation.
Nuclear Techniques for Mineral Exploration and Exploitation, 137–142, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). IAEA LABORATORY, SEIBERSDORF, AUSTRIA.
- 10303 Santos, G. G., Walters, L. J.
Gold provinces in the Philippines defined by activation analysis.
Nuclear Techniques for Mineral Exploration and Exploitation, 143–156, Vienna, International Atomic Energy Agency (1971).
 (ENGLISH). PHILIPPINE ATOMIC RESEARCH CENTER, PHILIPPINE ATOMIC ENERGY COMMISSION, MANILA, PHILIPPINES.
- 10304 Morris, D. F. C., Denny, J. A.
A radiochemical procedure for tin.
Radiochem. Radioanal. Letters, **8**, No. 4, 219–223 (1971).
 (ENGLISH). NUCLEAR SCIENCE CENTRE, BRUNEL UNIVERSITY, UXBRIDGE, ENGLAND.
- 10305 Nadkarni, R. A., Haldar, B. C.
Simultaneous determination of chromium and zinc by neutron activation analysis.
Radiochem. Radioanal. Letters, **8**, No. 4, 233–240 (1971).
 (ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.
- 10306 Das, H. A., Janssen, R., Zonderhuis, J.
Determination of iridium in rocks.
Radiochem. Radioanal. Letters, **8**, No. 4, 257–265 (1971).
 (ENGLISH). REACTOR CENTRUM NETHERLAND, PETTEN, THE NETHERLANDS.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10307 Peisach, M., Comar, D.,
Kellershohn, C.
**Rapid neutron activation analysis
of bromine using 6.1 min
bromine-82m.**
Radiochem. Radioanal. Letters, **8**,
No. 4, 267–276 (1971).
(ENGLISH). COMMISSARIAT A
L'ENERGIE ATOMIQUE, DEPARTEMENT
DE BIOLOGIE, SERVICE HOSPITALIER,
FREDERIC JOLIOT, ORSAY, FRANCE.
- 10308 Bowen, H. J. M.
**The applicability of neutron
activation techniques in human
metabolic studies.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 1–13,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). CHEMISTRY DEPARTMENT,
UNIVERSITY OF READING, ENGLAND.
- 10309 Parr, R. M.
**The medical activation analysis
research programme of the IAEA
Laboratory.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 15–26,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). MEDICAL APPLICATIONS
SECTION, INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA, AUSTRIA.
- 10310 Qaim, S. M.
**Investigations of thermal and 14
MeV neutron activation analysis
in Pakistan.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 27–36,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). ATOMIC ENERGY CENTRE,
LAHORE, PAKISTAN.
- 10311 De La Cruz, B.
**Applications of neutron activation
analysis in medical research in
the Philippines.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 37–40,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). BIO-MEDICAL
DEPARTMENT, PHILIPPINE ATOMIC
RESEARCH CENTER, QUEZON CITY,
PHILIPPINES.
- 10312 Bowen, H. J. M.
**The use of activation analysis in
the study of cystic fibrosis.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 145–148,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). CHEMISTRY DEPARTMENT,
UNIVERSITY OF READING, ENGLAND.
- 10313 Parr, R. M.
**Theoretical photopeak count-rates
in Ge(Li) and NaI(Tl) detectors
from gamma-ray emitters formed by
thermal neutron activation.**
*Uses of Activation Analysis in
Studies of Mineral Element
Metabolism in Man*, 150–163,
IAEA-122, Papers given at a Panel
Meeting, Teheran, Iran, 3–7 June
1968, Vienna, International
Atomic Energy Agency (1970).
(ENGLISH). MEDICAL APPLICATIONS
SECTION, INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA, AUSTRIA.
- 10314 Kowalski, E.
**Measurements in chemical industry
using isotopes.**
Chem. Rundschau (Solothurn), **21**,
599–601 (1968).
(GERMAN). LANDIS AND GYR AG,
ZUG.
- 10315 Barit, I. Y., Kudinov, B. S.,
Musaelyan, R. M., Pronman, I. M.
Determination of nitrogen in

ACTIVATION ANALYSIS – BIBLIOGRAPHY

**niobium and tantalum by
activation with fast neutrons.**

*Metody Opredeleniya i
Issledovaniya Sostoyaniya Gazov v
Metallakh*, 115–122, Izdatelstvo
Nauka, Moskva (1968).
(RUSSIAN). RUSSIA.

10316 Kudinov, B. S., Pronman, I. M.,
Shchulepnikov, M. N.
**Determination of nitrogen in
titanium by activation with fast
neutrons with the use of the
radiochemical separation.**
*Metody Opredeleniya i
Issledovaniya Sostoyaniya Gazov v
Metallakh*, 122–127, Izdatelstvo
Nauka, Moskva (1968).
(RUSSIAN). RUSSIA.

10317 Andreev, A. V., Barit, I. Y.,
Musaelyan, R. M., Pronman, I. M.
**Determination of oxygen in
molybdenum, niobium, and titanium
by activation with fast neutrons.**
*Metody Opredeleniya i
Issledovaniya Sostoyaniya Gazov v
Metallakh*, 127–134, Izdatelstvo
Nauka, Moskva (1968).
(RUSSIAN). RUSSIA.

10318 Chandler, E. M., Crawford, P. B.
**Activation analysis of sedimentary
rocks.**
*Bull. Acad. Polonaise Sci., Ser.
Sci. Geol. et Geographiques*, 17,
No. 1, 73–78 (1969).
(ENGLISH). TEXAS PETROLEUM
RESEARCH COMMITTEE, TEXAS A AND M
UNIVERSITY, COLLEGE STATION,
TEXAS.

10319 Stefanov, G., Popov, C., Tomov,
T., Nenov, N.
**Nondestructive neutron-activation
determination of gold in rocks
and ores.**
*Izv. Geol. Inst., Bulg. Akad.
Nauk, Ser. Geokhim., Mineral.
Petrogr.*, 18, 105–111 (1969).
(BULGARIAN) (GERMAN SUMMARY).
BULGARIA.

10320 Amiryanyan, S. O.
Sources of gold ore mineralization

**determined from neutron
activation analytical data.**

Dokl. Akad. Nauk Arm. SSR, 51, No.
2, 110–114 (1970).
(RUSSIAN). INSTITUT
GEOLOGICHESKIKH NAUK, AKADEMII
NAUK, EREVAN, USSR.

10321 Thompson, B. A., Miller, E. C.
**Determination of trace elements in
ruby laser crystals by neutron
activation analysis.**
*J. Research National Bureau of
Standards*, 75A, 429–433
(September–October 1971).
(ENGLISH). INSTITUTE FOR
MATERIALS RESEARCH, NATIONAL
BUREAU OF STANDARDS, WASHINGTON,
D.C.

10322 Hegedues, D., Noszticiusz, Z.,
Erdey, L.
**Determination of trace amounts of
copper in luminescent zinc
sulfide by neutron activation
analysis.**
Magy. Kem. Lapja, 26, No. 7,
344–347 (1971).
(HUNGARIAN) (RUSSIAN AND ENGLISH
SUMMARIES). ALKALMAZOTT KEMIA
TANSZEKE, BUDAPESTI MUSZAKI
EGYETEM, BUDAPEST, HUNGARY.

10323 Mamuro, T.
**Activation analysis of atmospheric
pollutants.**
Genshiryoku Kogyo, 17, No. 8,
19–25 (1971).
(JAPANESE). JAPAN.

10324 Fomenko, V. T., Velyus, L. M.,
Vasilev, S. S., Fomenko, I. N.
**Activation analysis of complex
media without using spectral
apparatus.**
*Izv. Vyssh. Ucheb. Zaved., Gorn.
Zh.*, 14, No. 6, 166–168 (1971).
(RUSSIAN). MAGNITOGORSK.
GORNO-METALL. INST. IM. NOSOVA.

10325 Stephenson, J. F., Ehmann, W. D.
**Neutron activation analysis of
gold in archean igneous and
metamorphic rocks of the Rice
Lake – Beresford Lake Area,**

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- Southeastern Manitoba.**
Econ. Geol., **66**, No. 6, 933-939 (1971).
 (ENGLISH). DEPARTMENT OF EARTH SCIENCES, UNIVERSITY OF MANITOBA, WINNIPEG, MANITOBA, CANADA AND DEPARTMENT OF CHEMISTRY, UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY.
- 10326 Martin, A., Garcia-Rosell, L.
Uranium and rhenium in sedimentary rocks. II. Miocene basin of Granada.
Bol. Geol. Minero, **82**, No. 1, 65-69 (1971).
 (SPANISH). UNIVERSITY GRANADA, GRANADA, SPAIN.
- 10327 Goles, G. G.
Trace elements in ultramafic rocks.
Ultramafic and Related Rocks, 352-362, Wylie, P.J. (Ed.), John Wiley and Sons, Inc. (1967).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, SAN DIEGO, CALIFORNIA.
- 10328 Masters, L. W., Lutz, G. J.
Determination of thallium by photon activation analysis.
Anal. Chim. Acta, **56**, 365-370 (1971).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 10329 Zmijewska, W.
Determination of silver in silicon by neutron activation and chemical separation by isotope exchange.
Radiochem. Radioanal. Letters, **8**, No. 5, 285-290 (1971).
 (ENGLISH). INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND.
- 10330 Janczyszyn, J., Gorski, L.
Optimization of the number of cycles in cyclic activation analysis.
Radiochem. Radioanal. Letters, **8**, No. 5, 297-304 (1971).
 (ENGLISH). INSTITUTE OF NUCLEAR TECHNIQUES, ACADEMY OF MINING AND METALLURGY, AL. MICKIEWICZA 30, CRACOW, POLAND.
- 10331 Muller, T., Steinnes, E.
On the purity of eluates from ^{99m}Tc generators.
Scand. J. Clin. Lab. Invest., **28**, No. 2, 213-217 (October 1971).
 (ENGLISH). THE ISOTOPE PHARMACY, THE NATIONAL HEALTH SERVICE OF DENMARK, COPENHAGEN, DENMARK AND INSTITUTT FOR ATOMENERGI, KJELLER, NORWAY.
- 10332 Randle, K., Goles, G. G., Kittleman, L. R.
Geochemical and petrological characterization of ash samples from Cascade Range volcanoes.
Quaternary Research, **1**, No. 2, 261-282 (April 1971).
 (ENGLISH). CENTER FOR VOLCANOLOGY AND MUSEUM OF NATURAL HISTORY, UNIVERSITY OF OREGON, EUGENE, OREGON.
- 10333 Bird, E. D., Emery, J. F., Lupica, S. B., Lyon, W. S.
Antimony pentoxide for sodium removal in neutron activated brain.
 ORAU-107, 245-248 (1968).
 (ENGLISH). ANALYTICAL CHEMISTRY DIVISION, OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 10334 Abdel-Rassoul, A. A., Wahba, S. S.
Possible trends for purity control of uranium by neutron activation analysis.
 UAREE-68, 87p. (1968).
 (ENGLISH). SCIENTIFIC INFORMATION DIVISION, ATOMIC ENERGY ESTABLISHMENT, CAIRO, EGYPT.
- 10335 Newton, D., Anderson, J., Battye, C. K.
Neutron activation analysis in vivo.
 AERE-PR/HPM-13, 27 (March 1969).
 (ENGLISH). KING'S COLLEGE HOSPITAL AND MEDICAL SCHOOL, LONDON, ENGLAND.
- 10336 Lally, A.
The determination of beryllium in faeces.

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- AERE-PR/HPM-13, 35 (March 1969).
(ENGLISH). ENGLAND.
- 10337 Pretorius, R., Schweikert, E. A.
A method for determining calcium by alpha activation analysis.
SUNI-10, 19-20 (1969).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 10338 Pretorius, R., Wainerdi, R. E.
The determination of deuterium in heavy water by secondary deuteron activation.
SUNI-10, 20-21 (1969).
(ENGLISH). ACTIVATION ANALYSIS RESEARCH LABORATORY, TEXAS A AND M UNIVERSITY, COLLEGE STATION, TEXAS.
- 10339 Peisach, M., Pretorius, R.
Analysis of glasses by simultaneous measurement of scattered alpha particles and prompt proton spectrometry.
SUNI-10, 21-22 (1969).
(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, SOUTH AFRICA.
- 10340 Olivier, C., Peisach, M.
The determination of chromium on metal surfaces by prompt proton spectrometry.
SUNI-10, 22-23 (1969).
(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, SOUTH AFRICA.
- 10341 Brits, R. J. N., Peisach, M.
Studies on the isotopic determination of sulphur isotopes.
SUNI-10, 24 (1969).
(ENGLISH). SOUTHERN UNIVERSITIES NUCLEAR INSTITUTE, SOUTH AFRICA.
- 10342 Lyon, W. S., Ross, H. H.
Nuclear and radiochemistry.
ORNL-4466, 62-68 (1969).
(ENGLISH). OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TENNESSEE.
- 10343 Osawa, M., Goles, G. G.
Trace element abundances in Columbia River basalts.
Proceedings of the Second Columbia River Basalt Symposium, 55-71, Gilmour, E.H. and Stradling, D. (Eds.), Eastern Washington State College Press, Cheney, Washington (1970).
(ENGLISH). CENTER FOR VOLCANOLOGY, UNIVERSITY OF OREGON, EUGENE, OREGON.
- 10344 Mc Kown, D. M., Kay, M., Abu-Samra, A., Eichor, M. E., Vogt, J. R.
Multi-element surveys of bioenvironmental samples using neutron activation analysis.
Nuclear Methods in Environmental Research, 150-157, Proceedings of the American Nuclear Society Topical Meeting, August 23-24, 1971, Columbia, Missouri (1971).
(ENGLISH). UNIVERSITY OF MISSOURI, RESEARCH REACTOR FACILITY, COLUMBIA, MISSOURI.
- 10345 Olbrich, S. E., Martz, F. A., Vogt, J. R., Hilderbrand, E. S.
Use of neutron activation analysis in the determination of digestibility with cerium as an inert marker.
J. Animal Science, 33, No. 4, 899-902 (1971).
(ENGLISH). MISSOURI AGRICULTURAL EXPERIMENT STATION, UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI.
- 10346 Jinno, K., Ishii, D.
Activation analysis with beryllium-deuterium neutrons. Nondestructive determination of bromine in activation analysis with beryllium-deuteron neutrons using tungsten as internal standard.
Kogyo Kagaku Zasshi, 74, No. 9, 1800-1802 (1971).
(JAPANESE) (ENGLISH SUMMARY). DEPARTMENT OF APPLIED CHEMISTRY, FACULTY OF ENGINEERING, NAGOYA UNIVERSITY, CHIKUSA-KU, NAGOYA, JAPAN.

ACTIVATION ANALYSIS—ACCESSION NUMBERS

- 10347 Greenland, L. P., Rowe, J. J.,
Dinnin, J. I.
**Application of triple coincidence
counting and of fire-assay
separation to the neutron
activation determination of
iridium.**
U.S. Geol. Surv., Prof. Pap., No.
750-B, 175-179 (1971).
(ENGLISH). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.
- 10348 Greenland, L. P., Campbell, E. Y.
**Substoichiometric determination of
tantalum by neutron activation.**
U.S. Geol. Surv., Prof. Pap., No.
750-B, 191-193 (1971).
(ENGLISH). U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.
- 10349 Thorpe, M. M., Augustson, R. H.,
Menzel, J. H., Evans, A. E.,
Smith, D. B., Weisbin, C. R.
**Active assay of fissionable
materials at the Los Alamos
Nondestructive Assay and
Standards Laboratory.**
CONF-710617-31, *Twelfth Annual
Meeting of the Nuclear Materials
Management, West Palm Beach,
Florida, 29 June 1971*, 18p.
(1971).
(ENGLISH). UNIVERSITY OF
CALIFORNIA, LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW
MEXICO.
- 10350 Atkinson, G. D., Gage, S. J.
**Uranium assay by delayed gamma ray
analysis following ^{252}Cf neutron
interrogation.**
CONF-710617-36, *Twelfth Annual
Meeting of the Nuclear Materials
Management, West Palm Beach,
Florida, 29 June 1971*, 28p.
(1971).
(ENGLISH). UNIVERSITY OF TEXAS,
AUSTIN, TEXAS.
- 10351 Harlan, R. A., Cartwright, D. R.,
Deal, R. A., Chanda, R. N.
**Neutron interrogation of
low-specific-activity wastes with
a reactor.**
CONF-710617-40, *Twelfth Annual
Meeting of the Nuclear Materials
Management, West Palm Beach,
Florida, 29 June 1971*, 25p.
(1971).
(ENGLISH). DOW CHEMICAL CO.,
ROCKY FLATS DIVISION, DENVER,
COLORADO.
- 10352 Johnston, J. E.
**Health physics and medical
division progress report,
January-December 1970.**
AERE-PR/HPM-15, 66p. (May 1971).
(ENGLISH). HEALTH PHYSICS AND
MEDICAL DIVISION, ATOMIC ENERGY
RESEARCH ESTABLISHMENT, HARWELL,
BERKSHIRE, ENGLAND.
- 10353 Brodzinski, R. L.
**Measurement of radiation exposure
of astronauts by radiochemical
techniques. Quarterly research
report to the NASA Manned
Spacecraft Center, April 5,
1971-July 4, 1971.**
BNWL-1183-9, 16p. (15 July 1971).
(ENGLISH). BATTELLE PACIFIC
NORTHWEST LABORATORIES, RICHLAND,
WASHINGTON.
- 10354 Nadkarni, R. A., Haldar, B. C.
**N-benzoyl-N-phenylhydroxylamine as
a substoichiometric extractant in
neutron activation analysis, I.
Determination of scandium in
rocks.**
Radiochem. Radioanal. Letters, **8**,
No. 6, 341-348 (1971).
(ENGLISH). INORGANIC AND NUCLEAR
CHEMISTRY LABORATORY, INSTITUTE
OF SCIENCE, BOMBAY, INDIA.
- 10355 Geisler, M., Maul, E., Panse, H.
**Blank value in 14 MeV neutron
activation analysis of nitrogen
in samples containing hydrogen
and oxygen.**
Radiochem. Radioanal. Letters, **8**,
No. 6, 349-355 (1971).
(ENGLISH). ZENTRALINSTITUT FÜR
ISOTOPEN- UND STRAHLENFORSCHUNG
DER DAW, LEIPZIG, DDR.
- 10356 Janczyszyn, J., Loska, L., Gorski,
L.
Use of short-lived nuclides / T <

ACTIVATION ANALYSIS—BIBLIOGRAPHY

**10 sec/ for 14 MeV neutron
activation analysis.**

Radiochem. Radioanal. Letters, **8**,
No. 6, 363–370 (1971).

(ENGLISH). INSTITUTE OF NUCLEAR
TECHNIQUES, ACADEMY OF MINING AND
METALLURGY, CRACOW, POLAND.

10357 Rakovic, M., Glagolicova, A.,
Prouza, Z.

**Activation method for determining
chemical yields in analytical
separations.**

Radiochem. Radioanal. Letters, **8**,
No. 6, 371–375 (1971).

(ENGLISH). DEPARTMENT OF MEDICAL
PHYSICS AND NUCLEAR MEDICINE,
MEDICAL FACULTY, CHARLES
UNIVERSITY, PRAGUE,
CZECHOSLOVAKIA.

10358 Dennis, B. R., Forster, R. A.,
Menzel, J. H., Thorpe, M. M.,
Smith, D. B.

**Mobile accelerator facility for
neutron interrogation and
nondestructive assay.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II, I-61–I-71,
Proceedings of the American
Nuclear Society National Topical
Meeting, April 19–21, 1971,
Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW
MEXICO.

10359 Wahlgren, M. A., Stewart, D. C.

**Evaluation of a ^{244}Cm –Be neutron
source for activation analysis.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II,
I-112–I-116, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19–21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS.

10360 Alvi, Z.M.

A ^{252}Cf focused neutron gun for

**activation of skin–tissue to
detect above–normal amounts of
sodium.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II,
II-61–II-66, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19–21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). KAISER–PERMANENTE
MEDICAL CENTER, LOS ANGELES,
CALIFORNIA.

10361 Hoffman, C. M., Pro, M. J.

**Practical applications and
limitations of forensic
activation analysis.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II,
II-67–II-70, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19–21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). U.S. TREASURY
DEPARTMENT, NATIONAL OFFICE
LABORATORY, ALCOHOL, TOBACCO AND
FIREARMS DIVISION, WASHINGTON,
D.C.

10362 Pillay, K. K. S., Thomas, C. C.,
Mahoney, G. F.

**The role of environmental
contamination in criminalistics:
A case history.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II,
II-71–II-76, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19–21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). WESTERN NEW YORK
NUCLEAR RESEARCH CENTER, BUFFALO,
N.Y.

10363 Vogt, J. R., Eichor, M. E., Mason,
R. E.

**State–wide training and service
program in forensic neutron
activation analysis.**

CONF-710402, *Neutron Sources and*

ACTIVATION ANALYSIS—ACCESSION NUMBERS

Applications, Vol. II,
II-77-II-80, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). UNIVERSITY OF
MISSOURI, COLUMBIA, MISSOURI.

1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). BATTELLE-NORTHWEST,
RICHLAND, WASHINGTON.

10364 Lukens, H. R., Schlesinger, H. L.

**Statistical interpretation of
trace element patterns in paper.**

CONF-710402, *Neutron Sources and
Applications*, Vol. II,
II-81-II-86, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). GULF RADIATION
TECHNOLOGY, SAN DIEGO,
CALIFORNIA.

10367 Rhodes, J. R.
**Radioisotope neutron activation
for on-stream process analysis.**
CONF-710402, *Neutron Sources and
Applications*, Vol. III,
IV-1-IV-10, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). COLUMBIA SCIENTIFIC
INDUSTRIES, AUSTIN, TEXAS.

10365 Noakes, J. E., Smithwick, G. A.,

Harding, J. L., Kirst, A.

**Undersea mineral analysis with
californium-252.**

CONF-710402, *Neutron Sources and
Applications*, Vol. III,
III-7-III-19, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). UNIVERSITY OF
GEORGIA, ATHENS, GEORGIA;
OCEANONICS, INC., HOUSTON, TEXAS
AND WESTINGHOUSE OCEAN RESEARCH
LABORATORY, SAN DIEGO,
CALIFORNIA.

10368 Semel, S., Helf, S.
**Use of a sealed tube neutron
generator for quality control in
explosives by fast neutron
activation analysis (FNAA).**

CONF-710402, *Neutron Sources and
Applications*, Vol. III,
IV-11-IV-17, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). FELTMAN RESEARCH
LABORATORY, EXPLOSIVES DIVISION,
PICATINNY ARSENAL, DOVER, N.J.

10366 Perkins, R. W., Haller, W. A.,

Rieck, H. G., Rancitelli, L. A.,

Wogman, N. A.

**Californium-252 neutron activation
for terrestrial, sea floor, and
possible planetary surface
analysis.**

CONF-710402, *Neutron Sources and
Applications*, Vol. III,
III-20-III-29, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,

10369 Duffey, D., Wiggins, P. F.,
Senftle, F. E.

**Application of neutron capture
gamma rays using a ²⁵²Cf neutron
source to industrial process
stream analysis.**

CONF-710402, *Neutron Sources and
Applications*, Vol. III,
IV-18-IV-29, Proceedings of the
American Nuclear Society National
Topical Meeting, April 19-21,
1971, Augusta, Georgia, DuPont,
Savannah River Laboratory, Aiken,
S.C. (April 1971).

(ENGLISH). UNIVERSITY OF
MARYLAND, COLLEGE PARK, MARYLAND;
U.S. NAVAL ACADEMY, ANNAPOLIS,
MARYLAND AND U.S. GEOLOGICAL
SURVEY, WASHINGTON, D.C.

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- 10370 Aron, S. J.
Fast process measurement for manganese in steels by neutron activation analysis.
 CONF-710402, *Neutron Sources and Applications*, Vol. III, IV-30-IV-39, Proceedings of the American Nuclear Society National Topical Meeting, April 19-21, 1971, Augusta, Georgia, DuPont, Savannah River Laboratory, Aiken, S.C. (April 1971).
 (ENGLISH). REPUBLIC STEEL CORPORATION, ELECTROMECHANICAL RESEARCH CENTER, NUCLEONICS DIVISION, CLEVELAND, OHIO.
- 10371 Parsignault, D. R., Wilson, H. H., Mineski, R., Blatt, S. L.
A prompt gamma-ray coal analysis system.
 CONF-710402, *Neutron Sources and Applications*, Vol. III, IV-40-IV-46, Proceedings of the American Nuclear Society National Topical Meeting, April 19-21, 1971, Augusta, Georgia, DuPont, Savannah River Laboratory, Aiken, S.C. (April 1971).
 (ENGLISH). AMERICAN SCIENCE AND ENGINEERING, CAMBRIDGE, MASSACHUSETTS AND DEPARTMENT OF PHYSICS, OHIO STATE UNIVERSITY, COLUMBUS, OHIO.
- 10372 Hoste, J., Op De Beeck, J., Gijbels, R., Adams, F., Van Den Winkel, P., De Soete, D.
Activation analysis.
Activation Analysis, 148p., Chemical Rubber Co. Press, Cleveland, Ohio (1971).
 (ENGLISH). UNIVERSITY OF GHENT, BELGIUM.
- 10373 Kruger, P.
Principles of activation analysis.
Principles of Activation Analysis, 529p., Kruger, P. (Ed.), John Wiley and Sons, Inc., New York (1971).
 (ENGLISH). DEPARTMENT OF CIVIL ENGINEERING, STANFORD UNIVERSITY.
- 10374 Industrial Heating
Improved accuracy in neutron activation analysis. Oxygen in steel determined rapidly by new procedures.
Ind. Heat., **36**, No. 7, 1260, 1262, 1264 (1969).
 (ENGLISH). USA.
- 10375 Ballaux, C.
Neutron activation analysis of high purity selenium.
 Thesis, State University of Ghent, 102p. (1969).
 (DUTCH). STATE UNIVERSITY OF GHENT, GHENT.
- 10376 Adam, L.
Possible application of $10^5 - 10^6$ n/sec cm² sources of thermal neutrons in geological and mining research.
Publ. Hung. Mining Res. Inst., No. 13, 243-256 (1970).
 (FRENCH) (ENGLISH, GERMAN AND RUSSIAN SUMMARIES). HUNGARY.
- 10377 Bellobono, I. R.
Determination of metallic impurities (copper, iron, cobalt, nickel) in zinc and zinc sulfate by neutron activation analysis.
Rend. Ist. Lomb. Sci. Lett. A, **104**, No. 4, 918-923 (1970).
 (ITALIAN) (ENGLISH SUMMARY). ISTITUTO DI CHIMICA FISICA DELL'UNIVERSITA DI MILANO.
- 10378 Augustson, R. H., Menlove, H. O., Walton, R. B., East, L. V., Evans, A. E., Krick, M. S.
Development of techniques for active and passive assay of fissionable materials.
Safeguards Techniques, Vol. II, 53-78, International Atomic Energy Agency, Vienna (1970).
 (ENGLISH). UNIVERSITY OF CALIFORNIA, LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.
- 10379 Erdey, L., Gimesi, O., Szabo, E., Csajka, M.
Determination of trace contaminants in hydrogenation catalysts by neutron activation

ACTIVATION ANALYSIS—ACCESSION NUMBERS

analysis.

Talanta, **17**, No. 12, 1157–1166
(1970).

(ENGLISH) (GERMAN AND FRENCH SUMMARIES). INSTITUTE FOR GENERAL AND ANALYTICAL CHEMISTRY OF THE TECHNICAL UNIVERSITY AND CENTRAL RESEARCH INSTITUTE FOR PHYSICS OF THE HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST, HUNGARY.

Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). DEPARTMENT OF METEOROLOGY AND OCEANOGRAPHY AND GREAT LAKES RESEARCH DIVISION, UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN.

10380 Silva, C. M.

Determination of bismuth in biological material by neutron activation.

IEA No. 245, 16p. (July 1971).
(SPANISH) (ENGLISH AND FRENCH SUMMARIES). DIVISAO DE RADIOQUIMICA, INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRASIL.

10384 Gordon, G. E., Zoller, W. H., Gladney, E. S., Jones, A. G.
Trace elements in the urban atmosphere.

Nuclear Methods in Environmental Research, 30–37, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). DEPARTMENT OF CHEMISTRY, UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND.

10381 Herr, W., Herpers, U., Michel, R., Abdel-Rassoul, A. A., Wolfle, R.

Search for rhenium isotopic anomalies in lunar surface material by neutron bombardment.

Proceedings of the Second Lunar Science Conference, **2**, 1337–1341, The M.I.T. Press (1971).

(ENGLISH). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT KOLN, GERMANY.

10385 Perkins, R. W., Rancitelli, L. A.
Nuclear techniques for trace element and radionuclide measurements in natural waters.

Nuclear Methods in Environmental Research, 47–61, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).

(ENGLISH). BATTELLE PACIFIC NORTHWEST LABORATORIES, RICHLAND, WASHINGTON.

10382 Herr, W., Herpers, U., Wolfle, R.
Spallogenic ^{53}Mn ($T \sim 2 \times 10^6$ y) in lunar surface material by neutron activation.

Proceedings of the Second Lunar Science Conference, **2**, 1797–1802, The M.I.T. Press (1971).

(ENGLISH). INSTITUT FUR KERNCHEMIE DER UNIVERSITAT KOLN UND INSTITUT FUR RADIOCHEMIE DER KFA JULICH, GERMANY.

10386 Lukens, H. R., Bryan, D. E., Hiatt, M. A.

Oil-slick identification certainties with the method of neutron activation analysis.

Nuclear Methods in Environmental Research, 62–71, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).

(ENGLISH). GULF RADIATION TECHNOLOGY, A DIVISION OF GULF ENERGY AND ENVIRONMENTAL SYSTEMS, SAN DIEGO, CALIFORNIA.

10383 Dams, R., Rahn, K. A., Nifong, G. D., Robbins, J. A., Winchester, J. W.

Nondestructive multi-element neutron activation analysis of air pollution particulates.

Nuclear Methods in Environmental Research, 8–15, Proceedings of American Nuclear Society Topical

10387 John, J.

Californium based system for the automated detection of heavy metals in inland waters.

Nuclear Methods in Environmental Research, 72–85, Proceedings of

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). GULF RADIATION TECHNOLOGY, SAN DIEGO, CALIFORNIA.
- 10388 Filby, R. H., Shah, K. R.
Mode of occurrence of trace elements in petroleum and relationship to oil-spill identification methods.
Nuclear Methods in Environmental Research, 86–96, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). TRACE ELEMENT LABORATORY, NUCLEAR RADIATION CENTER, WASHINGTON STATE UNIVERSITY.
- 10389 Wahlgren, M. A., Edgington, D. N., Rawlings, F. F.
Determination of selected trace elements in water samples using spark source mass spectroscopy and neutron activation analysis.
Nuclear Methods in Environmental Research, 97–103, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). ARGONNE NATIONAL LABORATORY, ARGONNE, ILLINOIS.
- 10390 Pedersen, K. B., Gileadi, A.
Activation analysis as used in a study of sedimentation.
Nuclear Methods in Environmental Research, 104–110, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). UNIVERSITY OF PUERTO RICO AND PUERTO RICO NUCLEAR CENTER.
- 10391 Mandler, J. W., Reed, J. H., Moler, R. B.
Oil slick identification utilizing charged particle activation techniques.
Nuclear Methods in Environmental Research, 111–116, Proceedings of
- American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). IIT RESEARCH INSTITUTE, CHICAGO, ILLINOIS.
- 10392 Kruger, P.
Nuclear methods in meteorology and hydrology.
Nuclear Methods in Environmental Research, 118–126, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). CIVIL ENGINEERING DEPARTMENT, STANFORD UNIVERSITY, STANFORD, CALIFORNIA.
- 10393 Lutz, G. J.
Determination of lead in environmental samples by photon activation analysis.
Nuclear Methods in Environmental Research, 144–149, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). ACTIVATION ANALYSIS SECTION, ANALYTICAL CHEMISTRY DIVISION, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
- 10394 O Toole, J. J., Clark, R. G., Malaby, K. L., Trauger, D. L.
Environmental trace element survey at a heavy metals refining site.
Nuclear Methods in Environmental Research, 172–185, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).
(ENGLISH). INSTITUTE FOR ATOMIC RESEARCH, DEPARTMENTS OF VETERINARY PATHOLOGY AND ZOOLOGY AND ENTOMOLOGY, IOWA STATE UNIVERSITY, AMES, IOWA.
- 10395 Jervis, R. E., Tiefenbach, B.
Trace mercury determinations in a variety of foods.
Nuclear Methods in Environmental Research, 188–196, Proceedings of American Nuclear Society Topical Meeting August 23–24, 1971, Columbia, Missouri (1971).

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(ENGLISH). DEPARTMENT OF
CHEMICAL ENGINEERING AND APPLIED
CHEMISTRY, UNIVERSITY OF TORONTO.

ENGINEERING EXPERIMENT STATION,
GEORGIA INSTITUTE OF TECHNOLOGY,
ATLANTA, GEORGIA.

10396 Bate, L. C.

**Determination of mercury in
biological samples by neutron
activation analysis.**

*Nuclear Methods in Environmental
Research*, 197–200, Proceedings of
American Nuclear Society Topical
Meeting August 23–24, 1971,
Columbia, Missouri (1971).

(ENGLISH). ANALYTICAL CHEMISTRY
DIVISION, OAK RIDGE NATIONAL
LABORATORY, OAK RIDGE, TENNESSEE.

10400 De Goeij, J. J. M.

**Determination of mercury in
samples from the Dutch
environment.**

*Nuclear Methods in Environmental
Research*, 226–237, Proceedings of
American Nuclear Society Topical
Meeting August 23–24, 1971,
Columbia, Missouri (1971).

(ENGLISH). INTERUNIVERSITY
REACTOR INSTITUTE, DELFT, THE
NETHERLANDS.

10397 Guinn, V. P., Kishore, R.

**Some new aspects of the neutron
activation analysis determination
of mercury in seafoods.**

*Nuclear Methods in Environmental
Research*, 201–204, Proceedings of
American Nuclear Society Topical
Meeting August 23–24, 1971,
Columbia, Missouri (1971).

(ENGLISH). DEPARTMENT OF
CHEMISTRY, UNIVERSITY OF
CALIFORNIA, IRVINE, CALIFORNIA.

10401 Bereznoi, T.

**Activation analysis of rare earth
elements.**

J. Radioanal. Chem., **9**, 81–100
(1971).

(ENGLISH). TUNGSRAM RESEARCH
LABORATORIES, BUDAPEST, HUNGARY.

10398 Kennedy, E. J., Ruch, R. R.,

Gluskoter, H. J., Shimp, N. F.

**Environmental studies of mercury
and other elements in coal and
lake sediments as determined by
neutron activation analysis.**

*Nuclear Methods in Environmental
Research*, 205–215, Proceedings of
American Nuclear Society Topical
Meeting August 23–24, 1971,
Columbia, Missouri (1971).

(ENGLISH). ILLINOIS STATE
GEOLOGICAL SURVEY, URBANA,
ILLINOIS.

10402 Turkstra, J., Smit, H. J., De Wet,
W. J.

**Non-destructive neutron activation
analysis of six South African
standard rock samples utilizing
high-resolution gamma
spectrometry.**

J. S. Afr. Chem. Inst., **24**,
113–125 (1971).

(ENGLISH) (AFRIKAAN SUMMARY).
CHEMISTRY DIVISION, ATOMIC ENERGY
BOARD, PRETORIA, SOUTH AFRICA.

10399 Mc Lain, M. E., Leddicotte, G. W.

**A critical look at the current
problems in mercury analyses.**

*Nuclear Methods in Environmental
Research*, 216–225, Proceedings of
American Nuclear Society Topical
Meeting August 23–24, 1971,
Columbia, Missouri (1971).

(ENGLISH). NUCLEAR AND
BIOLOGICAL SCIENCES DIVISION,

10403 Spitsyn, V. I., Kuzina, A. F.,

Tsarenko, A. F., Oblova, A. A.,
Balakhovskii, O. A., Kodochigov,
P. N., Glazunov, M. P., Kaimin,
I. V.

**Production of metallic technetium
and its physical investigation.**

Radiokhimiya, **12**, 617–621 (1970).

(RUSSIAN). RUSSIA.

10404 Giroux, J., Thomas, J. P., Tran,
M. D., Tousset, J.

**Influence of energy distribution
in charged particle activation
analysis.**

*Uses of Cyclotrons in Chemistry,
Metallurgy and Biology*, 319–327,

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- (1969).
(ROMANIAN) (RUSSIAN AND ENGLISH SUMMARIES). GEOLOGICAL INSTITUTE BUCHAREST, BUCHAREST, ROMANIA.
- 10405 Engelmann, C.
Contribution to the study of Be, B, C, N, O and F determination by p, ^3He and α activation.
Uses of Cyclotrons in Chemistry, Metallurgy and Biology, 328–340, Amphlett, C.B. (Ed.), London, Butterworth and Co. Ltd. (1970).
(ENGLISH). DEPARTEMENT D'ETUDES METALLURGIQUES, C.E.N. SACLAY, GIF SUR YVETTE, FRANCE.
- 10406 Krasnov, N. N., Dmitriev, P. P., Dmitrieva, S. P., Konstantinov, I. O., Molin, G. A.
Experimental data on the yields of ^{11}C , ^{13}N , ^{18}F isotopes used for the detection of carbon, nitrogen, oxygen and neighbouring light element impurities by means of activation analysis with different charged particles (p, d, ^3He , α).
Uses of Cyclotrons in Chemistry, Metallurgy and Biology, 341–353, Amphlett, C.B. (Ed.), London, Butterworth and Co. Ltd. (1970).
(ENGLISH). INSTITUTE OF PHYSICS AND POWER ENGINEERING, OBNINSK, USSR.
- 10407 Debrun, J. L., Barrandon, J. N., Albert, P.
Determination of vanadium and niobium by proton activation.
Uses of Cyclotrons in Chemistry, Metallurgy and Biology, 354–361, Amphlett, C.B. (Ed.), London, Butterworth and Co. Ltd. (1970).
(ENGLISH). C.N.R.S., CENTRE D'ETUDES DE CHIMIE METALLURGIQUE, VITRY-SUR-SEINE, FRANCE.
- 10408 Anastase, S., Cercasov, V.
Method for the determination of gold in rocks by neutron activation analysis.
An. Univ. Bucuresti, Ser. Stiint. Natur., Chim., 18, No. 1, 111–121
- 10409 Bibinov, S. A., Kaipov, R. L., Petrenko, V. D., Romanov, M. M., Khaidarov, A. A.
Use of nuclear radiation in analysis of substances.
Primenenie Yadernykh Izlucheni Dlya Analiza Veshchestva, 260p., Tashkent, Izdatelstvo Fan Uzbekskoi SSR (1970).
(RUSSIAN). RUSSIA.
- 10410 Meixner, C.
Tables of gamma ray energies for activation analysis.
Gammaenergietabellen zur Aktivierungsanalyse, 38, 233p., Thiemi-g-Tashchenbuecher (1970).
(GERMAN, ENGLISH AND FRENCH). ZENTRALINSTITUT FUR REAKTOREXPERIMENTE, JULICH, GERMANY.
- 10411 Sevryugova, N. N., Ionov, V. P., Atanov, I. G., Kudinova, A. A., Zhavoronkov, N. M.
Removal of metallic impurities from boron chloride and determination of their content by activation analysis.
Metody Poluch. Anal. Veshchestv Osoboi Chist., Tr. Vses. Konf. 1968, 64–70, Devyatykh, G. G. (Ed.), Nauka, Moscow, USSR (1970).
(RUSSIAN). RUSSIA.
- 10412 Kuznetsov, R. A.
Analytical possibilities of a betatron with intrachamber irradiation. I. H–Br elements.
Radiokhimiya, 12, No. 6, 908–910 (1970).
(RUSSIAN). RUSSIA.
- 10413 Kuznetsov, R. A.
Analytical possibilities of a betatron with intrachamber irradiation. II. Rb–U elements.
Radiokhimiya, 13, No. 3, 473–475

ACTIVATION ANALYSIS—ACCESSION NUMBERS

(1971).

(RUSSIAN). RUSSIA.

10414 Kuznetsov, R. A.

Analytical possibilities of a betatron with intrachamber irradiation. III. Sensitivity and selectivity.

Radiokhimiya, 13, No. 3, 475-478

(1971).

(RUSSIAN). RUSSIA.

10415 Artyukhin, P. I., Startseva, E.

A., Silvanovich, Y. A., Abakumov, D. N., Mityakin, Y. L., Mokhnachev, A. G.

Preparation of silver, platinum, and gold nitrate solutions using an alternating current.

Radiokhimiya, 13, No. 4, 660

(1971).

(RUSSIAN). RUSSIA.

10416 Dorfler, G., Kiesl, W.

The Kayakent meteorite.

Z. Chemie der Erde, 30, 71-75

(1971).

(GERMAN). ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.

10417 Hecht, F., Kiesl, W.

Cosmochemical meteorite investigations by neutron activation analysis.

Z. Chemie der Erde, 30, 145-155

(1971).

(GERMAN). ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN.

10418 Gruber, E., Hecht, F., Sorantin, H.

Activation analytical studies of standardized iron alloys. II.

Quantitative determination of copper, arsenic, antimony and lanthanum.

Mikrochim. Acta, No. 5, 794-799

(1971).

(GERMAN) (ENGLISH SUMMARY). ANALYTISCHES INSTITUT DER UNIVERSITAT WIEN UND CHEMIE INSTITUT DER OSTERREICHISCHEN STUDIENGESELLSCHAFT FUR ATOMENERGIE GES.M.B.H., REAKTORZENTRUM SEIBERSDORF.

10419 Mills, W. R., Givens, W. W.,

Caldwell, R. L.

Water analysis by a combination neutron experiment.

Geological Problems Lunar

Planetary Research, 185-210,

Green, J. (Ed.), Proceedings AAS

(American Astronautical

Society)/IAP (International

Association Planetology)

Symposium, 1968, American

Astronautical Society, Tarzana,

California (1971).

(ENGLISH). MOBIL RESEARCH AND DEVELOPMENT CORPORATION, DALLAS, TEXAS.

10420 Bibby, D. M., Rasmussen, S. E.

Reactor neutron flux monitoring with iron foils.

Radiochem. Radioanal. Letters, 9,

No. 1, 1-8 (1972).

(ENGLISH). NATIONAL INSTITUTE FOR METALLURGY AND NUCLEAR PHYSICS RESEARCH UNIT, UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, SOUTH AFRICA.

10421 Tejam, B. M., Haldar, B. C.

N-benzoyl-N-phenylhydroxylamine as a substoichiometric extractant in activation analysis, II.

Determination of copper.

Radiochem. Radioanal. Letters, 9,

No. 1, 19-26 (1972).

(ENGLISH). INORGANIC AND NUCLEAR CHEMISTRY LABORATORY, INSTITUTE OF SCIENCE, BOMBAY, INDIA.

10422 Guichard, F., Jaffrezic, H.,

Deschamps, N., Treuil, M.

Neutron activation analysis of some lanthanides in barite.

Radiochem. Radioanal. Letters, 9,

No. 1, 35-43 (1972).

(FRENCH) (ENGLISH SUMMARY). LABORATOIRE DE GEOLOGIE APPLIQUEE FACULTE DES SCIENCES, PARIS, FRANCE.

10423 Vobecky, M., Frana, J., Randa, Z.,

Benada, J., Kuncir, J.

Instrumental neutron activation analysis of submilligram samples of lunar soil.

Radiochem. Radioanal. Letters, 9,

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- No. 1, 55–62 (1972).
 (ENGLISH). NUCLEAR RESEARCH
 INSTITUTE, CZECHOSLOVAK ACADEMY
 OF SCIENCES, REZ, PRAGUE,
 CZECHOSLOVAKIA.
- 10424 Tejam, B. M., Haldar, B. C.
**N-benzoyl-N-phenylhydroxylamine as
 a substoichiometric extractant in
 activation analysis, III.
 Determination of iron.**
Radiochem. Radioanal. Letters, **9**,
 No. 2, 77–84 (1972).
 (ENGLISH). INORGANIC AND NUCLEAR
 CHEMISTRY LABORATORY, INSTITUTE
 OF SCIENCE, BOMBAY, INDIA.
- 10425 Dugain, F., Michaut, C., Pillon,
 R.
**Determination of the oxygen
 content of aluminium by 14 MeV
 neutron activation recoil from
 the pneumatic tube.**
Radiochem. Radioanal. Letters, **9**,
 No. 2, 119–125 (1972).
 (ENGLISH). CENTRE DE RECHERCHES
 PECHINEY, VOREPPE, FRANCE.
- 10426 Janczyszyn, J., Taczanowski, S.
**On the neutron flux density
 distribution around the neutron
 generator target.**
Radiochem. Radioanal. Letters, **9**,
 No. 2, 143–145 (1972).
 (ENGLISH). INSTITUTE OF NUCLEAR
 TECHNIQUES, ACADEMY OF MINING AND
 METALLURGY, CRACOW, POLAND.
- 10427 Thomas, J. P., Schweikert, E. A.
**Application of a Cerenkov detector
 in charged particle activation
 analysis.**
Radiochem. Radioanal. Letters, **9**,
 No. 3, 155–168 (1972).
 (ENGLISH). ACTIVATION ANALYSIS
 RESEARCH LABORATORY AND
 DEPARTMENT OF CHEMISTRY, TEXAS A
 AND M UNIVERSITY, COLLEGE
 STATION, TEXAS.
- 10428 Hayward, C. C., Oldham, G., Ware,
 A. R.
**On-stream 14 MeV neutron
 activation analysis using
 ultra-short half-life products.**
Radiochem. Radioanal. Letters, **9**,
 No. 3, 179–187 (1972).
 (ENGLISH). DEPARTMENT OF
 CHEMISTRY, LOUGHBOROUGH
 UNIVERSITY OF TECHNOLOGY,
 LOUGHBOROUGH, ENGLAND.
- 10429 Tejam, B. M., Haldar, B. C.
**N-benzoyl-N-phenylhydroxylamine as
 a substoichiometric extractant in
 activation analysis IV.
 Determination of antimony.**
Radiochem. Radioanal. Letters, **9**,
 No. 3, 189–197 (1972).
 (ENGLISH). INORGANIC AND NUCLEAR
 CHEMISTRY LABORATORY, INSTITUTE
 OF SCIENCE, BOMBAY, INDIA.
- 10430 Nadkarni, R. A., Haldar, B. C.
**N-benzoyl-N-phenylhydroxylamine as
 a substoichiometric extractant in
 activation analysis, V.
 Determination of lanthanum in
 rocks.**
Radiochem. Radioanal. Letters, **9**,
 No. 3, 205–212 (1972).
 (ENGLISH). INORGANIC AND NUCLEAR
 CHEMISTRY LABORATORY, INSTITUTE
 OF SCIENCE, BOMBAY, INDIA.
- 10431 Zold, E., Toth, G.
**Testing of ascorbic acid by
 activation analysis.**
Radiochem. Radioanal. Letters, **9**,
 No. 3, 225–230 (1972).
 (ENGLISH). DEPARTMENT OF
 CHEMICAL TECHNOLOGY, TECHNICAL
 UNIVERSITY, BUDAPEST, HUNGARY.
- 10432 Carpenter, B. S.
**Determination of trace
 concentration of boron and
 uranium in glass by the nuclear
 track technique.**
Anal. Chem., **44**, 600–602 (March
 1972).
 (ENGLISH). ACTIVATION ANALYSIS
 SECTION, ANALYTICAL CHEMISTRY
 DIVISION, NATIONAL BUREAU OF
 STANDARDS, WASHINGTON, D.C.
- 10433 Mantel, M., Amiel, S.
**Application of high resolution
 x-ray spectrometry to activation
 analysis.**
Anal. Chem., **44**, 548–553 (March
 1972).
 (ENGLISH). NUCLEAR CHEMISTRY DE-
 PARTMENT, SOREQ NUCLEAR RESEARCH
 CENTRE, YAVNE, ISRAEL.

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						9939	9944	9946	10011	10022	
						10026	10033	10050	10100	10101	
						10106	10110	10116	10126	10150	
						10156	10170	10171	10175	10180	
						10201	10207	10214	10236	10250	
						10269	10273	10318	10331	10339	
						10383	10390	10391	10403	10431	
98	104	113	130	140		Antimony					
141	175	205	301	382		9	12	21	54	56	
384	393	419	423	433		83	103	141	149	166	
455	471	491	509	518		167	174	183	205	215	
555	567	580	605	607		231	246	252	255	279	
612	625	635	637	641		322	323	419	454	460	
665	695	702	711	752		469	473	509	544	572	
760	810	821	824	834		581	606	614	619	625	
845	848	849	850	851		649	662	674	688	702	
895	897	903	941	961		704	735	760	767	775	
966	974	1097	1138	1140		778	799	803	805	806	
1161	1193	1213	1220	1226		845	870	879	886	888	
1263	1334	1340	1386	1414		894	899	927	942	945	
1419	1420	1442	1456	1460		950	977	992	997	1027	
1466	1471	1492	1558	1559		1030	1034	1063	1064	1068	
1611	1616	1642	1709	1710		1089	1095	1118	1123	1124	
1721	1725	1746	1785	1793		1133	1134	1135	1138	1146	
1794	1798	1813	1857	1888		1166	1174	1191	1193	1223	
1889	1896	1897	1898	1912		1226	1231	1245	1246	1254	
1965	2144	2306	2498	2499		1272	1275	1286	1299	1300	
2504	2507	2526	2550	2662		1314	1338	1344	1349	1354	
2689	2699	2751	2764	2766		1371	1412	1434	1438	1441	
2931	2933	2940	2941	2956		1456	1466	1469	1471	1472	
3075	3355	3365	3369	3370		1477	1492	1500	1533	1542	
3384	3461	3727	3753	3788		1548	1564	1571	1587	1603	
3790	3793	3976	4191	4193		1613	1616	1648	1672	1693	
4216	4231	4232	4258	4286		1699	1700	1710	1715	1723	
4293	5326	5383	5384	5591		1732	1736	1737	1746	1766	
5727	5759	5957	5970	5978		1797	1825	1848	1858	1894	
6056	6081	6204	6301	6352		1907	1920	1977	2144	2296	
6376	6407	6453	6583	6733		2308	2369	2386	2403	2430	
6734	6845	6922	6930	6956		2464	2493	2523	2548	2550	
6963	6967	6968	6970	6977		2601	2612	2639	2688	2689	
7011	7077	7082	7101	7111		2694	2699	2739	2766	2769	
7123	7171	7229	7234	7235		2776	2801	2819	2852	2931	
7293	7301	7302	7303	7308		2938	2950	2999	3065	3352	
7320	7338	7342	7354	7403		3383	3418	3487	3514	3723	
7404	7416	7424	7460	7878		3730	3732	3759	3785	3808	
7896	7901	7902	7930	7938		3949	3957	3988	4216	4232	
7961	7978	8007	8017	8116		4253	4268	4286	4290	4293	
8139	8240	8241	8247	8299		4300	4308	4328	4329	4381	
8331	8374	8375	8390	8421		5326	5344	5390	5399	5438	
8810	8850	8885	8890	8911		5499	5619	5725	5729	5750	
8926	8930	9002	9012	9051		5771	5785	5787	5793	5936	
9065	9088	9134	9166	9174		5944	5960	5977	5981	5991	
9214	9230	9250	9263	9269		6003	6008	6012	6037	6199	
9287	9301	9330	9435	9436		6226	6307	6313	6323	6326	
9437	9459	9472	9473	9510		6375	6376	6394	6397	6401	
9526	9537	9543	9547	9583							
9627	9679	9695	9698	9704							
9707	9733	9734	9735	9736							
9746	9762	9804	9812	9823							
9865	9877	9896	9903	9937							

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Antimony (continued)

Arsenic (continued)

6406	6407	6451	6572	6575	351	370	371	378	409
6587	6702	6727	6839	6849	419	424	431	451	465
6923	6929	6930	6942	6943	469	473	474	475	476
6947	6949	6957	6963	6965	481	502	504	509	541
6972	6993	6999	7003	7004	544	551	565	571	572
7077	7086	7116	7129	7135	584	593	606	625	640
7164	7167	7211	7212	7218	649	659	662	674	686
7223	7254	7281	7283	7360	688	689	702	704	706
7369	7373	7386	7393	7407	707	758	760	767	775
7868	7923	7935	7938	7948	778	799	802	804	805
7949	7959	7983	7996	8017	810	838	845	870	871
8075	8100	8111	8114	8139	879	888	892	894	896
8140	8141	8143	8145	8146	902	911	944	945	970
8147	8148	8155	8187	8200	985	992	997	1063	1064
8253	8331	8346	8347	8357	1068	1069	1100	1118	1133
8358	8362	8382	8804	8827	1134	1135	1142	1146	1153
8836	8837	8847	9012	9012	1166	1171	1174	1177	1191
9051	9052	9063	9066	9081	1192	1193	1223	1225	1245
9095	9118	9159	9168	9202	1246	1272	1275	1288	1299
9219	9237	9244	9256	9270	1300	1314	1344	1354	1373
9276	9287	9317	9327	9336	1412	1441	1442	1446	1469
9338	9351	9353	9356	9379	1471	1473	1477	1533	1542
9418	9436	9459	9469	9548	1548	1588	1603	1613	1616
9572	9573	9606	9619	9641	1617	1628	1648	1649	1665
9643	9654	9657	9659	9723	1672	1693	1699	1710	1725
9724	9754	9776	9777	9779	1727	1728	1734	1737	1746
9807	9814	9817	9832	9835	1749	1760	1770	1797	1848
9861	9873	9882	9892	9904	1862	1894	1907	1920	1928
9913	9922	9938	9939	9945	1965	1976	2296	2308	2333
9946	9968	9995	9996	10034	2369	2403	2495	2497	2508
10036	10070	10093	10110	10152	2523	2548	2550	2570	2619
10184	10188	10194	10204	10207	2638	2639	2640	2688	2689
10209	10229	10230	10234	10236	2690	2699	2707	2717	2719
10269	10272	10383	10388	10394	2721	2769	2773	2776	2795
10418	10429				2801	2819	2852	2871	2926
					2942	2943	2954	2958	2999
					3098	3350	3383	3483	3514
					3713	3725	3726	3730	3731
					3748	3791	3808	3993	4232
					4253	4268	4269	4285	4319
					5336	5344	5349	5358	5385
					5415	5428	5438	5499	5510
					5619	5771	5785	5793	5851
					5864	5926	5931	5944	5983
					5991	6003	6008	6023	6037
					6039	6040	6052	6226	6307
					6323	6353	6376	6383	6394
					6397	6401	6407	6572	6575
					6587	6674	6697	6831	6832
					6851	6924	6929	6941	6942
					6943	6944	6949	6954	6957
					6965	6972	6993	7003	7111
					7125	7135	7154	7164	7167
					7211	7218	7222	7223	7232
					7242	7254	7332	7360	7393
					7407	7460	7868	7870	7920
					7938	7959	7983	8075	8123

Argon

54	55	121	122	268
290	354	419	493	529
670	683	977	1004	1226
1345	1416	1539	1719	1891
1924	2731	3081	3483	4198
4224	4278	5295	5449	6386
6389	6390	6399	7169	8151
8912	8964	8968	8994	9087
9366	9729			

Arsenic

4	5	22	54	55
56	103	116	124	134
140	141	149	154	165
166	167	172	174	189
193	194	198	205	215
242	245	246	248	255
270	290	309	310	328

ACTIVATION ANALYSIS – ELEMENT DETERMINED

Arsenic (continued)

8145	8154	8163	8187	8193
8245	8346	8347	8357	8362
8377	8382	8392	8804	8834
8901	8967	9012	9019	9030
9063	9066	9079	9116	9118
9159	9164	9168	9209	9215
9219	9220	9236	9237	9244
9256	9258	9261	9270	9317
9327	9332	9353	9354	9355
9356	9418	9572	9619	9638
9643	9654	9657	9659	9723
9724	9742	9744	9746	9754
9776	9799	9802	9807	9835
9861	9913	9927	9937	9944
9946	9947	9952	9965	9968
9996	9999	10034	10036	10057
10070	10093	10099	10106	10110
10156	10184	10194	10196	10207
10234	10236	10269	10383	10388
10394	10403	10418		

Barium (continued)

10229	10236	10269	10321	10332
10402				

Beryllium

169	170	184	185	201
380	383	455	479	554
669	855	908	978	983
1065	1081	1082	1083	1136
1160	1175	1178	1270	1280
1435	1609	1637	1861	1871
2318	2777	3072	3767	4193
5522	6056	6344	6368	7460
7862	7875	7994	8049	8928
9376	9411	9592	9850	9910
10039	10148	10199	10336	

Bismuth

103	141	146	166	167
255	411	419	509	688
697	760	879	894	1121
1124	1212	1354	1477	1613
1699	2550	3464	3793	5320
5344	5381	5398	6226	6323
6696	6972	7460	8341	8342
8807	8815	8869	9474	9573
9641	9728	9872	9916	9968
9999	10080	10092	10218	10380

Boron

82	144	181	201	216
333	335	382	455	495
497	530	791	855	904
905	1013	1091	1280	1312
1393	1546	1547	1561	1618
1787	1821	1823	1985	2251
2298	2498	2661	2712	2987
3059	3126	3361	3376	3466
3767	3811	3962	3976	4193
4211	5332	5408	5429	5566
5756	5779	5854	5919	5932
5933	6056	6344	6367	6580
7240	7258	7285	7286	7321
7361	7460	7863	7866	7875
7905	7924	8395	8412	8810
8899	9291	9292	9307	9447
9506	9575	9577	9616	9694
9745	9769	9801	9970	10039
10047	10067	10101	10193	10199
10257	10259	10339	10405	10432

Bromine

23	54	55	56	62
68	100	117	126	205

Barium

54	55	56	67	68
183	189	209	214	217
290	326	423	483	484
485	504	588	614	631
635	676	686	688	704
705	708	723	760	810
815	824	845	879	966
1014	1027	1034	1045	1086
1118	1134	1150	1188	1190
1191	1193	1212	1226	1281
1334	1340	1361	1412	1597
1670	1699	1710	1725	1727
1738	1797	1815	1825	1890
1896	1920	1973	2308	2464
2474	2498	2523	2550	2638
2639	2676	2689	2717	2776
2804	2819	2852	2965	2999
3355	3383	3483	3775	3960
3988	4214	4263	5500	5619
5785	5936	5977	5991	6002
6067	6227	6301	6376	6442
6574	6584	6729	6822	6854
6939	6947	6951	6962	6963
7004	7164	7168	7217	7254
7315	7316	7360	7938	7948
7959	8088	8118	8156	8200
8235	8331	8374	8836	8911
8914	8915	9017	9033	9086
9205	9276	9279	9300	9398
9459	9473	9522	9543	9548
9606	9629	9641	9659	9661
9734	9735	9804	9835	9846
9848	9876	9946	10076	10093
10100	10101	10123	10184	10214

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Bromine (continued)

Cadmium (continued)

290	328	347	437	442
504	539	602	625	631
635	641	659	686	688
697	702	704	706	714
760	810	824	827	829
830	851	888	933	934
942	977	1012	1055	1072
1086	1096	1118	1134	1208
1226	1266	1412	1419	1433
1462	1472	1479	1480	1492
1514	1569	1572	1577	1606
1617	1633	1709	1710	1736
1737	1746	1797	1848	1870
1874	1920	1964	2308	2347
2403	2508	2509	2548	2550
2614	2619	2638	2639	2689
2693	2694	2717	2730	2766
2776	2819	2852	2871	2873
2991	2999	3059	3101	3360
3365	3483	3708	3716	3791
3808	4194	4214	4254	4285
4329	5370	5390	5397	5510
5714	5718	5749	5751	5771
5775	5785	5870	5920	5924
5925	5929	5948	5975	5977
5995	6001	6012	6017	6023
6037	6055	6058	6085	6304
6307	6321	6359	6361	6362
6363	6364	6365	6375	6575
6584	6673	6687	6697	6831
6842	6852	6853	6858	6921
6922	6930	6931	6941	6943
6953	6965	6995	7077	7123
7125	7129	7195	7211	7227
7242	7243	7365	7386	7389
7393	7893	7901	7911	7938
7952	7959	7983	7996	8017
8024	8054	8130	8139	8143
8145	8146	8147	8148	8183
8236	8303	8331	8338	8390
8827	8834	8885	8918	9004
9012	9031	9032	9040	9051
9066	9083	9095	9105	9107
9108	9179	9276	9318	9357
9418	9428	9474	9505	9568
9619	9623	9659	9694	9695
9701	9754	9817	9914	9916
9932	9937	9946	9952	9961
9962	10050	10070	10092	10093
10097	10116	10144	10156	10158
10170	10184	10201	10204	10207
10234	10268	10289	10307	10346
10383	10411			

166	167	174	180	255
328	416	419	508	509
522	535	606	631	662
674	688	697	704	710
713	790	799	815	870
879	894	968	1006	1014
1042	1045	1063	1080	1088
1089	1113	1118	1123	1134
1150	1191	1240	1246	1277
1320	1332	1334	1340	1344
1354	1412	1441	1442	1469
1471	1472	1477	1478	1584
1603	1614	1634	1655	1699
1703	1709	1710	1725	1766
1797	1800	1832	1856	1920
2308	2369	2508	2523	2550
2639	2654	2676	2689	2718
2769	2776	2819	2852	2871
2999	3376	3382	3383	3808
3811	3949	3964	4214	4267
5307	5325	5345	5369	5619
5698	5703	5779	5785	5922
5944	5977	5991	6202	6226
6309	6323	6574	6575	6584
6712	6854	6923	6933	7004
7116	7164	7166	7212	7226
7246	7281	7315	7362	7389
7407	7934	7959	8086	8088
8154	8193	8200	8202	8253
8332	8376	8836	8889	9033
9063	9102	9159	9219	9256
9286	9300	9398	9409	9435
9455	9474	9536	9673	9726
9728	9835	9872	9916	9947
9960	9968	10002	10005	10037
10060	10070	10092	10100	10150
10156	10172	10217	10269	10375

Calcium

22	54	56	103	141
155	166	167	174	205
328	423	442	495	504
509	529	640	652	673
674	688	699	704	708
714	760	815	829	830
848	852	879	1045	1086
1087	1089	1118	1124	1134
1159	1166	1193	1247	1281
1292	1354	1362	1371	1457
1466	1559	1611	1699	1706
1709	1710	1726	1738	1766
1782	1797	1800	1806	1818
1843	1857	1872	1917	1920
1975	2308	2323	2422	2523
2550	2618	2638	2639	2687
2689	2737	2751	2776	2789

Cadmium

9	80	82	103	141
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ACTIVATION ANALYSIS—ELEMENT DETERMINED

Calcium (continued)

2819	2852	2871	2945	2963
2999	3383	3793	4193	4258
4329	5384	5386	5390	5771
5785	5981	6004	6010	6014
6044	6067	6073	6081	6307
6309	6376	6574	6582	6675
6683	6712	6734	6827	6933
6936	6939	6963	6965	6975
6982	7004	7013	7102	7129
7164	7168	7188	7246	7250
7254	7316	7318	7338	7353
7360	7403	7407	7426	7460
7938	7948	7968	8012	8054
8088	8116	8159	8200	8201
8240	8250	8253	8299	8331
8823	8834	8861	8877	8900
8911	8964	9012	9026	9095
9230	9245	9269	9352	9395
9428	9435	9459	9473	9518
9543	9547	9550	9568	9581
9596	9599	9610	9627	9659
9678	9689	9694	9734	9739
9749	9761	9817	9822	9823
9835	9848	9849	9874	9937
9938	10041	10100	10101	10107
10116	10121	10151	10156	10176
10180	10184	10206	10207	10214
10234	10236	10269	10276	10280
10337	10383	10388	10402	

Carbon (continued)

8276	8303	8387	8395	8801
8810	8846	8859	8863	8894
8916	9074	9075	9113	9114
9232	9277	9335	9337	9433
9439	9496	9593	9625	9670
9708	9745	9763	9825	9899
9988	9992	10024	10039	10165
10182	10199	10223	10235	10270
10405	10406			

Cerium

103	115	141	267	439
546	588	676	688	704
705	767	824	896	1042
1134	1226	1412	1710	1797
1835	1920	1945	1957	1978
2308	2474	2498	2639	2689
2694	2776	2819	2836	2852
2945	2999	3395	3766	3780
3949	5308	5369	5771	5785
5936	6295	6371	6442	6574
6822	6923	6950	6951	6965
6999	7021	7148	7254	7333
7360	7416	7884	7938	7959
8121	8141	8239	8317	8331
8836	8980	9012	9017	9051
9085	9456	9459	9641	9679
9734	9846	9848	9873	9938
9984	10076	10099	10101	10111
10156	10184	10269	10332	10345
10383	10402	10428		

Californium

822

Carbon

4	8	29	45	46
49	105	113	118	119
201	351	401	417	423
455	497	498	578	623
637	688	703	704	744
767	811	814	913	1026
1065	1219	1263	1312	1414
1560	1599	1604	1646	1778
1798	1816	1823	1831	1837
1849	1889	1898	1951	2298
2495	2504	2505	2550	2554
2652	2661	2933	2948	2949
2965	3070	3077	3727	3753
3976	3977	4193	4209	4211
4226	4386	5238	5442	5621
5769	5954	6004	6339	6581
6582	6589	6593	6680	6681
6736	6742	6752	7009	7011
7015	7017	7018	7019	7162
7200	7213	7230	7248	7307
7322	7412	8034	8037	8206

Cesium

79	93	96	103	138
166	167	300	328	433
460	469	477	504	588
614	676	688	705	790
810	815	879	999	1027
1042	1045	1089	1134	1193
1222	1226	1265	1412	1449
1466	1477	1563	1699	1710
1727	1736	1761	1766	1797
1812	1897	1920	1973	2308
2508	2523	2548	2638	2639
2689	2776	2819	2852	2871
2931	2989	2999	3375	3383
4310	4381	5341	5369	5500
5619	5771	5785	5788	5934
5936	6012	6016	6037	6057
6359	6375	6376	6379	6442
6574	6724	6930	6939	6941
6951	6957	6965	6972	6994
7004	7077	7125	7152	7164
7165	7196	7887	7935	7937
7938	7948	7959	7983	8139

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Cesium (continued)

8140	8143	8144	8145	8146
8147	8148	8200	8253	8254
8331	8339	8834	8837	8847
8967	8980	8989	9005	9017
9051	9066	9095	9118	9276
9317	9343	9418	9435	9459
9464	9474	9532	9534	9562
9619	9641	9651	9659	9679
9684	9754	9807	9817	9826
9835	9837	9846	9848	9873
9916	10036	10056	10076	10087
10092	10093	10100	10101	10156
10184	10204	10234	10236	10263
10269	10278	10332	10402	

Chlorine

23	31	32	35	37
44	48	54	55	56
62	68	81	82	117
141	155	205	260	290
291	328	419	437	442
588	591	602	625	635
637	641	652	676	686
688	697	699	702	704
705	714	732	760	777
824	829	830	845	849
851	871	887	895	921
932	933	941	942	966
977	992	1010	1061	1086
1138	1193	1200	1208	1217
1226	1263	1266	1320	1331
1442	1456	1477	1492	1520
1539	1569	1595	1617	1670
1689	1709	1710	1723	1725
1738	1746	1764	1772	1819
1843	1874	1902	1913	1971
2141	2148	2347	2422	2498
2508	2550	2614	2673	2689
2693	2701	2758	2766	2775
2871	2873	2930	2965	2981
3101	3355	3360	3483	3708
3736	3752	3778	3791	4191
4193	4195	4258	4285	4296
4299	4327	5386	5390	5397
5510	5718	5721	5751	5924
5948	6011	6014	6017	6055
6056	6063	6085	6212	6331
6361	6362	6364	6365	6446
6679	6688	6690	6735	6827
6842	6852	6921	6922	6930
6951	6953	7004	7026	7077
7092	7102	7123	7129	7172
7176	7227	7232	7240	7243
7316	7338	7365	7373	7380
7388	7399	7403	7880	7893
7898	7901	7902	7919	7938

Chlorine (continued)

7952	8017	8054	8124	8130
8139	8200	8236	8303	8308
8331	8338	8345	8351	8359
8363	8384	8390	8393	8891
8965	9004	9012	9031	9040
9051	9056	9107	9108	9134
9179	9230	9322	9324	9325
9346	9357	9371	9395	9407
9412	9446	9463	9547	9568
9579	9583	9615	9627	9659
9694	9695	9701	9749	9761
9765	9785	9789	9822	9823
9825	9937	9946	9962	9965
9995	10065	10093	10097	10101
10116	10144	10156	10158	10170
10201	10268	10269	10276	10383
10428				

Chromium

22	39	97	103	126
140	141	166	174	205
230	252	291	328	371
419	433	460	469	482
508	509	614	625	637
640	641	667	674	688
706	712	716	718	726
735	741	760	767	789
806	815	879	888	920
942	977	985	987	989
1030	1042	1118	1124	1134
1138	1165	1211	1226	1245
1247	1251	1254	1255	1263
1275	1277	1293	1333	1349
1412	1434	1436	1442	1456
1471	1472	1477	1492	1512
1564	1614	1649	1699	1707
1709	1710	1717	1723	1725
1736	1737	1760	1786	1795
1797	1825	1832	1833	1844
1856	1897	1920	1965	2296
2306	2308	2430	2473	2498
2508	2523	2548	2559	2597
2601	2639	2654	2662	2673
2689	2690	2717	2721	2735
2739	2753	2766	2769	2776
2819	2846	2852	2870	2871
2882	2950	2999	3005	3383
3384	3470	3723	3791	3957
3964	3988	4192	4216	4253
4310	5326	5343	5350	5369
5390	5438	5448	5499	5500
5581	5619	5728	5771	5785
5788	5808	5936	5941	5977
6013	6037	6199	6226	6359
6407	6442	6451	6574	6692
6702	6715	6720	6743	6754

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Chromium (continued)

6823	6844	6846	6849	6923
6924	6930	6931	6941	6943
6947	6950	6951	6956	6957
6963	6965	6977	6999	7002
7004	7036	7077	7082	7111
7125	7129	7145	7154	7164
7166	7188	7212	7232	7243
7254	7281	7283	7304	7306
7316	7333	7355	7360	7375
7391	7393	7407	7408	7416
7422	7425	7898	7914	7934
7935	7937	7938	7948	7983
8017	8075	8085	8088	8139
8141	8143	8145	8146	8147
8148	8156	8196	8200	8235
8239	8310	8331	8388	8834
8836	8847	8880	8964	8983
9005	9012	9017	9051	9052
9066	9095	9098	9152	9174
9219	9250	9256	9269	9276
9287	9301	9317	9327	9409
9415	9418	9435	9458	9459
9464	9466	9473	9526	9534
9543	9548	9562	9572	9619
9621	9627	9633	9659	9679
9695	9723	9734	9741	9744
9746	9754	9771	9802	9807
9812	9817	9835	9846	9848
9849	9861	9861	9873	9904
9915	9938	9939	9945	9995
10037	10050	10070	10093	10099
10100	10101	10104	10110	10125
10127	10135	10137	10156	10163
10172	10178	10184	10188	10194
10201	10204	10207	10234	10236
10263	10269	10280	10305	10321
10332	10334	10340	10343	10375
10383	10388	10394		

Cobalt (continued)

941	942	977	994	1009
1027	1042	1045	1088	1094
1095	1097	1098	1099	1118
1123	1124	1129	1134	1138
1165	1167	1171	1172	1183
1190	1193	1193	1204	1211
1226	1231	1247	1251	1254
1262	1263	1273	1277	1293
1313	1321	1344	1349	1354
1371	1387	1406	1411	1412
1426	1434	1438	1441	1442
1443	1454	1456	1466	1471
1472	1477	1492	1512	1515
1541	1564	1614	1644	1699
1707	1709	1710	1717	1723
1725	1727	1729	1741	1749
1760	1785	1797	1813	1817
1825	1827	1832	1833	1856
1860	1897	1920	1965	2036
2296	2306	2308	2430	2447
2495	2508	2523	2548	2550
2578	2601	2638	2639	2640
2654	2658	2689	2690	2707
2707	2717	2718	2723	2725
2735	2739	2744	2752	2766
2769	2776	2819	2846	2852
2870	2871	2876	2882	2931
2950	2957	2999	3005	3383
3388	3418	3470	3661	3713
3716	3730	3731	3740	3810
3955	3957	3964	4153	4153
4264	4285	4308	4315	4317
4328	4381	5336	5343	5345
5369	5438	5448	5510	5619
5697	5703	5728	5759	5771
5785	5788	5808	5936	5941
5955	5967	5977	5981	6012
6016	6037	6067	6199	6202
6203	6226	6307	6309	6323
6348	6356	6375	6383	6442
6444	6451	6574	6587	6712
6715	6716	6724	6754	6755
6923	6924	6929	6930	6933
6941	6943	6950	6957	6963
6965	6966	6969	6972	6981
6999	7004	7077	7080	7082
7090	7094	7111	7125	7135
7137	7145	7152	7154	7164
7166	7197	7211	7212	7226
7235	7243	7246	7254	7260
7281	7310	7311	7326	7333
7360	7365	7371	7393	7416
7424	7865	7885	7934	7935
7937	7938	7978	7983	7988
8017	8062	8080	8085	8088
8139	8140	8141	8143	8144
8145	8146	8147	8148	8154

Cobalt

4	5	13	47	80
83	103	124	130	138
140	141	166	167	174
205	246	252	254	263
270	328	352	356	390
419	428	433	460	462
470	482	502	504	509
513	531	588	594	614
616	620	625	635	637
641	662	667	674	676
688	697	704	705	717
724	726	729	735	741
760	767	789	790	799
804	810	813	815	823
834	852	870	879	883
892	906	915	920	940

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Cobalt (continued)

8196	8200	8235	8239	8253
8254	8310	8311	8331	8823
8834	8836	8847	8872	8964
8987	8988	9012	9017	9051
9052	9066	9086	9095	9098
9118	9152	9219	9227	9245
9256	9257	9269	9270	9276
9287	9317	9327	9356	9381
9415	9418	9435	9455	9459
9464	9473	9474	9530	9532
9534	9543	9548	9562	9572
9619	9627	9633	9641	9659
9662	9679	9695	9700	9726
9734	9741	9744	9746	9754
9771	9797	9807	9811	9814
9817	9832	9835	9846	9848
9861	9873	9877	9892	9904
9915	9938	9939	9945	9946
9950	9968	9978	9995	10037
10050	10062	10070	10076	10084
10087	10092	10093	10099	10100
10101	10104	10110	10127	10132
10135	10137	10152	10156	10160
10172	10177	10181	10184	10188
10194	10195	10201	10204	10214
10234	10236	10263	10269	10332
10334	10343	10375	10377	10379
10383	10388	10394		

Copper (continued)

985	987	992	997	1000
1018	1030	1034	1045	1063
1068	1069	1073	1086	1089
1093	1098	1099	1105	1107
1108	1118	1129	1132	1133
1134	1135	1138	1141	1156
1162	1165	1166	1172	1190
1191	1211	1223	1226	1240
1244	1245	1246	1251	1254
1255	1263	1269	1272	1274
1275	1286	1287	1300	1306
1332	1344	1349	1354	1373
1384	1398	1411	1419	1421
1441	1442	1456	1466	1469
1471	1472	1473	1492	1504
1510	1515	1521	1533	1540
1542	1554	1555	1556	1557
1559	1603	1616	1617	1623
1641	1645	1648	1652	1672
1692	1699	1700	1703	1707
1708	1709	1710	1725	1736
1737	1746	1748	1749	1760
1766	1767	1769	1797	1800
1815	1817	1819	1825	1828
1832	1833	1841	1848	1855
1859	1886	1895	1907	1920
1925	1926	1965	1973	1975
1976	2125	2141	2144	2306
2308	2333	2358	2369	2386
2426	2495	2508	2511	2523
2535	2539	2548	2550	2552
2578	2579	2590	2597	2601
2610	2619	2638	2639	2640
2673	2688	2689	2690	2699
2713	2717	2718	2721	2723
2724	2728	2735	2739	2753
2766	2769	2776	2786	2801
2819	2848	2852	2871	2876
2882	2929	2930	2950	2965
2978	2999	3005	3027	3061
3065	3075	3341	3345	3350
3369	3371	3372	3373	3382
3383	3482	3483	3487	3708
3710	3713	3723	3727	3730
3731	3732	3738	3740	3760
3791	3797	3808	3957	3961
3964	3988	3991	3994	3998
4153	4191	4216	4217	4230
4232	4253	4267	4285	4291
4293	4298	4315	4329	5326
5336	5343	5345	5368	5382
5383	5390	5398	5399	5403
5499	5502	5510	5579	5619
5697	5703	5725	5750	5770
5785	5793	5864	5869	5924
5928	5931	5935	5944	5977
5981	5991	5995	6003	6007

Copper

5	6	7	12	22
54	55	56	63	68
78	81	83	102	103
116	130	138	140	141
149	166	167	174	183
189	200	205	215	238
246	252	255	270	290
291	322	328	351	370
371	390	398	402	408
419	423	442	443	454
462	469	470	471	473
501	502	504	508	509
513	531	544	550	560
567	571	572	573	594
606	616	621	637	641
648	649	652	662	674
675	686	688	695	699
702	704	706	710	712
714	724	726	755	760
767	772	775	789	799
803	804	805	806	810
813	824	825	829	830
834	848	849	870	879
882	888	892	894	895
896	899	919	920	922
938	941	945	977	982

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Copper (continued)

6008	6009	6016	6037	6055
6067	6083	6199	6207	6211
6226	6301	6307	6309	6328
6356	6369	6375	6378	6383
6397	6401	6407	6438	6457
6570	6572	6587	6671	6689
6693	6697	6706	6708	6712
6715	6716	6720	6745	6754
6825	6831	6849	6851	6923
6924	6929	6933	6935	6941
6944	6947	6949	6953	6963
6967	6990	6999	7003	7004
7082	7087	7092	7094	7103
7111	7116	7118	7123	7125
7129	7138	7152	7154	7164
7166	7209	7211	7212	7218
7243	7246	7254	7257	7281
7299	7300	7304	7306	7311
7314	7360	7382	7407	7427
7865	7868	7873	7877	7879
7933	7934	7938	7945	7948
7976	7978	7992	7993	7996
8007	8041	8052	8054	8068
8100	8110	8112	8124	8135
8141	8145	8152	8154	8155
8193	8200	8202	8211	8239
8240	8247	8276	8296	8331
8340	8361	8363	8375	8382
8392	8402	8423	8424	8804
8814	8836	8862	8885	8901
8907	8931	8958	8964	8978
8981	8987	8992	9000	9007
9012	9021	9030	9039	9063
9081	9090	9098	9102	9109
9120	9121	9123	9152	9155
9159	9168	9170	9176	9205
9216	9219	9237	9244	9248
9256	9265	9276	9285	9317
9318	9323	9327	9332	9353
9356	9360	9373	9374	9379
9415	9440	9443	9459	9460
9508	9513	9519	9525	9546
9568	9578	9583	9641	9643
9653	9654	9659	9673	9673
9686	9688	9695	9719	9722
9734	9735	9742	9744	9752
9770	9776	9799	9802	9807
9808	9811	9834	9835	9852
9861	9877	9905	9916	9924
9932	9937	9938	9950	9952
9965	9968	9971	9976	9981
9989	9995	9996	9997	9999
10001	10022	10034	10037	10070
10084	10092	10093	10099	10101
10105	10106	10110	10116	10123
10124	10135	10136	10156	10172
10184	10186	10201	10207	10243

Copper (continued)

10269	10283	10321	10322	10333
10334	10375	10377	10383	10388
10411	10418	10421	10431	

Dysprosium

79	115	139	188	252
267	343	396	419	439
604	713	757	824	920
958	982	998	1011	1038
1196	1199	1226	1329	1466
1567	1648	1682	1702	1710
1723	1835	1945	1957	2369
2597	2601	2689	2694	2735
2920	2950	3770	3780	3811
5746	5992	6074	6312	6442
6445	6454	6858	7152	7423
7884	7889	7938	8022	8121
8239	8274	8309	8820	8882
9110	9111	9362	9459	9559
9790	10099	10101	10109	10175
10184	10214	10284	10294	10295

Erbium

115	267	439	544	631
824	1055	1195	1226	1344
1478	1655	1710	1945	1957
1959	2689	2735	3100	4214
6991	7021	7884	9173	9266
9456	9641	10101	10109	10184
10295				

Europium

39	79	115	139	228
267	343	433	439	572
585	588	662	676	705
845	958	998	1226	1329
1466	1682	1710	1835	1897
1945	1957	1959	2350	2474
2689	2694	2735	2800	2945
3395	3397	3714	3770	3780
3811	4301	5740	5771	5777
5936	6057	6074	6312	6324
6442	6710	6822	6828	6858
6859	6860	6923	6927	6950
6963	6965	6966	6999	7148
7152	7254	7283	7333	7360
7393	7416	7423	7884	7937
7938	7988	8005	8023	8082
8121	8141	8239	8317	8324
8331	8820	8836	8847	8872
8964	9012	9017	9038	9110
9160	9249	9257	9319	9418
9456	9459	9464	9473	9534
9559	9562	9572	9619	9679

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Europium (continued)

9734	9744	9754	9790	9848
9873	9915	9938	9980	10050
10076	10099	10101	10108	10156
10184	10185	10207	10214	10234
10236	10263	10269	10284	10288
10295	10332	10352	10383	10394
10402				

Fluorine

17	23	29	105	141
201	313	382	423	455
479	549	659	704	712
716	760	824	855	895
986	1055	1065	1084	1157
1263	1280	1312	1442	1514
1639	1649	1764	1778	1793
1813	1823	1961	2126	2433
2498	2550	2584	2623	2666
2689	2796	2965	2987	3059
3089	3101	3767	3781	4000
4193	4198	4261	4276	4284
4392	5177	5356	5445	6056
6085	6331	6344	6585	6749
6843	7194	7232	7238	7239
7342	7390	7406	7903	7952
7953	8039	8058	8119	8135
8185	8236	8855	8879	8975
9010	9089	9104	9235	9290
9465	9563	9584	9591	9632
9671	9694	9721	9756	9763
9901	9917	9952	9987	9992
10016	10025	10047	10053	10066
10097	10144	10149	10150	10193
10199	10277	10405	10428	

Gallium (continued)

815	834	845	870	879
895	902	920	985	987
1045	1063	1086	1088	1092
1098	1099	1133	1134	1135
1138	1165	1166	1226	1245
1246	1264	1272	1338	1349
1441	1469	1477	1510	1548
1603	1616	1699	1700	1710
1723	1736	1737	1746	1797
1817	1974	1976	2444	2523
2548	2550	2579	2601	2683
2688	2689	2717	2718	2721
2769	2801	2950	3059	3382
3383	3476	3485	3487	3514
3730	3791	3797	3961	4310
5345	5365	5619	5771	5785
5787	6037	6199	6215	6226
6323	6356	6383	6574	6676
6678	6923	6963	6965	6972
6999	7004	7143	7152	7164
7166	7210	7212	7254	7304
7306	7310	7360	7865	7883
7934	7938	8088	8111	8200
8237	8276	8338	8355	8358
8836	8961	8964	8967	8987
9012	9098	9112	9118	9159
9170	9202	9219	9256	9270
9317	9356	9379	9409	9459
9474	9525	9568	9573	9589
9641	9643	9656	9659	9770
9811	9833	9835	9838	9861
9915	9916	9946	9968	10050
10092	10093	10101	10184	10269
10272	10286	10321	10375	10383

Gadolinium

79	103	115	139	267
439	688	704	767	824
845	948	1226	1329	1710
1785	1945	1957	1959	2689
2735	3811	4214	4325	5308
5740	6043	6371	7112	7423
7904	7938	8005	8317	9110
9222	9456	9641	10101	10109
10184	10295	10402		

Germanium

469	706	824	1055	1118
1275	1710	1863	2689	2954
3476	3481	3799	4253	5344
5365	5430	6323	6575	6824
6972	7116	7210	7281	7310
8064	8237	8853	8880	8964
8967	8990	9118	9170	9270
9427	9589	9833	9861	9896
9968	10101	10171		

Gallium

4	12	66	68	80
84	103	166	167	187
210	238	249	252	255
360	361	370	398	419
443	509	544	606	635
662	688	704	707	726
760	767	799	805	806

Gold

9	13	14	85	103
124	149	163	165	166
178	186	187	189	205
215	235	246	328	374
390	405	409	419	424
462	509	512	523	524
525	544	545	549	572
601	614	619	625	630

ACTIVATION ANALYSIS – ELEMENT DETERMINED

Gold (continued)

631	640	659	662	674
686	688	702	706	710
713	714	724	754	755
758	760	767	799	810
828	829	830	848	858
870	879	887	888	894
942	943	956	968	977
995	997	1007	1014	1027
1045	1055	1060	1073	1074
1089	1118	1132	1133	1134
1135	1191	1193	1205	1226
1233	1241	1254	1271	1277
1286	1299	1306	1310	1320
1332	1349	1383	1402	1412
1456	1471	1472	1477	1478
1492	1496	1506	1550	1551
1566	1581	1584	1585	1610
1616	1641	1648	1649	1655
1672	1699	1710	1725	1727
1736	1737	1743	1763	1766
1797	1800	1920	1926	1929
1930	1962	2123	2296	2308
2333	2369	2508	2511	2523
2548	2550	2614	2639	2641
2688	2689	2699	2715	2717
2718	2721	2766	2769	2776
2801	2805	2819	2852	2871
2887	2904	2923	2964	2966
2999	3342	3350	3367	3382
3383	3385	3418	3467	3514
3708	3710	3738	3757	3964
4153	4217	4230	4232	4242
4244	4249	4307	4308	4309
4310	4312	4328	4329	5344
5364	5390	5393	5399	5499
5500	5579	5619	5704	5717
5761	5787	5808	5848	5858
5931	5940	5942	5949	5959
5977	5981	6008	6037	6050
6202	6298	6323	6337	6358
6378	6383	6397	6405	6407
6457	6570	6572	6575	6584
6587	6670	6691	6697	6702
6708	6715	6748	6831	6923
6930	6947	6949	6957	6972
6990	6996	7003	7021	7072
7082	7095	7116	7118	7119
7124	7129	7133	7135	7139
7164	7188	7195	7209	7218
7232	7254	7260	7281	7298
7303	7304	7306	7311	7316
7329	7360	7382	7385	7393
7410	7420	7873	7900	7934
7957	7996	8018	8041	8054
8068	8075	8080	8085	8110
8111	8112	8115	8125	8128
8138	8139	8145	8154	8155

Gold (continued)

8160	8193	8253	8342	8346
8347	8357	8358	8362	8364
8365	8377	8378	8382	8392
8816	8827	8831	8834	8836
8862	8880	8885	8964	8984
9007	9011	9012	9059	9063
9066	9095	9118	9120	9159
9160	9170	9219	9224	9237
9244	9256	9270	9276	9300
9302	9317	9318	9327	9345
9356	9379	9405	9436	9440
9449	9461	9474	9478	9522
9572	9573	9623	9627	9630
9642	9643	9659	9695	9702
9723	9747	9754	9764	9778
9811	9817	9832	9833	9835
9861	9867	9868	9870	9871
9873	9892	9916	9924	9928
9941	9946	9968	9979	9981
9998	9999	10020	10036	10040
10049	10070	10092	10093	10099
10101	10120	10123	10141	10156
10169	10180	10184	10186	10194
10196	10201	10234	10272	10283
10291	10301	10302	10303	10319
10320	10325	10352	10375	10383
10394	10408	10415		

Hafnium

9	24	103	166	167
176	212	225	238	252
291	313	325	347	375
419	494	549	588	614
631	641	676	683	688
704	705	726	760	790
810	824	828	879	895
899	920	967	987	988
1003	1014	1022	1042	1045
1055	1097	1134	1165	1173
1185	1193	1226	1236	1381
1410	1471	1472	1477	1492
1564	1573	1574	1578	1612
1615	1642	1699	1709	1710
1723	1736	1795	1797	1920
1931	2550	2559	2601	2689
2717	2735	2766	2852	2950
2979	3811	3996	4214	5369
5500	5515	5517	5771	5785
5788	5936	6199	6213	6297
6335	6376	6442	6443	6574
6575	6584	6701	6741	6923
6951	6963	6965	6966	7132
7145	7241	7254	7360	7416
7937	7938	7948	7956	8063
8080	8085	8088	8091	8108
8141	8191	8197	8239	8300

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Hafnium (continued)

8310	8331	8833	8985	9003
9005	9017	9047	9064	9257
9269	9300	9459	9464	9473
9522	9534	9562	9659	9685
9688	9696	9733	9734	9737
9748	9771	9848	9915	9996
10076	10083	10093	10099	10100
10101	10110	10184	10234	10236
10263	10269	10271	10318	10332
10352	10402			

Helium

114	158	528	563	721
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Holmium

103	115	211	267	343
439	544	662	688	704
713	767	1036	1042	1226
1344	1466	1478	1597	1655
1710	1835	1945	1957	1959
2621	2689	2735	5732	7884
7938	8309	8820	8843	9110
9111	9456	9569	9641	9734
10101	10109	10184	10295	

Hydrogen

206	207	1062	1377	1415
1772	1785	1843	1898	1906
2303	3033	3072	3078	5319
6366	6367	6450	6582	6669
6682	6711	6995	7127	7144
7240	8312	8320	8887	9233
9305	9763	10028	10165	10338
10419				

Indium

82	141	166	205	210
229	234	239	240	249
255	272	301	344	419
436	478	509	526	544
588	631	637	662	674
676	697	704	705	713
724	742	760	799	810
815	870	879	894	924
941	957	964	1006	1014
1045	1055	1118	1133	1134
1135	1166	1168	1202	1209
1226	1243	1247	1263	1275
1349	1443	1472	1477	1478
1548	1564	1603	1616	1655
1671	1699	1710	1727	1754
1758	1797	1879	2340	2444
2523	2525	2601	2614	2640

Indium (continued)

2683	2688	2689	2717	2718
2769	2801	2950	2966	3079
3383	3514	3730	3731	3739
3740	4214	4253	4286	4328
5336	5343	5345	5619	5703
5785	5870	6202	6203	6214
6226	6323	6355	6376	6574
6584	6676	6678	6824	6848
6923	6957	6974	7004	7094
7123	7164	7166	7171	7210
7212	7225	7226	7229	7254
7281	7312	7342	7360	7389
7460	7888	7938	7948	7959
7995	8110	8115	8158	8186
8200	8214	8237	8338	8355
8376	8847	8880	8913	8964
8967	8982	9012	9159	9173
9219	9256	9300	9356	9432
9435	9474	9536	9573	9659
9723	9806	9833	9861	9916
9941	9942	9946	9953	9968
9990	9999	10005	10036	10092
10093	10100	10101	10110	10156
10184	10185	10196	10286	10383

Iodine

23	50	54	55	56
61	62	68	90	117
126	130	205	290	333
379	602	634	638	686
688	697	704	725	760
810	824	827	848	851
882	926	962	965	966
1020	1086	1096	1105	1110
1122	1143	1153	1208	1230
1250	1259	1266	1278	1326
1463	1470	1519	1529	1569
1653	1710	1725	1750	1824
1874	1914	1964	2440	2508
2546	2550	2558	2689	2693
2695	2758	2813	2873	2972
2982	3077	3101	3358	3360
3468	3483	3745	3808	3959
4190	4191	4232	4293	4310
5390	5397	5699	5716	5718
5948	5977	5995	5999	6000
6015	6017	6023	6047	6058
6068	6085	6208	6302	6303
6304	6321	6361	6362	6363
6364	6365	6437	6461	6575
6699	6746	6747	6842	6853
6921	6945	6946	6953	7020
7026	7084	7129	7176	7203
7227	7232	7316	7396	7405
7869	7870	7893	7947	7952
7986	7998	8000	8010	8011

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Iodine (continued)

8038	8130	8236	8246	8285
8303	8338	8343	8822	8828
8878	9008	9012	9018	9021
9032	9068	9169	9179	9218
9253	9298	9328	9342	9476
9590	9598	9637	9640	9694
9695	9701	9703	9715	9780
9788	9879	9914	9923	9946
9949	9961	9962	9972	10035
10097	10128	10134	10144	10158
10201	10220	10240	10242	10268
10383				

Iron (continued)

1138	1165	1166	1184	1190
1193	1226	1251	1254	1263
1273	1277	1319	1338	1354
1373	1411	1412	1419	1434
1438	1456	1460	1466	1469
1471	1477	1512	1542	1559
1564	1603	1611	1614	1616
1632	1651	1699	1709	1710
1717	1721	1736	1766	1785
1786	1797	1798	1799	1820
1843	1844	1856	1860	1889
1897	1898	1912	1920	2308
2447	2507	2523	2526	2548
2550	2601	2629	2638	2639
2654	2658	2688	2689	2690
2694	2717	2718	2723	2725
2735	2769	2776	2789	2801
2819	2846	2852	2870	2871
2876	2878	2931	2933	2950
2965	2999	3005	3075	3382
3383	3418	3461	3730	3790
3957	3964	4005	4198	4211
4258	4264	4308	4315	5343
5345	5369	5383	5384	5619
5697	5728	5747	5759	5766
5771	5785	5787	5788	5808
5864	5936	5939	5941	5955
5977	5981	5991	6012	6016
6037	6199	6202	6203	6207
6226	6301	6307	6323	6356
6375	6376	6383	6407	6442
6451	6453	6574	6587	6671
6697	6740	6743	6754	6755
6831	6845	6923	6924	6930
6931	6941	6949	6950	6963
6965	6966	6967	6999	7004
7077	7083	7111	7125	7145
7166	7170	7188	7197	7211
7212	7217	7226	7232	7235
7243	7254	7260	7281	7310
7316	7333	7360	7379	7404
7416	7424	7934	7935	7937
7938	7948	7978	7983	7988
8017	8041	8080	8085	8088
8111	8124	8139	8140	8141
8143	8144	8145	8146	8147
8148	8156	8196	8200	8235
8239	8243	8252	8253	8310
8331	8349	8834	8836	8872
8915	8926	8987	9012	9017
9051	9052	9063	9066	9095
9098	9152	9202	9219	9237
9244	9256	9269	9276	9287
9317	9327	9330	9356	9409
9418	9435	9455	9459	9472
9473	9525	9530	9534	9537
9543	9548	9562	9572	9619

Iridium

2	9	135	145	221
352	545	588	631	662
676	698	705	727	774
776	810	817	824	907
964	1014	1055	1095	1176
1193	1214	1226	1260	1344
1425	1566	1581	1693	1710
1727	2296	2515	2644	2689
2844	3467	3473	3530	3810
3949	4214	4312	5363	5399
5436	5619	5703	5717	5940
6405	6574	6584	6710	6957
6958	6969	6991	7107	7118
7119	7212	7281	7371	7385
7394	7997	8062	8085	8112
8237	8244	8377	8382	8831
8836	8844	8964	8984	9011
9159	9266	9474	9589	9627
9714	9723	9730	9808	9811
9833	9861	9867	9868	9869
9870	9979	10020	10030	10036
10077	10092	10155	10181	10196
10306	10321	10347		

Iron

4	22	78	83	97
102	103	113	116	138
141	166	167	174	238
246	252	255	263	291
322	328	352	371	398
408	419	423	433	471
482	504	508	509	531
567	588	606	614	637
640	641	652	657	662
665	676	688	692	699
704	705	712	713	716
726	735	741	755	760
789	790	806	815	834
879	894	920	942	961
977	987	1005	1042	1045
1063	1089	1118	1123	1134

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Iron (continued)

9627	9630	9647	9659	9679
9688	9695	9726	9733	9734
9741	9746	9754	9762	9771
9814	9817	9835	9848	9849
9861	9865	9866	9873	9877
9890	9904	9915	9938	9939
9945	9950	9968	9978	10011
10050	10084	10093	10099	10100
10101	10104	10105	10110	10123
10127	10135	10152	10156	10160
10163	10180	10181	10184	10188
10201	10204	10207	10230	10234
10236	10263	10269	10274	10280
10318	10332	10334	10343	10375
10377	10383	10388	10424	

Krypton

1539	1543	1891	2689	3468
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Lanthanum

79	103	115	252	395
411	419	433	439	504
511	572	585	688	704
726	767	896	920	958
977	998	1038	1042	1134
1226	1412	1419	1438	1466
1473	1540	1549	1596	1597
1682	1710	1723	1736	1737
1760	1797	1835	1897	1920
1945	1957	1959	2306	2308
2548	2597	2638	2639	2689
2694	2717	2735	2776	2800
2819	2836	2852	2882	2999
3005	3384	3395	3470	3714
3766	3780	4286	4329	5732
5771	5777	5785	5788	5936
6037	6074	6227	6295	6307
6324	6354	6375	6376	6442
6574	6740	6828	6857	6858
6923	6924	6927	6943	6950
6951	6963	6965	6966	6974
6999	7082	7152	7195	7254
7333	7360	7375	7393	7416
7884	7934	7938	7983	7988
7989	8023	8080	8121	8141
8239	8252	8317	8331	8820
8836	8843	8844	8872	9012
9017	9036	9051	9066	9110
9111	9158	9257	9319	9379
9418	9456	9459	9473	9492
9559	9562	9569	9619	9621
9641	9664	9679	9724	9734
9744	9754	9784	9790	9812
9814	9835	9846	9848	9873
9915	9938	9945	9946	9980

Lanthanum (continued)

10050	10070	10076	10099	10101
10104	10110	10116	10123	10129
10156	10175	10184	10188	10196
10201	10236	10263	10269	10318
10332	10343	10375	10383	10394
10418	10430			

Lead

141	291	423	1101	1124
1150	1212	1340	1427	1486
1911	2251	2614	2689	2812
2965	4230	4319	6344	6587
6849	6854	6949	6960	7177
7232	7315	7316	7460	8065
8203	8873	8892	9033	9244
9327	9436	9588	9617	9669
9740	10051	10180	10201	10219
10226	10393	10428		

Lithium

82	110	158	196	219
256	261	300	397	455
530	728	782	784	841
949	981	1070	1351	1528
1576	1618	1787	1801	1857
1906	2251	2385	2543	2755
2927	3059	3126	3376	3793
5854	6056	6331	6344	6751
7109	7875	7894	8035	8236
8282	8316	8855	8873	8965
9133	9175	9180	9577	9693
10097	10101	10192	10227	

Lutetium

103	115	224	267	439
588	676	688	704	705
713	767	1014	1042	1226
1344	1710	1835	1945	1959
2621	2689	2694	2735	3384
3397	3780	4301	5771	5936
5962	6295	6442	6965	6999
7938	8071	8083	8239	8309
8317	8331	9017	9300	9456
9459	9473	9641	9734	9848
10076	10083	10099	10101	10156
10184	10236	10269	10295	10332
10343				

Magnesium

54	55	56	87	98
141	205	290	328	382
442	455	509	580	581
622	635	638	648	659

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Magnesium (continued)

707	760	821	845	848
850	851	961	966	1086
1087	1139	1165	1193	1217
1226	1384	1400	1409	1460
1611	1616	1649	1708	1710
1785	1893	1912	1975	2306
2434	2445	2499	2508	2526
2551	2689	2690	2707	2871
2945	3075	3383	3388	3461
3483	3724	3790	3793	3976
3985	4193	4198	4258	4272
5383	5384	5743	5759	5924
5977	5978	6056	6067	6301
6309	6328	6453	6712	6734
6930	6933	6936	6963	6967
6970	7004	7111	7135	7204
7229	7235	7246	7282	7338
7938	7985	8001	8124	8240
8299	8338	8810	8911	8926
9012	9134	9269	9330	9404
9459	9543	9547	9627	9733
9734	9749	9823	9865	9925
9937	9938	10100	10101	10105
10107	10156	10214	10230	10236
10269	10274	10280	10318	10383
10402				

Manganese (continued)

1191	1192	1193	1204	1206
1207	1226	1245	1251	1254
1255	1263	1264	1267	1269
1272	1277	1319	1332	1354
1376	1384	1406	1419	1434
1441	1442	1443	1456	1460
1466	1471	1477	1487	1492
1495	1510	1513	1540	1542
1558	1559	1572	1606	1611
1616	1636	1642	1699	1700
1703	1705	1708	1709	1710
1723	1725	1736	1737	1744
1746	1749	1766	1767	1769
1781	1789	1795	1800	1805
1813	1817	1819	1825	1828
1832	1833	1840	1857	1897
1965	1975	2125	2141	2157
2306	2337	2369	2426	2481
2495	2498	2502	2508	2511
2523	2534	2535	2548	2550
2559	2573	2578	2579	2597
2601	2685	2688	2689	2690
2699	2707	2717	2721	2723
2725	2733	2735	2739	2751
2753	2766	2769	2795	2801
2804	2821	2845	2846	2848
2852	2876	2882	2892	2931
2950	2963	2966	3062	3344
3365	3369	3382	3383	3470
3483	3710	3713	3723	3727
3804	3957	3964	3988	4191
4232	4263	4285	4286	4291
4293	4306	4310	4315	4317
4329	4374	5335	5343	5368
5370	5386	5390	5500	5501
5510	5571	5591	5619	5697
5713	5725	5726	5759	5766
5771	5785	5792	5864	5869
5924	5936	5941	5944	5955
5972	5977	5981	5996	6003
6006	6016	6037	6055	6067
6199	6206	6209	6226	6227
6309	6328	6375	6376	6407
6438	6442	6453	6574	6667
6671	6700	6712	6715	6716
6720	6734	6743	6754	6824
6849	6922	6924	6929	6930
6933	6935	6936	6939	6941
6947	6953	6963	6965	6969
6982	7077	7082	7090	7092
7099	7101	7111	7123	7125
7129	7160	7166	7170	7215
7218	7229	7235	7243	7246
7254	7260	7280	7281	7282
7303	7304	7306	7311	7341
7342	7355	7360	7375	7382
7401	7407	7411	7416	7424

Manganese

4	5	54	55	56
59	64	68	78	80
81	83	88	97	103
130	140	141	149	166
167	175	189	205	215
238	246	252	271	290
291	291	301	322	331
351	357	419	422	433
442	454	502	509	516
531	544	552	561	564
573	581	586	625	635
637	640	641	648	651
652	662	665	686	688
699	702	704	706	709
710	714	717	718	726
735	760	767	775	777
789	806	810	813	815
829	830	834	845	848
849	850	862	879	882
893	895	896	897	899
902	903	919	920	929
933	934	938	941	942
966	968	969	977	985
987	992	995	1045	1048
1068	1073	1086	1088	1089
1093	1098	1099	1105	1107
1112	1114	1118	1124	1129
1138	1141	1162	1166	1171

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Manganese (continued)

7865	7877	7879	7889	7896
7898	7901	7938	7976	7978
7979	7981	7991	7993	7996
7999	8001	8007	8017	8052
8054	8075	8088	8099	8115
8116	8120	8127	8135	8141
8145	8151	8196	8198	8200
8202	8235	8239	8240	8252
8254	8276	8296	8298	8299
8331	8344	8348	8349	8363
8374	8375	8382	8390	8895
8907	8913	8964	8966	8988
8992	9000	9012	9051	9086
9100	9105	9123	9134	9151
9152	9157	9160	9170	9205
9219	9226	9227	9246	9256
9263	9269	9276	9317	9318
9321	9323	9327	9351	9373
9379	9393	9395	9409	9415
9435	9440	9459	9460	9473
9508	9513	9543	9559	9568
9583	9621	9623	9641	9653
9654	9659	9673	9675	9678
9679	9686	9688	9694	9695
9704	9707	9719	9722	9734
9735	9741	9744	9746	9747
9752	9754	9755	9762	9770
9772	9791	9807	9812	9814
9823	9861	9866	9877	9893
9915	9924	9925	9932	9937
9938	9939	9944	9946	9950
9952	9965	9983	9995	9996
10037	10050	10062	10083	10084
10087	10093	10094	10099	10100
10101	10106	10110	10116	10135
10137	10156	10170	10172	10184
10201	10207	10214	10236	10269
10283	10321	10333	10334	10370
10382	10383	10388	10431	

Mercury (continued)

2508	2548	2563	2565	2572
2638	2639	2689	2699	2707
2715	2739	2769	2776	2819
2838	2852	2999	3084	3360
3376	3774	3789	3791	3808
3957	3989	4153	4214	4232
4267	4268	4285	5327	5390
5447	5499	5510	5698	5725
5728	5771	5785	5792	5808
5860	5944	5977	6003	6008
6037	6061	6080	6294	6302
6307	6308	6337	6375	6575
6584	6699	6747	6849	6851
6923	6930	6941	6942	6945
6947	6957	6965	6972	6981
7004	7125	7129	7195	7211
7243	7281	7316	7328	7386
7393	7913	7927	7938	8008
8017	8051	8090	8126	8139
8143	8145	8146	8147	8148
8156	8200	8236	8342	8413
8802	8807	8818	8824	8834
8927	8980	9012	9030	9051
9063	9066	9095	9118	9120
9237	9270	9274	9276	9293
9300	9313	9327	9332	9333
9418	9434	9455	9503	9552
9572	9619	9624	9633	9634
9635	9648	9649	9650	9660
9665	9672	9673	9695	9710
9712	9713	9723	9726	9728
9752	9776	9810	9814	9817
9835	9861	9872	9935	9944
9947	9948	9949	9963	9968
9969	10036	10097	10107	10119
10130	10194	10204	10207	10209
10210	10211	10218	10234	10237
10241	10255	10281	10383	10388
10394	10395	10396	10397	10398
10399	10400			

Mercury

82	103	145	146	166
167	252	302	317	460
504	509	520	533	570
571	614	625	631	636
674	688	689	706	717
740	799	824	879	882
894	942	977	1005	1014
1045	1105	1118	1134	1181
1182	1212	1221	1224	1226
1239	1247	1255	1277	1288
1340	1409	1412	1462	1471
1477	1479	1497	1553	1568
1603	1699	1710	1737	1746
1797	1825	1894	1920	1969
2296	2308	2403	2430	2447

Molybdenum

66	68	103	116	140
165	166	167	205	246
291	322	328	398	409
442	504	508	509	575
641	688	704	726	758
760	767	773	799	804
810	820	870	879	980
1045	1086	1118	1124	1133
1134	1135	1150	1165	1190
1191	1215	1220	1234	1254
1275	1291	1340	1412	1442
1456	1471	1472	1477	1484
1515	1592	1616	1699	1709
1710	1715	1727	1786	1797

ACTIVATION ANALYSIS – ELEMENT DETERMINED

Molybdenum (continued)

1832	1844	1907	1910	1920
1965	2308	2369	2495	2508
2523	2550	2638	2639	2689
2699	2717	2735	2769	2776
2819	2836	2852	2871	2881
2882	3059	3383	3487	3732
3808	3964	3982	4232	4253
4411	5785	5808	6003	6008
6226	6356	6383	6395	6397
6409	6574	6671	6697	6725
6738	6754	6823	6831	6957
6972	6980	6994	7003	7092
7122	7135	7154	7164	7167
7182	7211	7254	7359	7360
7376	7938	7959	8070	8152
8212	8247	8310	8321	8362
8836	9118	9256	9270	9327
9641	9643	9645	9674	9695
9723	9744	9861	9946	10036
10084	10099	10201	10411	

Nickel (continued)

2548	2550	2578	2601	2619
2658	2673	2689	2723	2724
2744	2769	2950	3383	3418
3661	3957	3964	4272	4308
5345	5368	5386	5448	5500
5619	5759	5788	5955	5981
6037	6323	6356	6383	6453
6574	6587	6754	6755	6825
6844	6949	6969	7036	7164
7166	7197	7232	7235	7254
7281	7310	7360	7371	7424
7919	7937	7938	8062	8085
8088	8239	8331	8402	8836
8919	8992	9000	9007	9012
9219	9227	9244	9269	9317
9461	9516	9534	9543	9572
9573	9627	9659	9731	9771
9811	9832	9849	9861	9946
9967	9968	9995	9997	9999
10022	10072	10083	10093	10099
10101	10127	10163	10181	10184
10201	10280	10334	10377	10379
10383	10388	10391	10402	

Neodymium

103	115	267	439	688
704	767	1042	1226	1710
1835	1945	1957	1959	2498
2597	2689	2735	2999	3087
3384	3395	4250	6371	6442
6836	6991	7021	7884	7938
8121	8317	8386	8820	9456
9641	9809	10101	10184	10402

Niobium

89	197	353	419	697
1102	1137	1172	1201	1226
1232	1340	1410	1518	1538
1582	1710	1911	2499	2502
2611	2689	2690	2830	3560
3793	4411	6574	6575	6833
7948	9058	9062	9220	9236
9586	10407			

Neon

528	1891	2689
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Nickel

4	5	78	81	83
103	140	141	149	166
167	174	205	270	282
287	291	291	322	352
390	419	462	470	471
482	502	508	509	531
544	614	616	635	641
662	674	688	704	724
755	760	767	789	804
810	815	818	845	879
896	919	928	1027	1045
1117	1118	1124	1138	1165
1167	1190	1191	1193	1226
1240	1254	1354	1375	1398
1441	1456	1471	1477	1515
1526	1559	1614	1616	1699
1703	1709	1710	1717	1725
1727	1737	1785	1832	1965
1973	2369	2495	2508	2523

Nitrogen

49	201	346	423	495
497	499	637	696	703
704	712	716	760	811
814	841	1065	1263	1312
1408	1442	1599	1670	1680
1738	1778	1816	1823	1849
1857	1896	1898	1939	2129
2298	2384	2505	2524	2550
2569	2661	3059	3070	3364
3474	3976	3995	4193	4211
5238	5420	5442	5782	6056
6339	6374	6580	6582	6680
6681	7015	7019	7102	7200
7213	7219	7240	7297	7322
7343	7400	7413	7905	7907
7970	8034	8040	8124	8276
8303	8395	8416	8810	8866
8977	9049	9074	9097	9113
9241	9278	9413	9576	9597
9639	9646	9718	9756	9757

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Nitrogen (continued)

9763	9822	9929	9991	10039
10046	10198	10199	10270	10276
10315	10316	10355	10368	10405
10406				

Osmium

221	222	224	226	347
352	683	1076	1095	1119
1134	1226	1340	1431	1492
1502	1710	1797	1920	2689
2766	4312	5436	5717	5719
5940	6392	6405	6575	6719
6957	6972	7990	8236	9118
9270	9723	9829	9861	9867
9868	9869	9870	10030	10036
10095	10097			

Oxygen

29	38	45	46	49
58	69	74	75	105
108	109	113	131	153
160	199	201	391	403
423	423	426	455	495
497	500	519	549	567
578	591	596	611	623
629	637	638	654	655
659	695	703	712	716
756	762	770	771	811
814	839	841	843	860
863	867	868	912	913
921	959	977	1023	1055
1060	1065	1067	1071	1075
1103	1104	1116	1151	1158
1190	1194	1229	1238	1248
1252	1256	1258	1263	1294
1297	1309	1312	1318	1330
1394	1399	1414	1424	1437
1442	1450	1453	1483	1491
1509	1522	1530	1532	1589
1598	1604	1646	1649	1668
1675	1686	1704	1713	1721
1730	1739	1742	1773	1778
1798	1802	1804	1811	1814
1816	1823	1831	1857	1887
1889	1896	1900	1904	1906
1912	1915	1939	1950	1954
1956	1979	2129	2297	2298
2381	2418	2453	2498	2504
2505	2506	2507	2518	2526
2540	2542	2543	2549	2550
2562	2580	2586	2591	2598
2608	2615	2634	2649	2668
2678	2684	2686	2726	2734
2749	2764	2772	2774	2798
2802	2933	2948	2949	2965

Oxygen (continued)

2983	3063	3070	3073	3077
3085	3090	3355	3357	3461
3502	3553	3711	3718	3721
3722	3727	3729	3746	3753
3768	3771	3783	3790	3793
3810	3965	3970	3973	3976
3977	3981	3986	3992	4193
4196	4197	4198	4209	4211
4226	4260	4277	4386	5238
5321	5322	5330	5353	5380
5384	5409	5431	5432	5435
5442	5450	5451	5452	5708
5752	5768	5769	5772	5780
5781	5921	5923	5938	6053
6065	6066	6072	6329	6339
6370	6449	6582	6588	6589
6590	6591	6592	6593	6594
6595	6680	6681	6684	6694
6705	6722	6728	6742	6750
6752	6830	6845	6856	6967
6973	6978	7009	7011	7012
7014	7015	7017	7019	7025
7076	7097	7106	7142	7180
7200	7201	7213	7214	7230
7248	7289	7291	7301	7307
7322	7330	7337	7343	7344
7351	7387	7417	7419	7905
7912	7915	7917	7946	7949
7969	7982	8085	8167	8240
8241	8276	8284	8303	8304
8314	8315	8319	8329	8330
8395	8415	8801	8805	8810
8825	8842	8849	8859	8894
8898	8917	8926	8971	8973
9001	9013	9034	9035	9050
9065	9067	9093	9113	9114
9124	9182	9204	9229	9231
9232	9233	9241	9260	9269
9273	9277	9288	9294	9330
9339	9340	9350	9377	9380
9416	9424	9439	9454	9472
9483	9485	9486	9496	9537
9543	9545	9546	9563	9574
9670	9687	9688	9706	9711
9716	9733	9734	9745	9750
9756	9757	9763	9768	9773
9786	9794	9795	9819	9865
9880	9884	9899	9921	9929
9930	9931	9982	9988	10000
10004	10009	10010	10039	10047
10055	10101	10131	10164	10182
10190	10193	10199	10215	10223
10235	10252	10262	10317	10374
10404	10405	10406	10425	10428

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Palladium					Phosphorus (continued)				
28	84	103	166	167	7243	7338	7380	7403	7877
187	262	352	462	525	7880	7932	7977	8054	8056
544	545	588	662	676	8081	8124	8163	8165	8171
705	724	760	776	879	8187	8192	8200	8292	8308
997	1176	1226	1235	1275	8310	8351	8395	8880	8903
1458	1539	1581	1693	1699	8929	9097	9122	9240	9322
1710	2689	2839	3810	4253	9563	9571	9579	9679	9761
4312	5307	5436	5619	5703	9799	9822	9861	9898	10107
5717	6405	6980	7119	7212	10152	10273	10276	10293	
7237	7394	7941	8204	8244					
8377	8378	8884	8964	8986	Platinum				
9011	9130	9131	9159	9659	9	205	352	509	544
9766	9835	9867	9868	9870	545	588	631	662	676
9916	10030	10092	10101	10184	705	741	776	817	824
10379					1014	1045	1118	1134	1176
					1226	1235	1458	1512	1566
					1649	1693	1710	1797	1920
					2639	2717	5436	5619	5717
					5942	5984	6024	6337	6405
					6584	6715	6725	7118	7119
					7941	8085	8112	8295	8378
					8831	9011	9130	9131	9159
					9219	9300	9659	9766	9835
					9838	9867	9868	9870	9979
					10030	10184	10264	10415	
					Plutonium				
					326	336	841	1357	1906
					1921	2553	2689	2998	6713
					6714	6985	8069	9531	9613
					10061	10140	10222	10224	10351
					10378				
					Potassium				
					22	35	54	55	56
					73	79	103	123	166
					167	189	205	246	259
					260	268	290	300	371
					414	419	429	442	493
					538	541	553	637	652
					662	686	688	699	702
					704	739	815	845	848
					849	879	888	894	903
					923	933	934	1045	1048
					1086	1089	1131	1165	1190
					1193	1226	1263	1311	1344
					1354	1395	1419	1466	1472
					1477	1510	1552	1558	1559
					1597	1660	1699	1707	1710
					1719	1746	1785	1896	1898
					1963	2508	2523	2550	2673
					2689	2707	2727	2797	2819
					2852	2876	2945	2965	2973
					2999	3059	3081	3334	3368

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Potassium (continued)

3383	3393	3483	3669	3736
3769	3775	3791	3810	3990
4193	4198	4240	4248	4262
4278	4315	5370	5384	5386
5422	5500	5571	5619	5697
5703	5785	5924	5936	5977
6005	6011	6056	6063	6067
6223	6375	6389	6390	6399
6574	6688	6826	6930	6939
6941	6956	6963	6976	6982
6999	7004	7077	7092	7125
7164	7165	7193	7196	7212
7240	7243	7254	7327	7338
7341	7360	7380	7403	7934
7938	7978	8055	8124	8139
8143	8145	8146	8147	8148
8200	8239	8339	8345	8351
8363	8834	8836	8843	8964
8968	8989	8993	8995	9012
9095	9119	9154	9159	9174
9250	9276	9285	9317	9395
9459	9473	9543	9568	9569
9659	9679	9694	9695	9735
9761	9804	9807	9817	9823
9831	9874	9876	9877	9932
9938	10050	10064	10093	10099
10100	10101	10116	10126	10156
10184	10204	10207	10214	10234
10269	10375	10383		

Praseodymium

103	115	439	546	688
704	767	960	1115	1226
1710	1835	1945	1957	1959
1978	2498	2689	2735	3087
3328	3397	4301	6828	7021
7397	7910	8121	8808	8820
9641	10101			

Promethium

6057

Protactinium

1439	2889	6574	6961	
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Radium

1439

Rhenium

85	86	165	186	205
224	226	362	409	511
600	677	683	686	713

Rhenium (continued)

758	768	810	964	1045
1226	1431	1478	1502	1584
1585	1655	1710	1727	1760
1803	2296	2350	2431	2689
2811	2902	3384	3414	4310
4311	5592	5619	5703	5719
5857	6054	6200	6395	6575
6677	6725	6735	6957	6972
7093	7134	7336	7374	7990
8168	8362	8964	9005	9118
9159	9270	9282	9652	9723
9744	9829	9861	10036	10070
10095	10194	10196	10381	

Rhodium

344	352	436	631	697
713	824	941	1014	1055
1172	1226	1228	1710	2689
2966	3793	4312	6324	6677
7366	7941	8113	8831	9011
9130	9131	9300	10030	10278
10403				

Rubidium

54	55	56	79	93
96	103	138	166	167
290	300	328	460	462
469	477	504	588	614
676	688	705	741	790
810	815	815	824	852
879	968	999	1027	1042
1045	1055	1089	1134	1190
1197	1222	1226	1265	1332
1412	1449	1466	1477	1512
1597	1699	1710	1727	1737
1766	1797	1800	1817	1920
1952	1973	2308	2508	2523
2548	2550	2614	2638	2639
2689	2735	2776	2819	2852
2871	2999	3383	3468	3483
3775	4214	4310	5369	5728
5771	5785	5936	5977	5981
6037	6227	6359	6375	6379
6442	6574	6930	6931	6939
6941	6957	6965	7004	7125
7152	7164	7165	7196	7232
7243	7887	7935	7938	7948
8139	8143	8145	8146	8147
8148	8200	8252	8253	8338
8339	8354	8834	8837	9017
9095	9220	9276	9285	9303
9317	9435	9459	9464	9474
9641	9659	9807	9817	9827
9835	9846	9848	9916	10036
10076	10092	10093	10100	10101

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Selenium (continued)

284	328	387	407	419
434	504	542	549	562
588	592	607	614	625
631	674	676	688	705
706	707	709	717	726
753	792	810	824	844
852	879	894	1014	1024
1027	1055	1086	1118	1134
1138	1190	1203	1226	1300
1340	1349	1412	1442	1477
1567	1649	1654	1665	1699
1702	1710	1712	1737	1797
1894	1920	2296	2308	2403
2455	2503	2508	2548	2550
2638	2639	2644	2676	2689
2699	2707	2764	2776	2819
2852	2853	2871	2954	2999
3060	3418	3791	3808	3948
3954	3956	4214	4232	4268
4274	4305	4308	5307	5366
5619	5771	5785	5808	5864
5994	6012	6037	6309	6385
6394	6451	6575	6584	6697
6712	6831	6923	6930	6933
6941	6943	6957	6965	6972
6992	6995	7003	7089	7116
7125	7131	7195	7211	7212
7232	7243	7246	7281	7342
7389	7393	7888	7899	7908
7926	7959	7983	8139	8145
8146	8147	8148	8164	8193
8200	8293	8308	8323	8331
8377	8834	8962	9005	9012
9051	9066	9095	9118	9205
9223	9262	9270	9300	9317
9338	9381	9414	9418	9474
9522	9536	9572	9619	9657
9659	9661	9666	9723	9754
9807	9817	9835	9861	9928
9944	9966	9994	9999	10036
10070	10093	10097	10099	10107
10123	10152	10184	10188	10201
10204	10207	10234	10269	10383
10388				

Silicon

4	54	56	81	98
102	113	141	291	417
419	423	452	497	517
518	555	580	591	612
622	623	628	637	641
665	695	712	716	810
838	850	851	881	921
944	961	1017	1190	1193
1263	1297	1414	1460	1535
1558	1559	1590	1591	1611

Silicon (continued)

1642	1686	1709	1710	1721
1740	1785	1798	1818	1832
1843	1875	1889	1898	1912
1954	2354	2429	2498	2504
2506	2507	2526	2550	2596
2662	2684	2689	2735	2774
2865	2933	2940	2941	2956
2965	2987	3075	3355	3461
3753	3790	3976	3997	4005
4193	4198	4198	4205	4258
5383	5384	5416	5720	5739
5759	5776	5884	6086	6201
6301	6352	6398	6404	6453
6684	6723	6844	6845	6967
6968	6975	6977	7004	7004
7101	7170	7235	7293	7301
7302	7338	7354	7403	7404
7407	7424	7974	8059	8085
8098	8124	8159	8200	8240
8241	8304	8374	8395	8810
8870	8880	8926	8930	9002
9026	9065	9088	9269	9301
9330	9437	9462	9472	9499
9537	9543	9546	9571	9610
9698	9733	9734	9735	9736
9746	9804	9821	9865	9896
9897	10011	10016	10038	10100
10101	10102	10105	10126	10150
10163	10180	10200	10214	10263
10318				

Silver

13	30	31	82	83
103	125	130	141	166
167	193	205	255	334
344	363	364	365	366
386	419	423	436	460
509	549	589	608	614
619	631	635	638	674
686	688	697	704	709
713	738	741	760	790
798	805	824	832	845
879	894	941	984	1014
1018	1027	1028	1036	1042
1045	1055	1066	1093	1095
1106	1111	1118	1123	1124
1129	1132	1134	1165	1166
1172	1190	1193	1226	1247
1275	1277	1320	1349	1354
1371	1375	1412	1466	1471
1472	1477	1478	1492	1512
1525	1542	1567	1584	1614
1615	1655	1672	1699	1702
1710	1712	1737	1797	1825
1830	1832	1873	1920	1953
1955	2144	2154	2308	2333

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Silver (continued)

2447	2508	2511	2523	2548
2550	2612	2625	2639	2671
2689	2694	2699	2715	2766
2776	2819	2852	2966	2999
3059	3374	3383	3394	3418
3487	3738	3740	3810	3949
3957	3988	3998	4191	4214
4215	4230	4253	4303	4308
4328	5307	5344	5369	5394
5438	5579	5619	5703	5726
5728	5785	5808	5868	5870
5977	6012	6037	6061	6202
6203	6217	6222	6226	6242
6244	6307	6323	6351	6372
6375	6378	6388	6407	6436
6444	6451	6574	6575	6584
6587	6717	6824	6849	6925
6930	6943	6947	6948	6949
6981	7003	7004	7094	7118
7119	7146	7147	7166	7175
7181	7195	7209	7212	7229
7254	7281	7314	7360	7373
7389	7393	7394	7407	7414
7934	7959	7983	7997	8138
8139	8143	8145	8146	8147
8148	8200	8239	8244	8338
8342	8356	8363	8377	8834
8836	8862	9005	9011	9012
9051	9052	9066	9095	9121
9159	9198	9219	9237	9244
9256	9268	9300	9308	9317
9327	9338	9418	9461	9474
9475	9522	9525	9532	9536
9546	9548	9554	9585	9619
9641	9659	9673	9695	9701
9726	9754	9807	9817	9832
9835	9836	9870	9873	9892
9911	9916	9968	9999	10092
10093	10099	10123	10156	10184
10186	10201	10204	10205	10207
10221	10234	10329	10375	10383

Sodium (continued)

544	553	555	561	564
606	625	635	637	641
652	659	662	686	688
699	702	704	706	707
714	730	735	760	767
775	789	810	812	829
830	831	834	842	845
848	849	850	853	879
887	888	894	895	903
923	933	934	939	942
945	961	966	968	969
977	979	992	993	995
1045	1055	1061	1063	1086
1089	1118	1134	1138	1165
1193	1216	1217	1226	1227
1251	1263	1269	1272	1283
1289	1311	1319	1332	1344
1351	1354	1376	1392	1395
1398	1419	1438	1452	1456
1460	1466	1471	1472	1477
1492	1495	1505	1510	1533
1540	1542	1552	1558	1559
1606	1616	1617	1649	1664
1699	1703	1707	1709	1710
1715	1725	1736	1737	1746
1751	1766	1780	1785	1800
1813	1819	1857	1897	1925
1936	1957	1968	1976	1983
2121	2141	2306	2365	2376
2422	2498	2502	2508	2519
2523	2548	2550	2579	2619
2651	2657	2662	2673	2680
2688	2689	2690	2707	2711
2717	2735	2751	2759	2766
2775	2797	2801	2819	2852
2871	2882	2963	2973	2999
3350	3365	3368	3369	3383
3470	3483	3708	3723	3736
3769	3791	3808	3964	3990
4191	4193	4198	4201	4216
4231	4248	4258	4263	4281
4283	4285	4286	4293	4329
4347	5326	5343	5370	5384
5390	5399	5402	5500	5510
5619	5697	5703	5725	5771
5785	5869	5924	5931	5936
5981	6005	6011	6014	6037
6055	6056	6062	6063	6067
6199	6209	6223	6226	6301
6307	6359	6375	6376	6382
6442	6453	6572	6574	6668
6687	6688	6720	6734	6754
6826	6827	6922	6929	6930
6936	6937	6938	6939	6941
6951	6953	6963	6965	6967
6973	6976	6982	6991	6999
7004	7073	7077	7082	7092

Sodium

4	6	7	22	29
35	54	55	56	73
79	102	103	104	107
123	136	141	155	166
167	174	175	189	205
215	237	238	246	252
259	260	274	275	290
300	328	330	370	371
382	385	398	400	413
414	417	418	419	423
429	432	433	442	450
454	455	467	487	488
489	509	511	521	541

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Sodium (continued)

7102	7113	7123	7125	7129
7164	7165	7177	7212	7218
7240	7243	7254	7260	7282
7295	7304	7305	7306	7341
7351	7360	7371	7372	7373
7375	7380	7393	7407	7416
7421	7896	7898	7901	7934
7938	7945	7948	7978	7996
8001	8017	8021	8054	8055
8062	8075	8080	8085	8088
8099	8124	8127	8133	8139
8141	8143	8145	8146	8147
8148	8200	8235	8239	8240
8252	8254	8296	8299	8328
8331	8339	8345	8351	8363
8390	8392	8827	8834	8836
8885	8964	8989	8992	8993
8995	9000	9012	9017	9040
9051	9057	9086	9095	9123
9134	9152	9154	9159	9165
9170	9219	9225	9230	9237
9247	9280	9290	9317	9318
9325	9351	9393	9395	9415
9435	9446	9459	9460	9473
9480	9518	9525	9530	9543
9547	9559	9562	9563	9568
9580	9583	9609	9621	9623
9626	9627	9675	9678	9679
9694	9695	9707	9725	9734
9735	9742	9744	9746	9747
9749	9761	9762	9765	9791
9812	9817	9822	9823	9848
9861	9876	9877	9924	9932
9937	9938	9946	9965	9996
10022	10050	10065	10076	10099
10100	10101	10104	10106	10107
10116	10135	10137	10139	10156
10160	10161	10170	10171	10176
10181	10201	10204	10206	10207
10214	10234	10236	10263	10269
10275	10276	10283	10293	10312
10318	10339	10353	10360	10375
10383	10388	10391	10403	10411

Strontium (continued)

1332	1334	1340	1665	1697
1699	1710	1727	1737	1766
1797	1800	1890	1982	2006
2523	2548	2550	2676	2689
2852	2977	2984	3383	3483
4272	4329	5500	5619	5755
5771	5785	5951	5989	5991
6002	6016	6037	6055	6064
6067	6317	6375	6376	6574
6584	6729	6754	6936	6939
6962	6963	6965	7021	7164
7168	7232	7292	7316	7389
7935	7938	7948	7959	8054
8088	8140	8141	8376	8837
8914	9086	9205	9276	9279
9300	9428	9459	9532	9536
9629	9659	9679	9694	9717
9735	9823	9835	9893	9917
9946	10093	10101	10112	10184
10236	10269	10321		

Sulfur

22	37	140	141	291
423	437	495	497	588
591	641	652	659	676
688	699	704	705	706
716	767	892	893	897
921	937	977	1045	1057
1085	1124	1177	1193	1215
1218	1237	1354	1378	1455
1456	1471	1477	1479	1520
1559	1570	1601	1621	1649
1709	1711	1720	1778	1782
1785	1818	1857	1870	1898
1965	2129	2148	2149	2550
2689	2751	2764	2794	2849
2948	2963	3709	3716	3723
3793	4193	4227	4258	4285
4300	5510	5543	5923	6086
6410	6412	6446	6568	6973
7004	7172	7231	7240	7296
7351	7874	7880	7931	8124
8200	8308	8395	8846	9012
9322	9341	9346	9407	9428
9446	9563	9568	9586	9694
9782	9825	9861	9929	9946
10012	10165	10249	10341	10371
10383	10391	10427	10428	

Tantalum

9	26	51	97	103
145	147	166	167	179
197	265	266	291	319
367	371	390	419	508
509	544	575	614	637

Strontium

22	54	55	56	67
68	80	103	166	167
214	236	290	442	459
460	469	483	484	485
588	595	614	631	635
676	688	697	704	705
708	714	723	788	803
810	815	829	830	856
879	963	968	1014	1045
1086	1088	1089	1134	1150
1170	1190	1226	1277	1281

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Tantalum (continued)					Terbium (continued)				
641	662	688	698	704	1655	1710	1723	1803	1835
729	760	789	799	820	1945	1957	1959	2689	2694
849	870	879	887	896	3100	3395	3714	5771	5936
910	955	1002	1045	1102	6442	6923	6965	6999	7884
1118	1123	1127	1128	1137	7938	8071	8294	8317	8847
1165	1166	1201	1226	1263	9017	9456	9459	9679	9734
1319	1410	1434	1454	1478	9848	10101	10108	10184	10185
1487	1518	1538	1582	1615	10234	10269	10284	10295	
1616	1655	1699	1709	1710					
1759	1803	1817	1829	1840	Thallium				
1966	2480	2496	2502	2523	89	133	141	146	255
2689	2690	2717	2830	3346	363	365	411	419	697
3383	3387	4310	4411	5500	815	869	883	1172	1212
5786	5936	6356	6376	6383	1603	1710	2006	2525	2643
6442	6443	6574	6575	6707	2689	3793	4221	4310	5619
6725	6833	6963	6965	6966	5984	6226	6676	6678	6972
7145	7149	7152	7164	7167	7232	7460	7919	7934	8807
7254	7281	7360	7865	7867	8826	8838	9474	9728	9841
7937	7938	7948	8108	8109	9872	9916	9968	10092	10122
8239	8297	8310	8836	8837	10219	10290	10328		
9005	9017	9048	9257	9361	Thorium				
9459	9534	9582	9623	9641	40	41	42	54	55
9659	9661	9688	9714	9730	56	104	120	137	166
9734	9839	9848	9995	10056	250	289	290	393	395
10062	10076	10093	10099	10101	421	640	641	656	688
10110	10156	10184	10234	10269	704	708	790	808	815
10348	10352				828	879	973	1042	1045
Technetium					1090	1165	1180	1189	1226
10	11	15	72	697	1277	1361	1371	1391	1401
1220	2673	6574			1404	1439	1454	1477	1494
Tellurium					1498	1531	1699	1709	1722
103	166	167	174	224	1723	1725	1746	1760	1774
270	434	511	588	662	1817	1842	1857	1906	2122
676	688	705	760	792	2437	2447	2550	2636	2714
845	879	894	1118	1122	2852	2882	2976	3105	3483
1226	1240	1246	1300	1412	3958	4198	4203	4302	4391
1441	1477	1567	1603	1702	5323	5328	5735	5771	5785
1710	1848	2537	2550	2640	5788	5790	5867	5936	6069
2689	3730	3731	4321	5307	6376	6393	6442	6739	6950
5336	5619	5716	5730	5948	6963	6965	6981	7108	7145
6385	6394	6934	6972	6992	7152	7206	7254	7333	7360
7003	7081	7116	7212	7281	7416	7865	7937	7938	7939
7869	7888	7919	7959	8067	7943	8139	8141	8302	8310
8078	8110	8193	8962	8980	8326	8331	8333	8371	8832
9118	9159	9253	9270	9329	9005	9012	9017	9276	9459
9356	9661	9916	9928	9944	9464	9473	9528	9534	9562
9999	10092	10115	10134		9641	9679	9775	9803	9830
Terbium					9835	9840	9846	9848	9873
79	103	115	267	439	9938	10070	10100	10101	10110
544	662	688	704	767	10156	10197	10228	10234	10236
1042	1226	1324	1478	1649	10253	10263	10269	10332	10343
					10352	10383			

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Thulium

115	439	544	588	662
676	705	713	811	1042
1226	1344	1478	1584	1655
1710	1803	1835	1945	1959
2689	3714	5308	5936	7938
9456	10108	10295		

Tin

141	149	174	205	508
509	537	575	588	631
676	702	705	790	799
820	845	870	894	941
1042	1045	1113	1123	1124
1125	1133	1135	1165	1166
1191	1226	1349	1385	1564
1709	1710	1856	1863	2144
2296	2430	2523	2601	2640
2654	2689	2694	2717	2769
2950	3383	3730	3731	3793
4268	4328	5336	5344	5369
5619	5712	5977	6226	6322
6323	6337	6383	6575	6587
6947	6949	6956	6957	7164
7167	7212	7223	7225	7232
7254	7281	7360	7951	7959
8060	9095	9159	9174	9237
9244	9250	9300	9356	9436
9573	9723	9727	9817	9835
9861	9862	9937	9946	9964
10036	10110	10156	10234	10304
10352	10411			

Titanium

78	83	140	205	291
659	697	760	821	841
851	953	1124	1134	1172
1226	1340	1363	1375	1442
1501	1710	1797	1863	1898
1911	1965	2306	2499	2550
2628	2689	2689	2965	3355
3560	3793	4189	4211	4286
6065	6963	7111	7232	7938
7996	8065	8239	8240	8812
8911	9012	9230	9459	9473
9498	9543	9734	10050	10099
10100	10101	10214	10269	10383
10402				

Tungsten

26	65	81	103	140
141	145	165	166	167
189	205	230	246	252
291	304	347	371	409
419	504	508	548	549

Tungsten (continued)

575	631	637	659	687
688	698	704	714	726
758	760	767	779	783
799	810	820	824	829
830	849	870	879	893
920	990	1042	1045	1055
1086	1093	1118	1118	1150
1155	1165	1169	1215	1226
1263	1332	1340	1363	1371
1406	1412	1471	1477	1487
1649	1693	1699	1709	1710
1727	1800	1817	1829	1840
1920	1965	2308	2480	2495
2496	2502	2523	2550	2614
2638	2639	2690	2717	2718
2769	2776	2819	2852	2882
2999	3379	3383	3384	3808
3810	3975	3997	4232	4411
5378	5385	5619	5703	5771
5785	6356	6383	6409	6572
6574	6584	6725	6754	6844
6965	7003	7135	7152	7154
7164	7167	7211	7212	7254
7281	7355	7360	7410	7865
7934	7938	8054	8085	8091
8108	8109	8116	8152	8155
8247	8310	8362	8379	8380
8381	8836	8964	8980	8987
8992	9005	9012	9103	9159
9623	9641	9664	9667	9730
9744	9799	9811	9873	9938
10062	10101	10110	10156	10196
10207	10269	10292	10321	10375
10383				

Uranium

14	52	53	120	142
143	151	166	167	209
213	217	233	252	269
288	290	321	326	327
329	332	349	377	393
410	412	419	448	449
461	472	490	492	511
514	530	564	572	588
614	640	641	656	676
688	692	704	705	708
728	737	760	790	808
810	819	824	828	841
866	879	880	909	920
946	952	971	1019	1025
1042	1059	1076	1079	1090
1109	1122	1124	1134	1180
1189	1190	1212	1226	1302
1325	1357	1361	1371	1389
1404	1428	1429	1439	1442
1468	1477	1478	1494	1498

ACTIVATION ANALYSIS—ELEMENT DETERMINED

Uranium (continued)

1527	1531	1597	1607	1652
1699	1709	1723	1725	1727
1797	1817	1857	1865	1901
1906	1960	1973	2437	2474
2550	2673	2754	2852	3074
3391	3483	3755	3808	3958
3987	4198	4208	4381	5262
5323	5328	5343	5439	5447
5551	5716	5732	5735	5765
5771	5785	5788	5790	5867
5948	5953	5965	6012	6077
6331	6346	6375	6376	6387
6439	6441	6459	6691	6702
6713	6714	6739	6748	6951
6963	6965	6983	6985	7035
7216	7220	7252	7254	7256
7360	7364	7865	7869	7906
7928	7938	7940	7943	7948
7959	7975	8006	8069	8088
8094	8139	8140	8145	8174
8176	8180	8190	8208	8236
8239	8302	8325	8371	8372
8832	8835	8837	8854	8874
8899	8913	8964	9060	9178
9206	9253	9269	9276	9473
9528	9531	9551	9572	9613
9616	9644	9655	9679	9682
9683	9692	9720	9734	9767
9775	9803	9830	9840	9864
10061	10070	10079	10099	10101
10110	10140	10142	10145	10194
10197	10214	10224	10231	10232
10258	10260	10269	10326	10343
10349	10350	10358	10378	10402
10432				

Vanadium (continued)

5410	5701	5958	5970	5995
6003	6065	6309	6712	6734
6743	6922	6928	6929	6933
6940	6963	6970	7004	7111
7123	7232	7246	7303	7311
7331	7342	7901	7930	7938
8017	8120	8181	8200	8299
8327	8331	8375	8390	8881
9012	9051	9106	9153	9205
9287	9327	9412	9417	9425
9435	9459	9473	9509	9516
9568	9586	9627	9679	9695
9704	9724	9734	9746	9812
9866	9912	9937	9944	9946
10050	10100	10110	10118	10156
10170	10201	10214	10269	10383
10388	10391	10407		

Xenon

1412	1539	1891	2689	
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Ytterbium

115	267	439	588	641
676	705	713	1008	1021
1042	1055	1226	1344	1709
1710	1835	1882	1945	1959
2689	2694	2735	2931	3100
3384	3714	3780	5447	5771
5936	6043	6442	6923	6965
6999	7938	8071	8141	8239
8317	8331	8820	9017	9110
9111	9456	9459	9473	9641
9679	9734	9848	10076	10099
10101	10184	10236	10269	10295
10332	10343	10402		

Vanadium

47	68	80	81	89
107	140	165	205	230
257	301	305	409	419
468	509	598	607	635
637	638	641	686	687
690	697	702	704	752
758	760	781	797	810
821	824	849	851	883
893	895	941	1001	1086
1088	1093	1097	1145	1150
1172	1226	1254	1263	1289
1298	1313	1317	1319	1340
1442	1460	1471	1492	1526
1565	1631	1665	1709	1710
1727	1749	1788	1911	1938
1965	1980	2495	2499	2550
2601	2662	2689	2696	2707
2766	2950	3344	3713	3793
4191	4206	4232	4270	4314

Yttrium

103	115	227	267	291
544	631	659	662	688
704	760	767	879	1014
1055	1340	1374	1403	1413
1474	1596	1649	1699	1710
1725	1835	1945	1959	1978
2498	2550	2614	2657	2689
2735	3100	3997	4214	6079
6584	7021	7964	8005	8982
9300	9435	9502	9522	9617

Zinc

33	34	54	55	56
63	68	78	83	103
116	138	140	141	166
167	174	205	246	252

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Zinc (continued)

255	263	290	291	322
328	358	370	371	418
419	442	454	504	508
509	513	544	584	586
588	606	614	622	625
635	637	641	648	652
662	676	686	688	699
704	705	706	707	710
714	726	767	789	790
799	804	810	815	824
829	830	834	845	870
879	888	894	899	920
941	942	968	977	985
987	1005	1042	1045	1063
1068	1069	1086	1089	1105
1107	1113	1118	1123	1133
1134	1135	1138	1159	1165
1166	1190	1193	1210	1211
1215	1223	1240	1244	1254
1263	1273	1275	1277	1286
1307	1332	1344	1354	1373
1384	1411	1412	1432	1434
1438	1441	1456	1466	1469
1471	1472	1477	1492	1515
1564	1601	1613	1616	1645
1648	1670	1677	1678	1699
1703	1707	1708	1709	1710
1723	1736	1737	1738	1745
1766	1767	1797	1800	1815
1825	1828	1856	1920	1965
2124	2296	2308	2333	2386
2430	2447	2508	2509	2523
2534	2539	2548	2550	2578
2601	2613	2619	2638	2639
2640	2654	2665	2669	2673
2688	2689	2690	2699	2717
2718	2721	2739	2766	2769
2776	2801	2819	2848	2852
2870	2871	2876	2931	2950
2965	2999	3059	3061	3075
3382	3383	3418	3475	3483
3485	3487	3708	3723	3730
3731	3732	3740	3957	3961
4153	4232	4253	4263	4267
4286	4291	4308	4315	4329
5307	5336	5345	5369	5370
5383	5386	5390	5438	5448
5502	5619	5697	5703	5725
5728	5753	5771	5785	5808
5864	5869	5924	5944	5950
5977	5981	5991	5995	6003
6008	6012	6016	6037	6061
6067	6199	6202	6203	6207
6226	6307	6309	6328	6337
6348	6356	6375	6383	6397
6407	6451	6574	6587	6671
6697	6712	6715	6716	6754

Zinc (continued)

6831	6845	6849	6923	6924
6929	6930	6931	6933	6941
6943	6949	6953	6963	6965
6972	6981	6999	7004	7077
7092	7094	7116	7125	7129
7164	7166	7195	7211	7212
7232	7243	7246	7254	7257
7260	7281	7299	7316	7360
7362	7370	7391	7393	7407
7877	7879	7933	7934	7935
7938	7948	7959	7983	8017
8052	8054	8080	8088	8110
8124	8135	8139	8140	8143
8145	8146	8147	8148	8155
8156	8193	8196	8200	8202
8253	8331	8349	8350	8353
8357	8375	8382	8384	8402
8804	8827	8829	8834	8836
8880	8901	8907	8987	8988
9000	9012	9051	9052	9063
9066	9084	9095	9098	9118
9159	9205	9219	9244	9256
9270	9276	9285	9287	9317
9323	9327	9356	9373	9374
9418	9440	9455	9459	9460
9474	9498	9504	9532	9548
9572	9619	9620	9636	9641
9643	9654	9659	9673	9686
9695	9719	9722	9723	9726
9754	9771	9776	9781	9807
9814	9817	9835	9861	9873
9904	9915	9916	9924	9932
9938	9939	9946	9950	9952
9968	9978	9989	9995	9999
10022	10036	10037	10050	10070
10084	10087	10092	10093	10106
10107	10123	10136	10152	10156
10172	10184	10188	10194	10201
10204	10207	10234	10269	10305
10334	10375	10379	10383	10383
10388				

Zirconium

9	24	83	103	166
167	176	212	232	398
507	509	588	614	641
676	688	704	705	767
815	879	988	1022	1045
1124	1165	1173	1226	1375
1381	1410	1477	1481	1537
1646	1709	1710	1765	1860
2498	2550	2689	2717	2735
2965	3363	3488	4317	5500
5771	5936	6227	6297	6574
6575	6943	6957	6965	6994
7004	7145	7232	7393	7460

ACTIVATION ANALYSIS -- ELEMENT DETERMINED

Zirconium (continued)					5873	5961	5963	5964	6049
7938	7948	7949	7959	8047	6077	6079	6220	6228	6343
8080	8085	8088	8173	8184	6367	6939	6959	7004	7091
8191	8192	8197	8200	8239	7096	7166	7236	7294	7309
8310	8321	8392	8812	8813	7377	7431	7939	7944	8074
8980	8985	9047	9064	9459	8088	8122	8200	8235	8848
9733	9734	9846	9915	9920	8932	8982	8991	9037	9086
9984	10022	10083	10099	10100	9117	9128	9129	9334	9364
					9369	9370	9435	9515	9658
					9798	9858	9859	9860	10044
Rare Earths					10093	10100	10159	10179	10189
7	102	166	167	227	10257	10282	10401	10422	
258	544	879	895	925					
1015	1016	1045	1047	1187					
1205	1235	1257	1323	1356	Actinides				
1404	1474	1477	1681	1774	9281				
1839	2145	2327	2369	2550					
2741	2763	2932	3376	3383	Lanthanides				
3386	3395	3397	3732	3810					
4219	4322	5347	5359	5500	1205	1285	6207	6455	6586
5705	5706	5707	5778	5862	7948	8910	9092	9255	9618



APPENDIX II



APPENDIX II

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ACTIVATION ANALYSIS—MATRIX ANALYZED

Air, Atmosphere

184	185	476	562	966
1004	1036	1081	1083	1266
1543	1569	1874	1924	2553
2693	2981	2998	5397	5967
6017	6058	6307	6361	6362
6363	6364	6365	6393	6921
6922	6923	7090	7120	7123
7146	7147	7312	7328	7334
7405	7901	8017	8144	8181
8290	8331	8390	8902	8920
8994	9004	9012	9051	9052
9096	9105	9160	9263	9287
9357	9363	9503	9558	9602
9611	9666	9694	9695	9704
9709	9752	9806	9807	9904
9933	9934	9937	9938	9939
9941	9942	9951	9955	10050
10060	10170	10201	10207	10239
10287	10323	10344	10383	10384
10392				

Biological, General, including Virus

(continued)

1241	1288	1296	1308	1317
1370	1389	1436	1439	1461
1506	1534	1567	1577	1625
1644	1660	1665	1668	1669
1687	1702	1703	1704	1705
1706	1762	1769	1781	1873
1892	1894	1895	1899	1963
1970	1977	1982	2124	2126
2422	2426	2445	2520	2554
2563	2571	2584	2585	2603
2642	2657	2673	2707	2718
2738	2759	2791	2792	2793
2946	2964	2969	2971	2985
2998	3060	3086	3360	3468
3469	3482	3503	3507	3508
3728	3769	3985	3989	4002
4004	4194	4207	4221	4261
4267	4274	4315	4376	4377
5358	5596	5626	5699	5760
5774	5785	5790	5808	5847
5848	5874	5926	5945	5947
5979	5980	5982	5983	5985
5986	5987	5988	5989	5993
5994	5995	5997	5998	6016
6024	6051	6206	6207	6304
6328	6438	6452	6459	6699
6737	6838	6930	6932	6942
6944	7002	7035	7085	7087
7131	7139	7141	7187	7188
7189	7191	7195	7224	7240
7334	7357	7362	7403	7429
7913	7927	7950	7965	8009
8010	8011	8013	8055	8072
8076	8092	8094	8124	8130
8131	8135	8136	8164	8285
8292	8298	8339	8340	8341
8342	8352	8411	8824	8902
8903	8906	8980	8988	9042
9120	9154	9172	9179	9327
9329	9343	9354	9402	9414
9429	9443	9457	9458	9489
9490	9600	9601	9602	9603
9674	9680	9713	9752	9754
9783	9791	9810	9835	9837
9878	9887	9898	9925	9927
9933	9964	9969	10057	10111
10138	10191	10244	10248	10270
10308	10309	10310	10311	10380
10393	10396	10421	10424	10429

Archaeological Specimens

13	351	533	561	619
1032	1132	1301	1306	1376
1897	1926	2495	2575	2762
2945	3738	3998	4230	4328
5579	5729	5742	5788	6209
6215	6217	6224	6227	6241
6242	6244	6372	6378	6388
6391	6436	6457	6458	6570
6587	6948	6949	6950	7083
7209	7260	7333	7340	7375
7416	7873	7937	8019	8252
8862	8999	9161	9244	9304
9403	9450	9534	9560	9621
10010	10103			

Art

1504	1825	1834	2589	2694
3988	6031	6061	6241	6570
6849	6947	6948	7873	8095
8999	9027	9304	9403	9560
9747	10103			

Biological, General, including Virus

35	47	59	68	80
123	192	214	284	308
310	317	320	425	476
486	541	592	594	595
638	651	709	717	811
839	848	894	930	939
965	975	976	999	1056
1086	1088	1100	1105	1120
1125	1190	1195	1198	1224

Biological, Blood

33	34	62	63	64
66	123	138	237	263
308	328	335	383	405
476	488	489	533	542
560	570	648	657	710

ACTIVATION ANALYSIS – MATRIX ANALYZED

Biological, Soft Tissue, includes

Hair, Nails, and Hoofs (continued)

10060	10102	10121	10122	10123
10124	10130	10152	10178	10188
10204	10210	10243	10264	10275
10283	10288	10312	10333	10394

Biological, Wood

333	1100	1114	6670	8254
8844	9395	9609	9802	10344

Biological, Other Botanical

62	63	65	66	160
317	454	459	520	533
553	571	636	702	709
723	740	773	804	810
811	866	880	933	934
1087	1108	1230	1274	1361
1484	1748	1749	1782	1805
1873	1970	1971	2347	2736
2876	2892	2929	3092	3341
3391	3508	3713	3714	3747
3791	3982	3991	4320	5327
5445	5571	5725	5924	5925
5978	5990	5991	6080	6281
6295	6409	6438	6704	6842
6851	6852	6926	6939	6941
7125	7182	7242	7338	7393
7893	7921	7983	8143	8345
8346	8347	8364	8365	8848
8933	8986	9030	9031	9066
9226	9278	9332	9402	9460
9612	9650	9803	9901	9902
9914	9950	9952	9954	9961
10049	10087	10116	10160	10292
10305	10394			

Biological, Bone, Teeth

79	136	194	308	378
413	485	512	521	675
709	714	741	829	830
856	968	1086	1100	1170
1332	1436	1439	1446	1457
1512	1697	1752	1780	1800
1873	1980	1982	2565	2573
2629	2633	2685	3503	3506
3725	3726	3958	3982	4319
6003	6004	6587	6685	6686
6715	7369	7370	7412	7882
7999	8054	9019	9237	9246
9355	9512	9547	9548	9554
9647	9655	9749	9781	9883
9893	10107	10273	10288	10344

Biological, Fish

164	165	409	757	758
1109	1172	1257	1395	1778
2668	2973	5746	6023	6945
8810	8922	8980	9650	9710
9712	9863	9943	9947	9948
9950	10070	10084	10087	10090
10119	10205	10241	10397	

Biological, *in vivo*

155	962	1806	3078	3745
6014	6015	6047	6827	7084
7102	7318	7319	7353	7372
7426	7429	7968	8012	8093
8188	8250	8411	8828	8877
8900	8960	8977	9016	9018
9053	9094	9368	9476	9518
9550	9556	9599	9689	9739
9760	9761	9822	9887	10176
10206	10276	10335	10353	10360

Biological, Shell Fish

164	165	409	723	1087
1094	1257	1277	1395	1401
1457	1781	5726	6936	8922
8980	9678	9710	9863	9978
10087	10090			

Biological, Seaweed

164	165	409	810	1109
1727	2546	2732	6375	7095
7921	8922	9863		

Cellulose – Textiles

317	333	402	573	717
1007	1057	1073	1087	1110
1114	1239	1472	1478	1583
1584	1888	2481	2493	2655
2803	5872	6406	7077	7160
7373	7382	8182	8844	8870
8911	9097	9151	9386	9623
9976	9991	10032	10170	

Biological, Leaves, Needles

67	310	636	702	709
740	953	1086	1230	1234
1436	1930	2501	2773	2892
3391	3509	3791	4269	5370
5935	6943	7257	8245	8848
9000	9258	9418	9616	9653
9932	9966	10230	10258	10305

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Cement</p> <p style="padding-left: 20px;">1917 2323 2934 6352 6721</p> <p style="padding-left: 20px;">6975 9026 9173 9610 9675</p> <p>Chromatography and Ion Exchange – Paper, Resins, Reagents, <i>etc.</i></p> <p style="padding-left: 20px;">511 1664 2141 4406 5407</p> <p style="padding-left: 20px;">5930 7949 8021 8192 8328</p> <p style="padding-left: 20px;">9227 10331</p> <p>Clays</p> <p style="padding-left: 20px;">289 433 518 1385 1495</p> <p style="padding-left: 20px;">3370 6352 8120 10279</p> <p>Coal</p> <p style="padding-left: 20px;">57 113 477 612 1067</p> <p style="padding-left: 20px;">1414 1646 1798 1889 1898</p> <p style="padding-left: 20px;">2504 2507 2622 2933 2941</p> <p style="padding-left: 20px;">3076 3803 5621 6301 7202</p> <p style="padding-left: 20px;">7293 7364 7899 8323 9232</p> <p style="padding-left: 20px;">9233 9510 9698 9765 9896</p> <p style="padding-left: 20px;">10165 10249 10371 10398</p> <p>Corrosion Products</p> <p style="padding-left: 20px;">97 482 4327 6754 7365</p> <p style="padding-left: 20px;">8891</p> <p>Detergents</p> <p style="padding-left: 20px;">309</p> <p>Drugs</p> <p style="padding-left: 20px;">90 573 810 1077 1203</p> <p style="padding-left: 20px;">1205 1314 1746 2588 2648</p> <p style="padding-left: 20px;">2739 2805 4329 5751 5756</p> <p style="padding-left: 20px;">6314 6673 6679 6687 6746</p> <p style="padding-left: 20px;">6945 8242 8422 9010 9166</p> <p style="padding-left: 20px;">9342 9410 9494 9598 9620</p> <p style="padding-left: 20px;">9891 10000 10010 10268</p> <p>Dusts</p> <p style="padding-left: 20px;">1036 1569 1606 1962 7090</p> <p style="padding-left: 20px;">8181 8390 8902 8958 9297</p> <p style="padding-left: 20px;">9704 9904 9955 10157 10323</p> <p>Food</p> <p style="padding-left: 20px;">339 476 588 676 699</p> <p style="padding-left: 20px;">702 705 707 709 935</p> <p style="padding-left: 20px;">963 1024 1057 1096 1788</p> <p style="padding-left: 20px;">1890 1913 1982 2563 2569</p> <p style="padding-left: 20px;">2689 2701 2736 2838 3092</p>	<p style="text-align: center;">Food (continued)</p> <p style="padding-left: 20px;">3505 4323 5951 5984 5996</p> <p style="padding-left: 20px;">6024 6308 6359 6755 6940</p> <p style="padding-left: 20px;">6944 7126 7211 7219 7297</p> <p style="padding-left: 20px;">7299 7329 7332 7413 7907</p> <p style="padding-left: 20px;">7911 7927 8008 8422 8920</p> <p style="padding-left: 20px;">8980 9049 9169 9274 9328</p> <p style="padding-left: 20px;">9333 9410 9425 9449 9508</p> <p style="padding-left: 20px;">9576 9597 9619 9655 9669</p> <p style="padding-left: 20px;">9713 9925 9935 9947 9948</p> <p style="padding-left: 20px;">9973 10046 10060 10130 10212</p> <p style="padding-left: 20px;">10281 10395 10400</p> <p style="text-align: center;">Forensic, General</p> <p style="padding-left: 20px;">112 134 444 520 551</p> <p style="padding-left: 20px;">706 763 1031 1056 1149</p> <p style="padding-left: 20px;">1290 1689 2517 2603 2605</p> <p style="padding-left: 20px;">2607 2647 2673 2765 2958</p> <p style="padding-left: 20px;">2959 3486 3968 4006 5401</p> <p style="padding-left: 20px;">5710 6018 6020 6021 6025</p> <p style="padding-left: 20px;">6027 6028 6030 6042 6210</p> <p style="padding-left: 20px;">6225 6311 6315 6333 6377</p> <p style="padding-left: 20px;">6835 6847 6863 6952 7085</p> <p style="padding-left: 20px;">7190 7323 7324 7348 7384</p> <p style="padding-left: 20px;">8030 8032 8076 8132 8150</p> <p style="padding-left: 20px;">8394 8924 9044 9217 9275</p> <p style="padding-left: 20px;">9384 9385 9399 9400 9401</p> <p style="padding-left: 20px;">9402 9495 9557 9604 9608</p> <p style="padding-left: 20px;">9907 10027 10048 10146 10174</p> <p style="padding-left: 20px;">10265 10361 10363</p> <p style="text-align: center;">Forensic, Hair and Fingernails</p> <p style="padding-left: 20px;">134 198 520 565 584</p> <p style="padding-left: 20px;">593 625 702 706 802</p> <p style="padding-left: 20px;">970 1422 1734 1736 1737</p> <p style="padding-left: 20px;">1928 2143 2517 2548 2570</p> <p style="padding-left: 20px;">2607 2765 2926 2958 3486</p> <p style="padding-left: 20px;">3708 4380 5358 5869 6019</p> <p style="padding-left: 20px;">6037 6038 6039 6040 6041</p> <p style="padding-left: 20px;">6953 6954 6955 7129 7383</p> <p style="padding-left: 20px;">8089 8169 8809 8826 9072</p> <p style="padding-left: 20px;">9134 9191 9316 9317 9318</p> <p style="padding-left: 20px;">9605</p> <p style="text-align: center;">Forensic, Poisons</p> <p style="padding-left: 20px;">706 2517 2605 2607 2765</p> <p style="padding-left: 20px;">3486 5401 6953 9079 9602</p> <p style="text-align: center;">Forensic, Gunpowder Residue</p> <p style="padding-left: 20px;">183 1034 1442 1732 2145</p> <p style="padding-left: 20px;">2464 2517 2605 2607 2765</p> <p style="padding-left: 20px;">2782 2790 2791 2792 2793</p> <p style="padding-left: 20px;">3065 3486 3504 5401 5750</p> <p style="padding-left: 20px;">6034 6035 6036 6312 6839</p>
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ACTIVATION ANALYSIS—MATRIX ANALYZED

Forensic, Gunpowder Residue (continued)					Isotopic Analysis					
6953	7086	8100	8288	8324		53	100	110	114	137
8873	9081	9243	9606	9792		160	233	256	261	288
9813	10229					321	332	347	421	448
						449	517	530	737	770
Forensic, Trace Identification						782	784	841	926	1012
1035	1635	1715	1736	2144		1019	1023	1059	1062	1070
2517	2605	2607	2645	2647		1079	1101	1357	1362	1377
2648	2765	2782	2790	2791		1415	1416	1427	1442	1457
2792	2793	2931	3486	3504		1532	1576	1668	1678	1704
4263	4286	4329	5401	5543		1706	1726	1811	1857	1865
6026	6029	6032	6033	6045		1872	1906	1914	1921	2303
6048	6313	6314	6376	6951		2473	2540	2543	2546	2618
6953	7996	8031	8095	8209		2627	2634	2687	2695	2727
8242	8289	8291	8809	8858		2731	2737	2754	3074	3081
8860	8903	8957	9191	9336		3102	3711	3959	3965	4208
9494	9607	9747	9793	9813		5295	5435	5449	6043	6073
9892	9906	10031	10032	10236		6346	6366	6439	6450	6582
10362	10364	10386	10388	10391		6588	6669	6675	6683	6946
						6960	6983	7013	7127	7216
						7220	7250	7894	8035	8174
Glass						8176	8180	8190	8198	8201
274	275	407	1117	1472		8208	8282	8325	8413	8861
5566	5919	5933	5968	6033		8887	9084	9087	9100	9133
7948	7958	8209	8295	8860		9175	9178	9281	9282	9366
8899	9076	9379	9611	9804		9371	9531	9577	9581	9692
10236	10328	10332	10339	10432		9720	9729	9874	10094	10224
						10338	10341	10349	10350	10378
						10381	10382			
Inorganic Compounds (General)					Liquids, excluding Water and Sea Water					
79	82	130	196	200		279	573	1107	1351	1361
205	313	437	438	499		1374	1442	1879	1882	2511
514	519	631	659	670		3374	3379	3393		
702	712	824	825	845						
986	1014	1028	1067	1072						
1112	1116	1129	1202	1228						
1248	1351	1404	1437	1510						
1528	1711	1713	1720	1725						
1774	1899	1939	1968	2052						
2498	2543	2546	2845	2922						
2989	4214	5499	6382	6976						
7174	7217	7902	8843	8915						
9247	9283	9346	9424	9569						
9786	10053	10278	10368							
In-stream Analysis					Metals and Alloys (General)					
169	206	207	219	445		3	80	241	264	279
632	791	1055	1302	2006		346	408	426	453	500
2410	3753	4392	5578	5581		591	631	655	703	704
5748	5764	6229	7030	7031		707	712	755	756	805
7198	7202	7302	7342	8177		806	819	821	824	921
8178	8312	8322	8868	8975		1030	1060	1067	1088	1093
9167	9289	9359	9381	9553		1103	1113	1124	1190	1193
9584	9588	9886	10002	10005		1321	1361	1438	1441	1460
10016	10043	10165	10173	10254		1522	1604	1739	1849	2480
10267	10299	10367	10369	10428		2550	2562	2662	2678	2686
						2802	2922	2936	2949	2970
						2978	3070	3090	3502	3746
						3768	3977	4196	4197	4211
						4215	5426	5772	5932	5968
						6593	6722	6725	6742	6750
						6752	6821	6844	7011	7012
						7015	7142	7284	7285	7308
						7417	8037	8167	8395	8405
						8859	8866	8890	8916	8971
						9074	9201	9204	9213	9234

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Metals and Alloys (General) (continued)

9238	9294	9320	9546	9573
9670	9716	9732	9773	10061
10235	10246	10304	10429	

Meteorites and Tektites (continued)

10292	10347	10382	10416	10417
10430				

Meteorites and Tektites

9	26	39	40	41
42	84	85	86	96
142	143	145	146	158
186	187	199	209	212
217	226	268	269	410
411	412	434	436	439
469	470	490	493	528
529	548	563	587	616
683	698	721	736	768
776	778	779	817	964
988	1002	1010	1012	1017
1022	1076	1101	1117	1122
1145	1155	1168	1169	1172
1173	1174	1176	1187	1209
1210	1212	1214	1222	1251
1275	1297	1307	1323	1356
1381	1386	1431	1433	1486
1493	1494	1498	1502	1566
1571	1634	1693	1718	1719
1793	1813	1954	1959	2296
2338	2474	2506	2509	2641
2735	2774	2991	3352	3467
3476	3774	4253	4268	4290
5262	5307	5343	5365	5448
5591	5716	5717	5718	5719
5720	5721	5759	5775	5884
5948	5958	6050	6214	6386
6387	6389	6390	6399	6405
6587	6689	6739	6749	6822
6957	6958	6964	6968	6970
7107	7169	7197	7210	7223
7235	7303	7304	7306	7310
7311	7371	7377	7385	7386
7405	7424	7869	7885	7888
7933	7940	7974	7981	8006
8062	8085	8197	8198	8299
8302	8304	8383	8413	8807
8869	8912	8964	8965	8966
8967	8968	8984	8985	9073
9084	9087	9118	9152	9170
9206	9253	9269	9270	9302
9403	9415	9427	9435	9437
9521	9528	9541	9542	9561
9589	9627	9639	9646	9661
9714	9723	9729	9733	9753
9775	9797	9808	9829	9838
9842	9845	9846	9849	9858
9861	9862	9867	9916	9918
9966	10036	10134	10135	10136
10144	10145	10159	10181	10184
10217	10218	10219	10263	10280

Minerals

10	11	15	72	73
96	98	104	120	121
122	151	171	189	222
224	225	239	240	249
250	354	360	366	380
393	397	429	461	469
478	486	522	548	562
683	695	735	739	742
750	783	841	924	941
1015	1016	1081	1082	1083
1092	1094	1107	1109	1137
1178	1213	1216	1280	1293
1294	1356	1381	1393	1403
1427	1431	1432	1433	1435
1454	1457	1458	1460	1466
1474	1480	1495	1513	1518
1527	1528	1538	1549	1550
1566	1652	1678	1817	1859
1863	1885	1906	1952	1970
1978	2318	2354	2431	2526
2636	2644	2669	2684	2688
2690	2720	2747	3366	3367
3375	3386	3387	3395	3414
3460	3501	3740	3766	4282
5320	5325	5343	5350	5406
5592	5705	5706	5707	5767
5852	5934	5949	5961	5962
5963	5965	6074	6204	6205
6222	6227	6343	6443	6454
6684	6701	6707	6845	6956
6959	6961	6972	7151	7327
7361	7367	7385	7418	7990
8043	8044	8047	8074	8082
8083	8118	8191	8363	8373
8374	8379	8421	8820	8833
8850	8856	8909	8919	8930
8975	8998	9003	9005	9010
9086	9128	9131	9133	9155
9176	9239	9338	9345	9402
9464	9465	9492	9506	9533
9559	9564	9582	9658	9659
9679	9683	9702	9730	9731
9797	9818	9851	9853	9870
9871	9873	9876	9957	9975
9987	9998	10001	10011	10016
10077	10078	10080	10127	10148
10163	10180	10209	10263	10297
10298	10299	10301	10303	

Ores

14	120	147	169	170
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ACTIVATION ANALYSIS—MATRIX ANALYZED

Ores (continued)

172	210	213	249	265
266	289	291	301	329
349	380	445	479	546
554	562	612	616	621
630	665	677	695	717
728	768	819	855	908
971	978	984	1011	1025
1047	1081	1082	1083	1102
1111	1137	1150	1162	1190
1195	1196	1280	1334	1340
1356	1374	1413	1435	1458
1521	1527	1550	1551	1553
1554	1555	1556	1581	1611
1623	1651	1671	1677	1857
1859	1886	1906	1955	1961
1978	2283	2348	2350	2444
2499	2688	2690	2747	2801
2888	2904	2940	2965	2966
3063	3076	3105	3342	3362
3371	3372	3373	3374	3376
3379	3385	3395	3460	3462
3464	3473	3501	3739	3760
3803	3948	3976	4005	4214
4307	4309	4311	5323	5356
5428	5551	5581	5761	5767
5950	6054	6358	6368	6392
6405	6691	6706	6748	6824
6977	7093	7103	7111	7202
7237	7302	7314	7354	7359
7374	7379	7411	7414	7862
7878	7883	7884	7904	7926
7994	8090	8121	8125	8128
8138	8179	8186	8333	8362
8365	8371	8377	8378	8810
8812	8813	8814	8815	8817
8832	8928	9011	9089	9090
9103	9198	9235	9264	9300
9301	9308	9311	9411	9451
9478	9519	9540	9578	9664
9699	9766	9778	9821	9834
9867	9983	9984	9999	10025
10040	10196	10228	10271	10347
10376	10424			

Organic Compounds (continued)

1743	1744	1745	1819	1870
1896	1902	2379	2433	2519
2524	2543	2562	2661	2794
2921	3033	3364	3365	3482
3505	3709	3716	3723	3729
3778	3954	3986	4205	4216
5326	5420	6085	6681	6717
7089	7180	7194	7258	8384
8818	9277	9305	9463	9579
9580	10198	10277	10293	10355
10431				

Organometallic Compounds

2519	2543	3075	5357	7090
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Particles

43	735	916	1036	1326
1439	1460	1606	1902	2976
6307				

Pesticides

702	1056	2790	3505	3791
5975	6364	6926	7140	7242
8920	9160	9261	9274	9313
9332	9387	9558	10010	10130

Petroleum and Derivatives

80	89	107	567	702
797	1088	1172	1254	1443
1535	1565	1572	1601	1738
1789	1815	1896	1899	2337
2452	2518	2619	2651	2705
2740	3027	3028	3365	3505
3752	4270	4285	5383	5510
5923	5970	6357	6451	6929
6973	7296	7331	7351	7899
7954	7955	7970	8099	8151
8323	8375	9106	9442	9509
9513	9516	9568	9572	9810
9929	9946	10118	10386	10388
10391				

Photographic Film and Material

334	738	3394	7026	7176
9585	9701	9911		

Plastics

21	37	105	605	702
860	942	977	1065	1088
1097	1492	1514	1519	1764
1831	2518	2657	2689	2711

Organic Compounds

80	192	205	323	403
498	519	591	696	702
709	711	827	839	863
871	895	921	928	986
1042	1045	1071	1072	1084
1096	1103	1112	1116	1138
1139	1218	1238	1259	1288
1437	1455	1456	1462	1472
1478	1479	1491	1509	1510
1519	1529	1534	1539	1595
1617	1655	1670	1694	1728

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Plastics (continued)					Rocks (continued)				
2766	3781	3973	4209	6854	587	595	600	616	656
7218	7280	7315	7399	7931	669	695	724	728	739
7969	8183	8296	8402	9033	742	748	750	779	810
9107	9108	9230	9398	9785	819	820	841	909	922
9789	9899	9992	10022	10198	941	949	953	969	984
					999	1002	1007	1022	1025
Process Control					1047	1076	1080	1081	1082
1586	1590	2666	5969	9025	1083	1094	1107	1109	1121
9039	9386				1125	1128	1145	1169	1180
Protein					1182	1185	1201	1209	1210
134	709	1342	2129	5395	1213	1229	1293	1294	1297
5405	6000	6001	6068	6745	1340	1356	1374	1383	1385
7282	8001	8038	9440		1393	1416	1419	1431	1432
Quartz					1433	1445	1449	1454	1474
205	302	623	689	799	1480	1495	1518	1531	1537
888	927	1065	1495	1505	1538	1550	1558	1559	1571
1610	1655	2717	2728	3369	1585	1596	1615	1678	1693
3759	5353	5402	5865	6062	1711	1718	1727	1812	1817
7164	7165	7166	7167	7168	1835	1857	1885	1887	1899
7229	9214	9393	9525	10171	1902	1911	1930	1953	1960
Reactor Materials					1970	2146	2283	2340	2348
234	349	419	708	717	2354	2437	2447	2453	2603
726	735	974	1042	1171	2636	2641	2669	2684	2694
1192	1204	1357	1902	5765	2705	2720	2731	2735	2747
6713	6714	6751	7397	7430	2750	2763	2839	2902	2965
8069	8835	9531	9613	9614	2966	2991	3079	3081	3088
10195	10231	10349	10351		3089	3366	3367	3368	3371
Reagents					3387	3395	3414	3461	3462
300	1069	1072	1135	1136	3470	3481	3501	3560	3774
1265	1636	1862	2518	2717	3780	3790	3803	3961	3987
5335	6667	8075	8211	8423	4192	4195	4242	4262	4278
8901	9583	9660	9965	9977	4290	4305	4388	5322	5328
10177					5406	5428	5436	5439	5449
Refractories and Ceramics					5501	5713	5729	5731	5739
1540	2664	3488	6077	7073	5743	5747	5767	5852	5867
7121	8805	9034	9075	9662	5884	5934	5936	5939	5959
Rocks					5960	6079	6083	6204	6205
9	10	11	26	96	6215	6220	6298	6322	6324
98	120	199	204	212	6343	6352	6379	6404	6405
240	257	269	301	361	6442	6443	6445	6684	6701
362	363	365	367	455	6707	6724	6729	6734	6740
461	462	470	478	522	6741	6823	6956	6959	6961
523	524	525	526	538	6962	6963	6964	6966	6967
548	555	572	575	580	6970	6972	6999	7072	7101
					7108	7143	7148	7149	7152
					7181	7193	7196	7225	7252
					7256	7305	7309	7336	7341
					7367	7405	7408	7418	7865
					7867	7900	7928	7929	7938
					7944	7951	7961	7978	7987
					8049	8060	8071	8082	8119
					8123	8159	8197	8243	8299
					8317	8333	8361	8362	8364
					8365	8371	8372	8379	8815
					8816	8817	8837	8838	8853
					8854	8874	8909	8914	8928
					8931	8932	8982	8984	8986

ACTIVATION ANALYSIS—MATRIX ANALYZED

Rocks (continued)

8987	8989	9064	9086	9092
9117	9118	9129	9152	9174
9218	9231	9250	9257	9259
9271	9279	9302	9345	9360
9361	9417	9451	9452	9456
9459	9464	9473	9474	9515
9521	9530	9537	9542	9543
9551	9561	9582	9618	9626
9629	9636	9650	9651	9658
9659	9682	9683	9699	9721
9727	9728	9734	9741	9753
9762	9808	9830	9831	9840
9842	9844	9845	9846	9847
9848	9850	9851	9853	9858
9860	9862	9867	9868	9869
9872	9877	9922	9957	9966
9979	10026	10049	10056	10076
10079	10083	10092	10093	10094
10095	10096	10097	10098	10099
10100	10101	10137	10155	10158
10169	10179	10183	10197	10214
10228	10232	10253	10257	10260
10269	10282	10290	10291	10306
10318	10319	10320	10325	10326
10327	10332	10343	10347	10348
10354	10376	10381	10382	10402
10408	10423	10430		

Sediments, Marine

9	204	212	470	471
477	616	810	819	961
964	1002	1094	1128	1385
1727	1970	5771	5776	6204
6208	6375	6455	6924	6965
6969	6982	7921	7975	8074
8141	8196	8838	8914	8922
9330	9538	9767	9772	9812
9814	9818	9847	9863	9865
9943	9945	9962	10066	10090
10104	10142	10211	10237	10241
10281	10365	10390	10400	

Semiconductor Materials

149	216	457	473	509
544	583	702	707	785
838	888	892	894	1063
1118	1133	1135	1253	1286
1354	1438	1441	1823	1855
1862	1907	1930	2523	3350
3485	3514	3993	3995	4153
4321	5399	5437	5703	5928
5931	6053	6572	6708	6989
7019	7325	7401	7942	7945
7982	8154	8165	8303	8880

Semiconductor Materials (continued)

8885	9219	9339	9356	9441
9643				

Soils - Fertilizers

67	98	175	329	454
616	804	810	848	904
905	991	1011	1131	1195
1196	1361	1419	1515	1642
1782	1794	1874	1896	1899
1970	2552	2553	2590	2603
2705	3005	3091	3093	3345
5697	5990	6295	6926	6951
7083	7092	7122	7151	7404
7896	7909	7988	7989	8127
8254	8289	8348	8364	8365
8872	8902	8933	8970	9017
9333	9404	9426	9641	9707
9735	9736	9866	9902	9913
9914	9934	9949	10106	10114
10168	10212	10250	10344	10393
10394				

Space Applications, Lunar

253	545	658	996	1033
1052	1284	1721	1785	1912
2364	2684	3461	4198	4289
5261	5384	5440	6453	6971
7967	8014	8015	8235	8236
8237	8238	8239	8240	8241
8908	8926	9065	9073	9092
9099	9100	9284	9309	9310
9426	9472	9473	9474	9537
9541	9618	9734	9811	9818
9833	9843	9844	9845	9846
9858	9859	9867	9918	9958
10078	10092	10093	10094	10095
10096	10097	10098	10099	10100
10101	10214	10234	10269	10352
10366	10381	10423		

Stable Tracers

1048	1799	5966	5967	5992
6010	6058	6320	6461	6846
6848	6858	6859	6860	6925
6927	6974	6994	7188	7312
7334	7382	7425	7889	8013
8022	8023	8024	8034	8038
8183	8214	8242	8324	8844
8847	8882	8925	8958	8959
8960	9036	9037	9038	9151
9158	9160	9173	9202	9391
9448	9458	9475	9603	9790
9806	9941	9942	9953	9976
10010	10111	10112	10120	10125

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Stable Tracers (continued)

10185	10191	10240	10245	10287
10345				

Thin Films (continued)

3973	3992	6978	7301	8187
9763				

Steel and Cast Irons

87	88	118	119	223
304	305	351	353	356
357	417	428	552	581
620	628	687	690	717
718	810	893	903	915
940	990	1026	1085	1093
1097	1102	1124	1201	1204
1274	1363	1367	1394	1426
1434	1453	1468	1473	1522
1537	1541	1589	1590	1598
1642	1711	1717	1740	1760
1773	1786	1821	1837	1844
1875	1910	1911	1950	1951
1956	2418	2429	2507	2526
2537	2542	2586	2596	2611
2615	2649	2652	2678	2764
2795	2846	2983	3357	3466
3560	3746	3750	3981	3997
4413	5238	5378	5380	5389
5408	5450	5451	5452	5708
5766	6086	6398	6401	6569
6723	6728	6738	6830	6856
6857	6977	6980	7076	7080
7142	7154	7162	7170	7171
7182	7289	7291	7330	7344
7355	7361	7376	7419	7917
8059	8081	8315	8388	8825
8981	9035	9036	9093	9158
9171	9209	9215	9229	9260
9321	9335	9340	9380	9433
9447	9506	9528	9540	9545
9571	9575	9593	9718	9724
9738	9801	9921	9967	9970
10038	10062	10067	10129	10215
10245	10259	10292	10370	10374
10418	10421			

Water

54	55	56	125	126
206	207	250	290	300
333	686	735	843	853
868	937	959	981	1008
1021	1027	1062	1070	1109
1129	1135	1181	1190	1217
1237	1255	1266	1294	1351
1361	1435	1497	1528	1532
1725	1758	1814	1857	1874
1906	1973	1979	2157	2540
2543	2551	2656	2665	2666
2673	2689	2693	2717	2800
2852	2873	2930	3084	3483
3808	3962	3965	3969	4258
4272	4302	4412	5749	5858
5919	5920	6016	6926	6928
6939	7120	7218	7294	7334
7410	7422	7898	7921	7959
7977	7986	8145	8160	8214
8274	8327	8363	8380	8381
8847	8881	8902	8920	8978
9056	9057	9083	9153	9225
9276	9291	9328	9333	9363
9369	9370	9446	9520	9532
9558	9602	9611	9635	9642
9644	9655	9677	9709	9710
9713	9764	9790	9810	9823
9928	9933	9934	9944	9945
9947	9951	9953	9963	9980
10049	10065	10087	10104	10132
10141	10156	10185	10192	10194
10212	10221	10240	10266	10281
10286	10287	10302	10323	10344
10385	10387	10389	10392	10394
10398	10419			

Surface Analysis

29	423	1915	2562	2948
3070	3992	4000	5543	6066
6595	6596	7011	7036	7200
7343	7903	8039	8859	8866
8890	8973	9071	9114	9466
9491	9742	9756	10072	10223
10340				

Water, Sea

164	235	236	422	475
477	492	586	614	723
810	1125	1127	1266	1345
1385	1402	1457	1688	1727
1874	1906	1945	2157	2511
2673	2693	2790	2791	2792
2793	2848	2984	3960	3969
4219	4244	4255	4291	4381
5359	5387	5397	5777	5873
6228	6348	6375	6585	6823
6843	7294	7935	7952	8018
8074	8140	8838	8895	8922
9133	9255	9319	9428	9432
9469	9521	9615	9652	9717

Thin Films

508	654	1060	1158	1380
1496	1899	2658	3064	3126

ACTIVATION ANALYSIS—MATRIX ANALYZED

<p>Water, Sea (continued)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 12.5%;">9863</td> <td style="width: 12.5%;">9864</td> <td style="width: 12.5%;">9946</td> <td style="width: 12.5%;">9947</td> <td style="width: 12.5%;">10085</td> </tr> <tr> <td>10088</td> <td>10089</td> <td>10090</td> <td>10205</td> <td></td> </tr> </table> <p>Well Logging</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 12.5%;">695</td> <td style="width: 12.5%;">780</td> <td style="width: 12.5%;">786</td> <td style="width: 12.5%;">1061</td> <td style="width: 12.5%;">1430</td> </tr> <tr> <td>1554</td> <td>1555</td> <td>1559</td> <td>1680</td> <td>1683</td> </tr> <tr> <td>1684</td> <td>1685</td> <td>1686</td> <td>1772</td> <td>1822</td> </tr> <tr> <td>1843</td> <td>3462</td> <td>4252</td> <td>5552</td> <td>5554</td> </tr> <tr> <td>5555</td> <td>5577</td> <td>6221</td> <td>6971</td> <td>7144</td> </tr> <tr> <td>7379</td> <td>8007</td> <td>8079</td> <td>8126</td> <td>8275</td> 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<td>5729</td> <td>5863</td> <td>5865</td> </tr> <tr> <td>5919</td> <td>5921</td> <td>5922</td> <td>6024</td> <td>6199</td> </tr> <tr> <td>6215</td> <td>6410</td> <td>6412</td> <td>6569</td> <td>6694</td> </tr> <tr> <td>6702</td> <td>7012</td> <td>7201</td> <td>8065</td> <td>8152</td> </tr> <tr> <td>8162</td> <td>8276</td> <td>8300</td> <td>8917</td> <td>8961</td> </tr> <tr> <td>8990</td> <td>9098</td> <td>9202</td> <td>9268</td> <td>9288</td> </tr> <tr> <td>9667</td> <td>9687</td> <td>9816</td> <td>9819</td> <td>9884</td> </tr> <tr> <td>9912</td> <td>10041</td> <td>10105</td> <td>10182</td> <td>10200</td> </tr> <tr> <td>10215</td> <td>10223</td> <td>10427</td> <td></td> <td></td> </tr> </table> <p>Aluminum Alloys and Compounds</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 12.5%;">78</td> <td style="width: 12.5%;">83</td> <td style="width: 12.5%;">161</td> <td style="width: 12.5%;">234</td> <td style="width: 12.5%;">238</td> </tr> <tr> <td>384</td> <td>400</td> <td>451</td> <td>533</td> <td>806</td> </tr> <tr> <td>823</td> <td>853</td> <td>864</td> <td>899</td> <td>987</td> </tr> <tr> <td>989</td> <td>1093</td> <td>1099</td> <td>1140</td> <td>1167</td> </tr> <tr> <td>1190</td> <td>1220</td> <td>1274</td> <td>1725</td> <td>2865</td> </tr> <tr> <td>2927</td> <td>2956</td> <td>3487</td> <td>4211</td> <td>5353</td> </tr> <tr> <td>6201</td> <td>6690</td> <td>6991</td> <td>8849</td> <td>8983</td> </tr> </table>	4201	5941	6410	6412	7407	8088	9266	10041	10274		635	1188	1466	1725	1726	1816	1872	2511	3396	4276	5353	7292	8118	9123	10422	1136	1816	3369	4260	8109	8116	9746	10411			4	6	7	80	102	103	161	166	167	252	300	317	349	358	371	398	416	417	432	531	533	544	578	662	688	708	726	735	767	781	790	806	812	814	815	821	834	851	866	879	880	881	883	895	920	979	982	1042	1088	1097	1098	1099	1226	1245	1264	1273	1325	1338	1339	1398	1406	1420	1442	1469	1473	1526	1564	1591	1598	1618	1632	1700	1710	1723	1795	1804	1856	1901	1929	1960	1974	2358	2550	2559	2579	2597	2601	2628	2654	2683	2769	2950	3059	3382	3396	3721	3722	3724	3771	3791	3797	3992	4203	4298	5369	5409	5432	5729	5863	5865	5919	5921	5922	6024	6199	6215	6410	6412	6569	6694	6702	7012	7201	8065	8152	8162	8276	8300	8917	8961	8990	9098	9202	9268	9288	9667	9687	9816	9819	9884	9912	10041	10105	10182	10200	10215	10223	10427			78	83	161	234	238	384	400	451	533	806	823	853	864	899	987	989	1093	1099	1140	1167	1190	1220	1274	1725	2865	2927	2956	3487	4211	5353	6201	6690	6991	8849	8983
9863	9864	9946	9947	10085																																																																																																																																																																																																																																																																																																																																																																																																																												
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695	780	786	1061	1430																																																																																																																																																																																																																																																																																																																																																																																																																												
1554	1555	1559	1680	1683																																																																																																																																																																																																																																																																																																																																																																																																																												
1684	1685	1686	1772	1822																																																																																																																																																																																																																																																																																																																																																																																																																												
1843	3462	4252	5552	5554																																																																																																																																																																																																																																																																																																																																																																																																																												
5555	5577	6221	6971	7144																																																																																																																																																																																																																																																																																																																																																																																																																												
7379	8007	8079	8126	8275																																																																																																																																																																																																																																																																																																																																																																																																																												
8896	9002	9088	9216	9259																																																																																																																																																																																																																																																																																																																																																																																																																												
9308	9782	9852	9997	10149																																																																																																																																																																																																																																																																																																																																																																																																																												
10150	10151	10154	10365																																																																																																																																																																																																																																																																																																																																																																																																																													
467	869	1351	1568	2369																																																																																																																																																																																																																																																																																																																																																																																																																												
2726	3986	8156	8849																																																																																																																																																																																																																																																																																																																																																																																																																													
93	131	133	460	635																																																																																																																																																																																																																																																																																																																																																																																																																												
708	729	852	869	1123																																																																																																																																																																																																																																																																																																																																																																																																																												
1190	1197	1281	1292	1330																																																																																																																																																																																																																																																																																																																																																																																																																												
1424	1514	1560	1761	1801																																																																																																																																																																																																																																																																																																																																																																																																																												
1816	1900	2596	2598	2726																																																																																																																																																																																																																																																																																																																																																																																																																												
2734	2758	2804	3085	3393																																																																																																																																																																																																																																																																																																																																																																																																																												
4209	4386	5341	5410	5422																																																																																																																																																																																																																																																																																																																																																																																																																												
6044	7106	8020	8156	8842																																																																																																																																																																																																																																																																																																																																																																																																																												
9351	9352	9353	9486	9496																																																																																																																																																																																																																																																																																																																																																																																																																												
9684	9700	9960	10064	10164																																																																																																																																																																																																																																																																																																																																																																																																																												
45	46	49	58	69																																																																																																																																																																																																																																																																																																																																																																																																																												
74	105	108	109	291																																																																																																																																																																																																																																																																																																																																																																																																																												
314	391	472	578	596																																																																																																																																																																																																																																																																																																																																																																																																																												
623	637	640	789	814																																																																																																																																																																																																																																																																																																																																																																																																																												
849	850	983	1043	1081																																																																																																																																																																																																																																																																																																																																																																																																																												
1083	1104	1177	1189	1191																																																																																																																																																																																																																																																																																																																																																																																																																												
1226	1235	1263	1318	1347																																																																																																																																																																																																																																																																																																																																																																																																																												
1351	1361	1429	1442	1528																																																																																																																																																																																																																																																																																																																																																																																																																												
1637	1710	1730	1741	1816																																																																																																																																																																																																																																																																																																																																																																																																																												
1861	1871	1904	2505	2549																																																																																																																																																																																																																																																																																																																																																																																																																												
2777	3073	3727	3976	5593																																																																																																																																																																																																																																																																																																																																																																																																																												
6369	6689	7097	7214	7326																																																																																																																																																																																																																																																																																																																																																																																																																												
9001	9376																																																																																																																																																																																																																																																																																																																																																																																																																															
22	300	635	899	1190																																																																																																																																																																																																																																																																																																																																																																																																																												
1231	1274	1351	1398	1483																																																																																																																																																																																																																																																																																																																																																																																																																												
1801	2798	3357	3488	3981																																																																																																																																																																																																																																																																																																																																																																																																																												
4201	5941	6410	6412	7407																																																																																																																																																																																																																																																																																																																																																																																																																												
8088	9266	10041	10274																																																																																																																																																																																																																																																																																																																																																																																																																													
635	1188	1466	1725	1726																																																																																																																																																																																																																																																																																																																																																																																																																												
1816	1872	2511	3396	4276																																																																																																																																																																																																																																																																																																																																																																																																																												
5353	7292	8118	9123	10422																																																																																																																																																																																																																																																																																																																																																																																																																												
1136	1816	3369	4260	8109																																																																																																																																																																																																																																																																																																																																																																																																																												
8116	9746	10411																																																																																																																																																																																																																																																																																																																																																																																																																														
4	6	7	80	102																																																																																																																																																																																																																																																																																																																																																																																																																												
103	161	166	167	252																																																																																																																																																																																																																																																																																																																																																																																																																												
300	317	349	358	371																																																																																																																																																																																																																																																																																																																																																																																																																												
398	416	417	432	531																																																																																																																																																																																																																																																																																																																																																																																																																												
533	544	578	662	688																																																																																																																																																																																																																																																																																																																																																																																																																												
708	726	735	767	781																																																																																																																																																																																																																																																																																																																																																																																																																												
790	806	812	814	815																																																																																																																																																																																																																																																																																																																																																																																																																												
821	834	851	866	879																																																																																																																																																																																																																																																																																																																																																																																																																												
880	881	883	895	920																																																																																																																																																																																																																																																																																																																																																																																																																												
979	982	1042	1088	1097																																																																																																																																																																																																																																																																																																																																																																																																																												
1098	1099	1226	1245	1264																																																																																																																																																																																																																																																																																																																																																																																																																												
1273	1325	1338	1339	1398																																																																																																																																																																																																																																																																																																																																																																																																																												
1406	1420	1442	1469	1473																																																																																																																																																																																																																																																																																																																																																																																																																												
1526	1564	1591	1598	1618																																																																																																																																																																																																																																																																																																																																																																																																																												
1632	1700	1710	1723	1795																																																																																																																																																																																																																																																																																																																																																																																																																												
1804	1856	1901	1929	1960																																																																																																																																																																																																																																																																																																																																																																																																																												
1974	2358	2550	2559	2579																																																																																																																																																																																																																																																																																																																																																																																																																												
2597	2601	2628	2654	2683																																																																																																																																																																																																																																																																																																																																																																																																																												
2769	2950	3059	3382	3396																																																																																																																																																																																																																																																																																																																																																																																																																												
3721	3722	3724	3771	3791																																																																																																																																																																																																																																																																																																																																																																																																																												
3797	3992	4203	4298	5369																																																																																																																																																																																																																																																																																																																																																																																																																												
5409	5432	5729	5863	5865																																																																																																																																																																																																																																																																																																																																																																																																																												
5919	5921	5922	6024	6199																																																																																																																																																																																																																																																																																																																																																																																																																												
6215	6410	6412	6569	6694																																																																																																																																																																																																																																																																																																																																																																																																																												
6702	7012	7201	8065	8152																																																																																																																																																																																																																																																																																																																																																																																																																												
8162	8276	8300	8917	8961																																																																																																																																																																																																																																																																																																																																																																																																																												
8990	9098	9202	9268	9288																																																																																																																																																																																																																																																																																																																																																																																																																												
9667	9687	9816	9819	9884																																																																																																																																																																																																																																																																																																																																																																																																																												
9912	10041	10105	10182	10200																																																																																																																																																																																																																																																																																																																																																																																																																												
10215	10223	10427																																																																																																																																																																																																																																																																																																																																																																																																																														
78	83	161	234	238																																																																																																																																																																																																																																																																																																																																																																																																																												
384	400	451	533	806																																																																																																																																																																																																																																																																																																																																																																																																																												
823	853	864	899	987																																																																																																																																																																																																																																																																																																																																																																																																																												
989	1093	1099	1140	1167																																																																																																																																																																																																																																																																																																																																																																																																																												
1190	1220	1274	1725	2865																																																																																																																																																																																																																																																																																																																																																																																																																												
2927	2956	3487	4211	5353																																																																																																																																																																																																																																																																																																																																																																																																																												
6201	6690	6991	8849	8983																																																																																																																																																																																																																																																																																																																																																																																																																												

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Aluminum Alloys and Compounds (continued)

9409	9656	9722	9770	9771
9816	9819	9903	9915	9971
9989	9990	9995	10139	10321
10379				

Titanium and its Alloys and Compounds

51	75	81	291	319
1067	3357	3783	3799	3981
5431	5781	6065	6354	6383
6750	7132	7254	7360	7930
8155	8836	8913	9696	9895
9996	10000	10004	10262	10316
10317				

Zirconium and its Alloys and Compounds

24	176	231	252	287
291	319	325	375	494
641	726	760	762	814
821	851	879	895	899
967	1003	1065	1067	1097
1190	1236	1309	1377	1410
1442	1471	1537	1573	1574
1578	1612	1642	1646	1699
1709	1765	1931	2381	2550
2979	3721	3996	4000	5177
5515	5517	5938	6213	6335
6441	6590	6700	7012	7241
7910	8039	8833	9060	9203
9685	9688	9696	9737	9748
9794	10037	10062	10110	10172
10271				

Hafnium and its Alloys and Compounds

176	232	507	1375	1481
1537	1765	2381	5938	6590
8173				

Niobium and its Alloys and Compounds

51	105	265	266	319
641	896	910	1102	1165
1487	1709	1759	1829	1840
1966	1983	2502	3059	3346
5781	5782	5786	6569	6833
7201	8108	9514	9718	9839
10262	10315	10317		

Tantalum and its Alloys and Compounds

51	912	1045	1102	1165
1232	1442	2502	6833	7201
9058	10315			

Chromium, Vanadium and Manganese and their Alloys and Compounds

130	585	1289	1333	1501
1570	2473	5385	6065	6356
6591	6991	7009	7135	7230
7283	7874	8206	8212	8387
9010				

Molybdenum and its Alloys and Compounds

205	331	1760	1803	2381
3990	5321	5938	6071	6200
6590	6705	6733	6829	7134
7145	7201	8091	8155	8206
8310	8884	8992	9181	9341
9574	9673	9982	10052	10131
10317				

Tungsten and its Alloys and Compounds

116	205	242	955	980
1045	1227	1283	1340	1592
1597	1842	2381	3775	3810
3990	4231	5444	5732	5740
5938	6071	6590	6826	7145
7201	7406	8070	8310	9112
9591	9982	9988	10126	

Iron and its Alloys and Compounds (excluding Steels and Cast Irons)

4	5	8	118	119
130	140	166	167	179
271	319	401	443	452
490	502	516	537	544
578	662	688	744	767
851	879	896	906	1045
1067	1125	1150	1219	1226
1267	1298	1313	1339	1344
1375	1442	1621	1770	1875
1910	1938	1965	2358	2644
2658	2744	3785	3975	4189
4322	5336	5349	5430	5728
5954	6412	6568	6591	6693
6825	7009	7018	7090	7150
7230	7295	8065	8206	8990
9067	9405			

Cobalt and its Alloys and Compounds

130	545	823	1156	1167
1828	7201			

Nickel and its Alloys and Compounds

28	544	635	662	852
892	1009	1124	1167	1262
1442	1613	1827	2658	3976

ACTIVATION ANALYSIS—MATRIX ANALYZED

Nickel and its Alloys and Compounds (continued)

5712	6412	6568	6591	6693
6743	7009	7081	7172	7230
7320	8206	8810	9076	9466

Copper and its Alloys and Compounds

130	153	384	589	754
851	956	995	1004	1067
1190	1299	1375	1378	1477
1728	1763	1896	2537	2550
2887	3418	4277	4308	5403
5415	6412	6996	7387	8311
9013	9380	9466	9528	9665
9750	9832	9895	10004	10215
10255				

Zinc and its Alloys and Compounds

31	32	44	117	141
180	202	229	272	360
584	608	635	798	832
957	1000	1018	1398	1633
1689	1763	2358	2525	2683
2723	2724	2725	2796	3084
3994	4303	5447	5922	5955
6323	6394	6395	6444	7226
8064	9109	9836	10322	10328
10377				

Gallium, Indium and Thallium and their Alloys and Compounds

141	229	622	825	867
894	957	1005	1045	1068
1159	1190	1648	1675	2358
2721	3730	3731	4217	4321
5500	5703	5753	5928	6024
6202	6203	6294	6337	6355
6369	6385	6676	6678	6689
6825	6990	7116	7212	7225
7281	7401	7982	8068	8110
8115	8154	8163	8193	8202
8308	8415	8880	9339	9461
9981	10252			

Cadmium and its Alloys and Compounds

30	31	141	832	1331
1525	1936	2625	6693	7112
7124	7298			

Silver, Gold and Mercury and their Alloys and Compounds

105	130	211	344	544
589	662	774	997	1095
1106	1111	1132	1599	1641

Silver, Gold and Mercury and their Alloys and Compounds (continued)

1787	5704	6980	7011	7997
8204	8424	8894	10186	10415

Platinum and its Alloys and Compounds

2	135	205	221	262
364	451	601	727	774
792	907	1146	1147	1183
1184	1344	2644	3473	3810
5940	6677	7011	7394	7941
8244	8831	8986	9726	

Rhenium, Ruthenium, Osmium, Rhodium, Iridium and Palladium and their Alloys and Compounds

135	221	344	774	1119
1260	1425	1539	2515	2644
2671	3530	5311	5363	5364
5868	6351	6677	6735	7118
7119	8111	8112	8113	8382
8831	9455			

Carbon, Graphite, Diamond

115	139	163	241	291
468	607	752	819	848
945	946	992	994	1090
1161	1201	1269	1319	1408
1478	1618	1653	1725	1760
1787	1818	1839	1860	2306
2717	2772	2865	3474	3995
5863	5919	6071	6720	7004
7082	8200	8319	8819	8855
9008	9222	9223	9224	9248
9249	9367	9412	9744	9769
10294				

Silicon and its Alloys and Compounds (excluding Quartz)

12	105	149	181	193
244	245	246	255	279
319	322	371	379	390
473	491	509	544	602
606	623	662	803	805
818	831	853	864	869
870	881	887	888	892
894	913	922	1013	1091
1118	1121	1142	1151	1153
1166	1194	1207	1208	1223
1272	1304	1438	1441	1546
1547	1561	1587	1588	1616
1742	1760	1820	1831	1855
1899	1907	1930	1974	2358
2376	2386	2523	2578	2712
2717	2923	3361	3383	3384

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Silicon and its Alloys and Compounds (excluding Quartz) (continued)

3514	4224	4347	5353	5399
5429	5619	5787	5793	5931
6053	6072	6226	6572	6580
6581	6690	6708	6736	6989
7019	7201	7248	7307	7870
7982	8041	8080	8165	8187
8276	8330	8392	8412	9048
9050	9113	9182	9219	9256
9272	9280	9307	9337	9377
9407	9454	9625	9643	9654
9706	9708	9711	9742	9745
9768	9770	9771	10024	10041
10055	10063	10117	10182	10213
10252	10329			

Germanium and its Alloys and Compounds

248	370	465	474	501
544	662	689	818	892
1045	1156	1243	1244	1291
1442	1548	1679	1862	1907
2154	2430	2497	2578	2712
2717	3485	3732	3993	4321
5330	5752	5769	6053	6072
6589	6708	6834	7133	7945
7982	8158	8168	9007	9063
9116	9339	9645	9799	

Tin and its Alloys and Compounds

141	319	1018	1976	2358
4298	6369	6689	6727	6993
7995	9120	9380	9436	9657
9968	10010			

Lead and its Alloys and Compounds

105	130	141	249	384
424	608	623	692	775
798	886	950	1064	1066
1074	1500	1533	1598	1763
1830	1841	1856	1901	1930
2154	2643	2654	2715	2717
3396	3788	3804	5344	5345
5381	5398	6369	6689	6696
7017	8155	9130	9836	10004
10034	10077	10131		

Phosphorus and Phosphates

174	902	919	936	954
1344	2680	2721	4191	4293
5438	9168	9784	9917	9931

Arsenic and Antimony and their Alloys and Compounds

270	544	662	852	985
1441	1570	1754	2640	2713
2721	2878	4321	5787	5928
6385	6981	7401	7874	7880
8193	8308			

Bismuth and its Alloys and Compounds

215	544	608	662	777
798	894	1320	1441	1542
1672	1760	1763	1969	2610
2612	2613	2812	3396	6369
6689	7017	7923		

Sulfur

148	387	431	607	753
1654	1862	6992	8962	9994

Selenium and Tellurium and their Alloys and Compounds

330	544	662	674	858
894	1215	1240	1246	1247
1300	1373	1520	1603	1628
1725	1760	1848	2775	2813
4254	4299	4300	5730	6369
6446	6689	7227	7307	7919
7920	7934	8067	8114	8393
9068	9159	10375		

Rare Earths and their Alloys and Compounds (including Sc and Y)

115	188	225	227	228
258	267	343	395	396
544	604	662	948	958
960	1008	1011	1015	1016
1021	1115	1195	1196	1199
1324	1329	1344	1403	1413
1648	1722	1802	1803	1882
1957	1985	2480	2496	2621
2789	2920	2932	3100	3397
3770	3810	4226	4250	4322
4325	5308	5347	5778	5964
6454	6828	7091	7236	7423
7964	8005	8063	8122	8294
8309	9102	9111	9362	9364
9673	10041	10044	10108	10109
10175	10284	10295		

Halogens

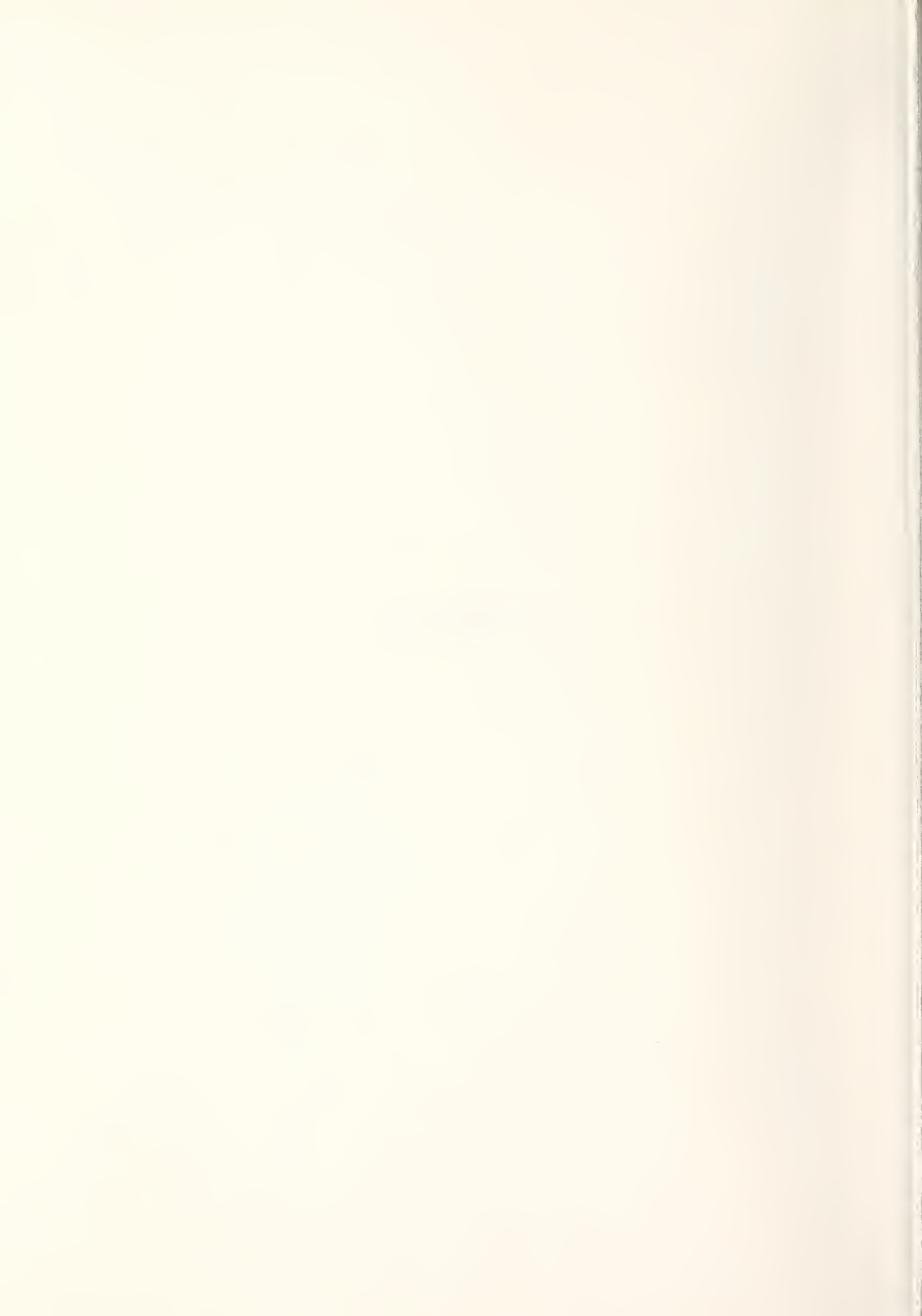
243	923	1725	2982	
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ACTIVATION ANALYSIS – MATRIX ANALYZED

Noble Gases						2882	3074	3661	3811	3841
1004	1539	1543	4301	9124		3964	4208	4249	4391	5368
						5728	5735	5765	5863	6056
						6057	7096	7397	7939	8086
Uranium, Thorium and Plutonium and their Alloys and Compounds						8386	8416	8801	8863	8991
52	105	151	233	252		9110	9334	10037	10140	10172
327	346	737	771	813		10195	10334	10358	10378	
822	824	952	973	998						
1019	1038	1059	1079	1109	Fission Products					
1256	1318	1357	1391	1428		326	634	1543	4347	6057
1442	1607	1614	1653	1681		6836	8386	8801	8808	9809
1682	1725	1730	1803	1832						
1833	1857	1865	1921	2441	Technetium					
2480	2496	2714	2741	2752		10403				
2753	2754	2836	2844	2870						



APPENDIX III



APPENDIX III

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Reactor – Thermal Neutron (n,γ)

Reactor – Thermal Neutron (n,γ) (continued)

2	4	5	6	7	507	508	509	511	512
9	10	11	12	13	513	514	516	517	520
14	15	21	22	24	521	522	523	524	525
26	28	30	31	32	526	531	533	535	537
33	34	35	39	40	538	539	541	542	543
41	42	43	44	47	544	545	548	550	551
48	50	51	54	55	552	553	560	561	562
56	57	59	61	62	564	565	566	570	571
63	64	65	66	67	572	573	574	575	581
68	69	73	74	78	583	584	585	586	587
79	80	81	83	84	588	590	592	593	595
85	86	88	89	90	598	600	601	602	604
93	96	97	100	101	605	606	607	608	609
102	103	104	107	115	610	614	619	620	622
116	117	120	121	122	625	630	634	636	637
123	124	126	133	134	638	640	641	648	651
136	137	138	139	140	652	657	659	662	663
141	142	143	144	145	665	667	670	673	674
146	147	148	149	151	675	676	677	681	683
154	158	161	162	163	686	687	688	689	690
164	165	166	167	171	692	698	699	701	702
172	174	176	178	179	705	706	707	708	709
180	183	186	187	193	710	711	713	714	716
194	197	198	200	208	717	718	721	723	726
209	210	211	212	214	727	728	729	730	735
215	216	217	221	222	736	738	739	740	741
223	225	226	231	232	742	752	753	754	755
234	235	236	237	238	757	758	760	763	765
239	240	242	243	244	767	768	772	773	774
245	246	248	249	250	775	776	777	778	779
254	255	260	261	262	781	788	789	790	792
263	264	265	266	267	797	798	799	802	803
268	269	270	279	284	804	805	806	808	810
286	287	288	289	290	812	813	815	817	819
291	300	302	304	305	820	821	822	823	824
310	317	319	321	322	825	828	829	830	831
323	325	326	328	329	832	834	838	841	842
330	331	332	334	347	843	844	845	846	848
349	351	352	353	354	849	850	851	852	853
356	357	358	360	361	854	856	858	864	866
362	363	364	366	367	867	868	869	871	877
370	371	375	376	378	879	880	881	882	883
379	386	387	390	393	887	888	896	902	903
395	396	397	398	400	906	907	909	910	911
405	407	408	409	410	914	915	916	918	919
411	412	414	416	418	920	922	923	927	928
419	421	422	424	428	929	932	933	934	935
429	431	432	433	434	937	938	939	940	941
436	439	442	444	448	942	943	944	945	946
449	450	451	452	454	948	950	951	952	953
459	460	461	462	465	955	956	957	959	962
467	468	469	470	471	963	966	968	970	971
472	473	474	475	476	973	974	977	979	980
477	478	481	482	483	982	984	985	986	987
484	485	486	487	488	988	989	990	991	992
489	490	492	493	494	993	994	995	997	998
501	502	504	505	506	999	1000	1001	1002	1003

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Reactor – Thermal Neutron (n,γ) (continued)

1004	1005	1007	1008	1009
1010	1011	1012	1015	1016
1018	1019	1020	1021	1022
1024	1025	1027	1028	1030
1031	1032	1034	1035	1036
1038	1041	1042	1043	1045
1047	1056	1057	1059	1060
1063	1064	1066	1068	1069
1073	1074	1075	1076	1077
1078	1080	1085	1086	1087
1088	1089	1090	1092	1094
1095	1096	1097	1098	1099
1100	1102	1105	1107	1108
1109	1110	1112	1114	1117
1118	1119	1121	1122	1123
1124	1125	1127	1129	1131
1132	1133	1134	1135	1137
1138	1139	1140	1141	1143
1145	1146	1147	1150	1153
1155	1156	1159	1162	1165
1166	1167	1169	1170	1171
1173	1174	1176	1177	1180
1181	1182	1183	1184	1185
1187	1188	1189	1190	1191
1192	1193	1195	1196	1197
1199	1200	1201	1203	1204
1205	1206	1207	1208	1209
1210	1211	1212	1214	1215
1216	1218	1220	1221	1222
1223	1224	1225	1226	1227
1228	1230	1231	1233	1234
1235	1236	1237	1239	1240
1241	1243	1244	1245	1246
1247	1250	1251	1254	1257
1260	1261	1262	1263	1264
1265	1266	1269	1271	1272
1273	1274	1275	1277	1278
1279	1281	1283	1285	1286
1287	1288	1289	1290	1291
1292	1293	1299	1300	1302
1306	1307	1310	1311	1313
1314	1317	1319	1320	1323
1324	1325	1326	1331	1332
1333	1340	1347	1349	1351
1353	1356	1357	1361	1373
1376	1378	1380	1381	1382
1383	1384	1385	1386	1389
1391	1392	1395	1396	1398
1400	1401	1402	1404	1406
1409	1410	1411	1412	1416
1419	1420	1421	1425	1426
1428	1429	1431	1432	1433
1434	1436	1438	1439	1441
1443	1446	1449	1452	1454
1455	1456	1457	1458	1460
1463	1466	1468	1469	1470
1471	1472	1473	1474	1477

Reactor – Thermal Neutron (n,γ) (continued)

1478	1480	1484	1487	1491
1492	1493	1494	1495	1496
1497	1500	1502	1504	1505
1510	1512	1515	1517	1518
1519	1520	1521	1525	1526
1527	1529	1531	1533	1537
1538	1539	1540	1541	1542
1543	1548	1549	1550	1551
1552	1553	1554	1555	1556
1558	1563	1564	1565	1566
1568	1569	1570	1571	1572
1573	1574	1576	1577	1578
1581	1583	1584	1585	1587
1588	1592	1595	1596	1597
1601	1603	1606	1607	1610
1612	1613	1614	1615	1616
1617	1618	1621	1628	1631
1632	1633	1634	1635	1636
1641	1644	1645	1647	1648
1649	1652	1653	1654	1655
1658	1659	1660	1661	1664
1665	1671	1672	1673	1676
1677	1678	1679	1681	1682
1689	1692	1693	1694	1697
1699	1702	1703	1705	1706
1707	1708	1709	1710	1711
1712	1715	1717	1719	1722
1723	1725	1726	1727	1729
1731	1732	1734	1736	1737
1741	1743	1744	1745	1746
1748	1749	1750	1751	1752
1755	1759	1760	1761	1762
1763	1766	1767	1769	1770
1774	1780	1781	1782	1783
1785	1786	1787	1788	1789
1790	1791	1792	1793	1794
1795	1797	1799	1800	1803
1805	1806	1812	1813	1817
1818	1819	1820	1821	1824
1825	1827	1828	1829	1830
1832	1833	1834	1835	1839
1840	1841	1842	1844	1845
1848	1855	1856	1857	1858
1862	1863	1872	1874	1878
1881	1882	1886	1888	1890
1891	1892	1893	1894	1895
1897	1901	1902	1904	1906
1907	1909	1913	1914	1918
1920	1921	1924	1925	1926
1929	1930	1931	1936	1937
1938	1945	1948	1952	1953
1957	1958	1959	1960	1962
1964	1965	1966	1969	1970
1971	1973	1974	1975	1976
1977	1980	1982	1983	1984
1985	2052	2121	2122	2123
2141	2144	2145	2146	2154

ACTIVATION ANALYSIS—TECHNIQUE USED

Reactor – Thermal Neutron (n,γ) (continued)

2157	2251	2283	2296	2306
2308	2327	2333	2337	2340
2347	2350	2358	2365	2369
2376	2386	2403	2422	2426
2430	2431	2434	2437	2440
2441	2444	2445	2447	2455
2464	2473	2474	2480	2481
2493	2495	2496	2497	2499
2502	2503	2507	2508	2509
2511	2515	2517	2523	2525
2533	2534	2535	2537	2539
2540	2546	2548	2550	2551
2552	2553	2558	2559	2563
2565	2570	2571	2572	2573
2578	2579	2584	2590	2595
2597	2601	2605	2607	2610
2611	2612	2613	2614	2619
2621	2633	2636	2638	2639
2640	2641	2643	2644	2645
2651	2654	2657	2658	2659
2660	2663	2664	2669	2671
2673	2680	2683	2685	2687
2688	2689	2690	2694	2695
2696	2699	2701	2707	2711
2713	2714	2715	2717	2718
2721	2724	2725	2727	2728
2730	2731	2732	2733	2735
2737	2739	2740	2741	2744
2750	2752	2753	2754	2756
2759	2762	2766	2769	2772
2773	2775	2776	2782	2786
2789	2790	2791	2792	2793
2794	2795	2797	2800	2801
2804	2805	2806	2819	2821
2836	2838	2839	2840	2844
2845	2846	2848	2849	2852
2853	2865	2870	2871	2873
2876	2878	2881	2882	2887
2888	2889	2892	2902	2904
2920	2921	2922	2923	2926
2927	2929	2930	2931	2932
2936	2938	2942	2943	2945
2950	2957	2958	2963	2964
2970	2973	2976	2977	2978
2979	2981	2982	2984	2989
2991	2999	3005	3027	3059
3060	3061	3062	3065	3079
3081	3084	3088	3091	3092
3093	3098	3105	3126	3328
3341	3342	3344	3345	3350
3352	3358	3360	3362	3363
3365	3366	3367	3368	3369
3370	3371	3372	3382	3383
3384	3386	3387	3388	3391
3394	3395	3396	3397	3411
3414	3418	3464	3466	3467
3470	3473	3475	3476	3481

Reactor – Thermal Neutron (n,γ) (continued)

3482	3483	3485	3486	3488
3489	3494	3498	3504	3514
3530	3661	3669	3708	3709
3710	3713	3714	3716	3723
3724	3725	3726	3727	3730
3731	3732	3736	3738	3739
3740	3745	3755	3757	3759
3760	3766	3769	3770	3774
3775	3778	3780	3785	3788
3789	3791	3797	3804	3808
3810	3811	3841	3949	3954
3955	3956	3957	3958	3959
3960	3961	3964	3979	3982
3988	3989	3990	3991	3993
3994	3998	4153	4190	4191
4192	4194	4195	4196	4201
4202	4203	4207	4208	4216
4219	4224	4230	4231	4232
4240	4242	4244	4249	4250
4253	4254	4255	4258	4262
4263	4267	4268	4269	4270
4272	4274	4278	4281	4283
4284	4285	4286	4290	4291
4293	4298	4299	4301	4302
4303	4305	4306	4307	4308
4309	4310	4311	4314	4315
4319	4321	4322	4325	4328
4329	4347	4374	4381	4388
4406	5262	5295	5307	5320
5323	5326	5327	5328	5335
5336	5338	5341	5343	5344
5345	5347	5349	5350	5358
5359	5363	5364	5365	5366
5368	5369	5370	5378	5381
5382	5385	5386	5390	5393
5394	5395	5397	5398	5399
5401	5402	5405	5406	5407
5408	5410	5415	5422	5428
5436	5438	5439	5444	5447
5448	5449	5472	5499	5500
5502	5510	5515	5517	5547
5551	5571	5577	5579	5591
5592	5619	5697	5699	5701
5703	5704	5705	5706	5707
5712	5713	5716	5717	5718
5719	5721	5725	5726	5727
5728	5729	5730	5731	5732
5735	5742	5746	5749	5750
5751	5753	5755	5756	5759
5760	5761	5765	5766	5770
5771	5775	5777	5779	5784
5785	5786	5787	5788	5790
5792	5793	5808	5851	5858
5860	5862	5864	5868	5872
5873	5874	5919	5922	5924
5925	5926	5927	5928	5929
5931	5932	5933	5934	5935

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Reactor – Thermal Neutron (n, γ) (continued)

5936	5939	5940	5941	5942
5944	5948	5949	5951	5953
5955	5958	5959	5960	5961
5962	5963	5964	5965	5967
5969	5970	5972	5975	5976
5977	5981	5983	5984	5989
5991	5992	5994	5995	5996
5999	6000	6001	6002	6003
6005	6006	6007	6008	6010
6011	6012	6013	6015	6016
6017	6023	6024	6031	6039
6040	6043	6044	6047	6048
6050	6052	6054	6055	6058
6061	6062	6063	6064	6067
6068	6069	6071	6073	6074
6077	6079	6080	6081	6083
6085	6086	6199	6202	6203
6204	6205	6206	6207	6208
6209	6211	6213	6214	6215
6217	6220	6223	6225	6226
6227	6228	6244	6294	6295
6297	6298	6303	6304	6307
6308	6309	6312	6313	6314
6315	6322	6323	6324	6328
6331	6335	6337	6343	6344
6346	6348	6351	6353	6354
6355	6356	6359	6367	6369
6375	6376	6378	6379	6380
6382	6383	6385	6386	6387
6388	6389	6390	6392	6393
6394	6395	6401	6405	6406
6407	6409	6410	6412	6438
6439	6441	6442	6443	6444
6445	6446	6451	6453	6454
6455	6459	6568	6569	6570
6572	6667	6668	6670	6671
6673	6674	6679	6685	6686
6687	6688	6689	6690	6691
6692	6696	6697	6699	6700
6701	6702	6707	6710	6712
6715	6716	6719	6720	6721
6724	6727	6729	6733	6734
6735	6738	6739	6740	6741
6745	6747	6748	6751	6754
6755	6822	6823	6824	6825
6826	6828	6829	6831	6832
6836	6839	6842	6846	6848
6849	6851	6852	6853	6857
6858	6859	6860	6921	6922
6923	6924	6925	6927	6928
6929	6930	6931	6932	6933
6934	6935	6936	6937	6938
6939	6940	6941	6942	6943
6944	6946	6947	6948	6950
6951	6954	6955	6956	6957
6958	6959	6960	6961	6962
6963	6964	6965	6966	6967

Reactor – Thermal Neutron (n, γ) (continued)

6968	6969	6970	6972	6974
6976	6980	6981	6982	6983
6985	6989	6990	6991	6992
6993	6994	6995	6996	6999
7002	7004	7035	7072	7073
7077	7080	7081	7082	7083
7084	7086	7087	7091	7092
7093	7095	7096	7099	7107
7108	7111	7112	7113	7118
7119	7122	7123	7125	7129
7131	7132	7133	7134	7135
7137	7138	7143	7145	7146
7147	7148	7149	7152	7154
7160	7164	7165	7166	7167
7168	7169	7170	7171	7172
7174	7175	7181	7182	7186
7193	7194	7195	7196	7206
7209	7210	7211	7212	7215
7216	7218	7220	7222	7223
7225	7226	7227	7229	7234
7235	7236	7237	7240	7241
7242	7243	7246	7252	7254
7256	7257	7260	7280	7281
7282	7283	7294	7295	7298
7299	7300	7303	7304	7305
7306	7308	7309	7310	7311
7312	7326	7328	7329	7331
7332	7333	7336	7341	7353
7355	7359	7360	7361	7362
7364	7365	7369	7370	7371
7373	7374	7375	7376	7377
7380	7382	7388	7391	7393
7394	7396	7397	7399	7401
7405	7407	7408	7410	7416
7420	7422	7423	7425	7427
7431	7865	7867	7868	7869
7870	7873	7877	7879	7880
7883	7884	7885	7887	7888
7889	7893	7896	7898	7899
7900	7901	7904	7906	7908
7910	7911	7913	7914	7919
7921	7927	7930	7931	7932
7933	7934	7935	7937	7938
7939	7940	7941	7943	7944
7945	7947	7948	7951	7957
7959	7961	7976	7978	7979
7981	7983	7986	7988	7989
7990	7991	7992	7993	7996
7997	7998	7999	8001	8005
8006	8007	8008	8010	8011
8017	8019	8020	8021	8022
8023	8024	8038	8041	8047
8051	8052	8054	8055	8060
8062	8063	8064	8067	8068
8069	8070	8071	8074	8075
8080	8081	8082	8083	8085
8086	8088	8091	8099	8100

ACTIVATION ANALYSIS—TECHNIQUE USED

Reactor – Thermal Neutron (n,γ) (continued)

8108	8109	8110	8111	8112
8113	8114	8115	8116	8118
8120	8121	8122	8123	8127
8128	8130	8135	8139	8140
8141	8143	8144	8145	8146
8147	8148	8151	8152	8154
8155	8156	8158	8159	8160
8163	8164	8165	8168	8174
8180	8181	8183	8187	8190
8191	8193	8196	8197	8198
8200	8202	8203	8204	8209
8211	8212	8214	8237	8239
8240	8242	8244	8245	8246
8247	8252	8253	8254	8274
8276	8292	8293	8294	8295
8296	8298	8299	8300	8302
8303	8308	8309	8311	8313
8317	8321	8323	8324	8326
8327	8328	8331	8332	8333
8338	8339	8340	8341	8342
8343	8344	8345	8348	8351
8353	8354	8355	8356	8357
8358	8359	8361	8363	8364
8365	8371	8372	8373	8374
8375	8377	8378	8379	8380
8381	8382	8384	8386	8388
8390	8392	8393	8407	8413
8421	8423	8424	8802	8807
8808	8814	8815	8816	8818
8820	8822	8823	8824	8826
8827	8828	8829	8831	8832
8833	8834	8836	8838	8843
8844	8847	8848	8850	8853
8854	8869	8872	8874	8878
8880	8881	8882	8884	8885
8889	8900	8901	8903	8911
8913	8914	8918	8919	8923
8927	8929	8932	8958	8959
8962	8964	8965	8966	8967
8968	8970	8978	8980	8982
8983	8984	8985	8986	8987
8988	8989	8990	8991	8992
8993	8994	8995	8998	9000
9003	9004	9005	9007	9008
9011	9012	9017	9018	9019
9026	9027	9030	9031	9032
9036	9039	9040	9048	9051
9052	9056	9057	9060	9063
9064	9066	9068	9076	9079
9080	9081	9083	9084	9085
9086	9087	9092	9095	9098
9099	9100	9102	9105	9106
9107	9108	9109	9110	9111
9112	9116	9117	9118	9120
9123	9128	9129	9130	9131
9133	9134	9151	9152	9153
9154	9157	9158	9159	9160

Reactor – Thermal Neutron (n,γ) (continued)

9161	9164	9165	9166	9168
9169	9170	9171	9173	9174
9179	9181	9196	9201	9202
9203	9205	9206	9209	9214
9215	9218	9219	9226	9227
9230	9237	9245	9246	9247
9250	9253	9255	9256	9257
9258	9261	9262	9263	9265
9266	9268	9269	9270	9271
9274	9276	9279	9280	9285
9286	9287	9293	9302	9304
9313	9316	9317	9318	9319
9321	9322	9323	9325	9327
9328	9332	9333	9334	9338
9341	9342	9343	9345	9351
9352	9353	9354	9355	9356
9357	9360	9361	9362	9366
9367	9369	9370	9371	9373
9374	9379	9393	9395	9405
9407	9412	9414	9415	9417
9418	9419	9425	9427	9432
9435	9437	9440	9442	9443
9446	9449	9455	9456	9457
9458	9459	9460	9461	9464
9469	9473	9474	9475	9476
9477	9478	9492	9494	9502
9503	9508	9510	9512	9513
9514	9515	9516	9517	9525
9530	9532	9534	9543	9547
9548	9552	9554	9559	9562
9568	9569	9572	9573	9576
9582	9583	9585	9589	9596
9598	9609	9612	9618	9619
9620	9621	9623	9626	9627
9633	9634	9635	9636	9637
9638	9640	9641	9642	9643
9644	9645	9647	9648	9649
9650	9651	9652	9653	9654
9655	9656	9657	9658	9659
9660	9661	9662	9664	9665
9666	9667	9673	9675	9678
9679	9681	9682	9683	9684
9686	9688	9689	9692	9694
9695	9696	9700	9701	9702
9703	9704	9707	9712	9713
9714	9715	9719	9720	9722
9723	9724	9726	9727	9728
9729	9730	9731	9733	9734
9735	9736	9737	9741	9742
9744	9746	9747	9748	9749
9754	9755	9762	9764	9765
9766	9767	9769	9770	9771
9772	9775	9776	9777	9778
9779	9780	9781	9784	9785
9788	9789	9790	9791	9793
9796	9797	9799	9802	9803
9806	9807	9808	9809	9810

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Reactor – Thermal Neutron (n,γ) (continued)

9811	9812	9814	9817	9822
9823	9829	9830	9831	9832
9833	9835	9836	9838	9839
9840	9841	9845	9846	9847
9848	9858	9859	9860	9861
9862	9866	9867	9868	9869
9870	9871	9872	9873	9876
9877	9882	9890	9892	9893
9900	9903	9904	9905	9911
9912	9913	9914	9915	9916
9918	9922	9923	9924	9925
9927	9928	9932	9937	9938
9939	9941	9942	9943	9944
9945	9946	9947	9948	9949
9950	9952	9953	9955	9960
9961	9962	9963	9964	9965
9966	9967	9968	9969	9971
9972	9973	9976	9977	9978
9979	9980	9981	9994	9995
9996	9998	9999	10022	10030
10033	10034	10035	10036	10037
10040	10044	10049	10050	10052
10056	10057	10060	10062	10063
10064	10065	10070	10076	10077
10078	10079	10080	10083	10084
10087	10092	10093	10094	10095
10096	10097	10098	10099	10100
10101	10104	10105	10106	10107
10108	10109	10110	10111	10112
10116	10117	10118	10119	10120
10121	10122	10123	10124	10125
10127	10128	10129	10132	10134
10135	10136	10137	10139	10140
10141	10144	10145	10152	10155
10156	10157	10158	10159	10160
10161	10169	10170	10171	10172
10175	10177	10178	10179	10180
10181	10184	10185	10186	10188
10189	10194	10195	10196	10201
10204	10205	10207	10210	10211
10212	10213	10214	10217	10218
10220	10221	10222	10228	10229
10230	10231	10232	10234	10236
10237	10240	10241	10242	10243
10245	10246	10250	10253	10255
10257	10258	10259	10260	10263
10264	10268	10269	10272	10273
10275	10278	10279	10281	10282
10283	10284	10286	10288	10289
10290	10291	10292	10294	10295
10301	10302	10303	10304	10305
10306	10307	10312	10318	10319
10320	10321	10322	10323	10325
10326	10327	10329	10331	10332
10333	10334	10343	10345	10347
10348	10351	10352	10354	10375
10377	10379	10380	10381	10382

Reactor – Thermal Neutron (n,γ) (continued)

10383	10385	10386	10388	10389
10390	10394	10395	10396	10397
10398	10400	10402	10403	10408
10411	10415	10418	10421	10422
10423	10424	10429	10430	10431
10432				

Reactor – Fast (n,p) (n,α) (n,n') (n,2n)

140	157	314	341	491
520	530	681	703	707
711	716	807	808	810
811	818	828	843	854
877	897	951	1157	1161
1167	1198	1327	1334	1340
1357	1374	1378	1403	1413
1415	1424	1427	1439	1455
1546	1547	1620	1639	1659
1717	1731	1814	1902	1907
1911	1965	2595	2623	2676
3059	3064	3361	3489	3494
3560	3965	3986	3997	4221
4227	5698	5759	6344	6370
6410	6568	6749	6968	7089
7172	7194	7285	7286	7321
7337	7424	7863	7864	7866
7874	7880	7946	7974	7975
8035	8065	8094	8098	8124
8173	8208	8308	8407	8843
8873	8899	9178	9269	9291
9350	9420	9437	9447	9462
9506	9528	9551	9563	9575
9616	9617	9639	9646	9693
9718	9735	9736	9740	9801
9864	9874	9897	10061	10067
10102	10142	10197	10219	10226
10295				

Reactor – Epithermal

140	520	807	818	828
862	1186	1439	1506	1659
1731	1910	2625	3385	3494
3975	3987	3998	4300	5848
7110	7124	7139	7203	7409
7928	7929	8362	8407	8837
9059	9364	9420	9500	9505
9590	9674	9851	9879	9909
10020	10029	10114	10201	

Isotope Neutron Sources – Plutonium and Lighter Elements

1	20	37	52	53
82	130	135	147	188
203	213	219	227	228
229	230	233	234	258

ACTIVATION ANALYSIS—TECHNIQUE USED

Isotope Neutron Sources – Plutonium and Lighter Elements (continued)

259	271	272	301	321
327	333	335	343	344
377	402	445	555	589
612	665	717	783	791
810	827	837	841	904
905	924	949	958	1055
1056	1061	1093	1111	1202
1259	1267	1295	1298	1315
1329	1336	1337	1357	1393
1423	1430	1440	1513	1558
1559	1586	1591	1630	1637
1651	1698	1740	1754	1758
1772	1822	1843	1857	1865
1873	1879	1880	1941	1961
2364	2698	2940	2956	2966
2987	3033	3078	3366	3373
3374	3375	3376	3399	3411
3489	3758	3948	3962	3996
4198	4215	4276	4289	5325
5356	5501	5566	5581	5854
5857	6221	6436	6706	6709
6717	6731	6844	6850	6977
6986	7037	7101	7103	7105
7144	7198	7258	7342	7347
7379	7878	8126	8318	8322
8975	9088	9089	9103	9180
9216	9239	9281	9381	9404
9490	9578	9584	9599	9698
9782	9821	9834	9852	9970
9975	10001	10002	10005	10011
10016	10018	10025	10149	10150
10151	10209	10376	10378	

Generator – or Sealed Tube (continued)

1875	1887	1889	1896	1899
1900	1905	1912	1922	1939
1940	1950	1954	1955	1956
1968	1978	1981	2129	2297
2354	2384	2410	2418	2433
2453	2498	2504	2505	2506
2512	2518	2519	2524	2526
2527	2542	2549	2561	2567
2568	2569	2580	2586	2591
2596	2598	2608	2615	2617
2620	2622	2649	2666	2667
2674	2678	2705	2707	2720
2734	2749	2761	2764	2778
2796	2798	2802	2806	2849
2933	2975	2983	2987	3058
3059	3063	3073	3074	3075
3076	3085	3087	3090	3335
3355	3357	3364	3366	3411
3460	3487	3495	3496	3497
3502	3553	3717	3718	3746
3751	3753	3781	3790	3794
3796	3810	3973	3976	3980
3981	4005	4205	4214	4228
4252	4260	4261	4273	4282
4392	5261	5321	5322	5332
5339	5353	5380	5383	5384
5389	5403	5409	5416	5420
5431	5432	5443	5445	5450
5451	5452	5708	5711	5714
5720	5739	5757	5764	5772
5776	5778	5780	5781	5782
5784	5884	5920	5923	5978
6014	6022	6059	6065	6075
6201	6222	6229	6301	6318
6325	6340	6352	6357	6358
6398	6402	6404	6684	6694
6703	6705	6713	6714	6718
6722	6723	6728	6730	6743
6750	6830	6840	6841	6845
6856	6967	6971	6973	6975
6978	7025	7026	7027	7028
7029	7030	7031	7033	7076
7097	7102	7114	7142	7176
7201	7202	7214	7217	7219
7259	7289	7290	7291	7293
7296	7297	7301	7302	7313
7318	7320	7330	7337	7338
7344	7351	7354	7387	7400
7403	7404	7411	7413	7417
7419	7460	7881	7902	7907
7912	7915	7917	7923	7926
7962	7966	7967	7968	7969
7970	8040	8046	8058	8059
8079	8085	8119	8138	8159
8176	8179	8240	8241	8304
8306	8314	8315	8367	8391
8415	8420	8810	8811	8821

Generator – or Sealed Tube

74	77	131	155	199
204	253	316	324	376
426	500	518	519	546
567	591	611	618	621
628	629	637	638	658
678	679	680	695	696
712	716	762	810	898
917	921	936	951	960
961	972	977	996	1017
1033	1046	1052	1054	1056
1067	1075	1084	1103	1104
1115	1116	1152	1172	1217
1229	1248	1258	1284	1294
1297	1304	1309	1353	1394
1397	1399	1407	1414	1437
1439	1444	1450	1453	1489
1508	1514	1522	1530	1535
1589	1593	1602	1619	1626
1640	1656	1666	1667	1670
1685	1698	1701	1721	1738
1739	1753	1773	1798	1802
1804	1813	1815	1859	1864

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Generator – or Sealed Tube (continued)

8825	8835	8839	8862	8870
8876	8877	8886	8888	8898
8908	8915	8917	8921	8923
8926	8930	8961	8977	8979
8981	9002	9020	9026	9028
9034	9035	9046	9049	9061
9065	9067	9091	9093	9099
9124	9155	9156	9162	9176
9196	9198	9200	9204	9210
9229	9231	9235	9240	9241
9244	9260	9269	9273	9278
9284	9288	9289	9294	9296
9314	9330	9339	9340	9346
9368	9416	9420	9426	9436
9465	9467	9468	9472	9477
9498	9499	9509	9519	9526
9537	9538	9539	9540	9543
9545	9546	9566	9571	9579
9580	9587	9588	9593	9597
9610	9613	9663	9685	9687
9688	9706	9718	9733	9734
9743	9746	9750	9751	9753
9758	9759	9760	9761	9773
9786	9794	9795	9804	9805
9819	9847	9853	9865	9884
9890	9896	9898	9901	9917
9918	9921	9929	9930	9931
9952	9984	10000	10004	10009
10010	10011	10017	10018	10038
10043	10046	10075	10081	10082
10100	10101	10126	10147	10173
10176	10189	10190	10198	10200
10202	10224	10251	10262	10263
10274	10276	10277	10285	10293
10300	10315	10316	10317	10330
10338	10346	10349	10353	10355
10356	10368	10374	10378	10425
10426	10428			

Accelerator – Neutrons (continued)

4198	4202	6372	6827	6949
7022	7023	7024	7249	7253
7372	7426	8012	8325	9368
9403	9420	9444	9518	9550
9739	10053	10219	10271	10349

Photon Activation (includes Isotope Source)

38	45	46	49	58
74	75	169	170	206
207	339	351	380	554
631	637	669	703	814
855	861	978	983	1006
1014	1043	1062	1075	1081
1083	1106	1136	1160	1163
1175	1178	1238	1263	1270
1334	1340	1375	1435	1444
1475	1481	1501	1560	1597
1609	1646	1764	1765	1778
1816	1849	1857	1861	1871
1926	1935	2126	2272	2298
2303	2318	2348	2495	2554
2555	2697	2758	2777	2965
2972	3072	3077	3346	3379
3474	3486	3495	3727	3729
3771	3775	3799	3803	3810
3970	3979	4189	4211	4277
4386	5308	5311	5319	5379
5430	5442	5520	5621	5740
5784	5870	5950	5954	5977
5979	6070	6225	6302	6317
6366	6368	6371	6584	6585
6586	6587	6593	6597	6676
6677	6678	6693	6698	6711
6742	6746	6843	6854	7015
7016	7017	7018	7020	7021
7106	7117	7127	7155	7186
7197	7232	7292	7314	7315
7316	7322	7343	7366	7389
7392	7406	7862	7920	7949
7952	7964	7994	7995	8000
8037	8048	8049	8090	8167
8184	8185	8186	8192	8206
8248	8312	8320	8376	8385
8387	8402	8419	8812	8813
8842	8864	8879	8887	8893
8910	8916	8928	8931	8971
9010	9033	9062	9090	9097
9220	9221	9232	9233	9236
9277	9298	9300	9303	9306
9376	9380	9398	9403	9411
9421	9424	9439	9451	9471
9477	9479	9484	9485	9487
9496	9497	9504	9519	9522
9531	9536	9543	9591	9592
9595	9614	9625	9669	9670
9671	9690	9691	9694	9716

Accelerator – Neutrons

16	17	23	91	92
98	108	109	111	113
125	175	189	205	274
275	304	316	376	403
413	520	549	574	580
596	635	639	647	660
732	733	780	841	863
872	875	876	934	965
967	1014	1026	1072	1075
1213	1319	1355	1407	1442
1444	1489	1509	1598	1623
1691	1808	1836	1838	1854
1917	1940	1963	2323	2510
2661	2668	2684	2686	2697
2774	2947	3461	3495	3496
3497	3752	3768	3791	3979

ACTIVATION ANALYSIS—TECHNIQUE USED

Photon Activation (includes Isotope Source) (continued)

9717	9721	9738	9745	9826
9827	9847	9849	9853	9910
9920	9985	9987	9988	9989
9990	9991	9992	9993	10028
10047	10055	10066	10097	10098
10100	10115	10144	10148	10189
10193	10235	10280	10328	10336
10393	10412	10413	10414	

Charged Particle (includes Isotope Source)

4	8	29	87	105
118	119	153	160	181
184	185	201	274	275
314	346	381	382	383
384	385	401	417	423
443	455	479	495	497
498	499	520	578	623
637	638	703	734	744
771	839	855	912	913
1013	1023	1065	1075	1091
1101	1148	1151	1194	1219
1232	1256	1280	1312	1318
1377	1408	1444	1450	1483
1486	1490	1561	1599	1604
1668	1704	1720	1742	1778
1811	1823	1831	1836	1837
1915	1935	1951	2254	2259
2298	2381	2429	2505	2531
2555	2618	2628	2629	2632
2634	2652	2673	2697	2712
2948	2949	3070	3071	3089
3351	3403	3411	3495	3711
3721	3722	3767	3777	3783
3791	3976	3977	3979	3995
4000	4193	4197	4198	4209
4211	4226	5177	5238	5330
5372	5429	5435	5442	5543
5580	5752	5768	5769	5773
5921	5938	5957	6004	6053
6056	6066	6072	6329	6339
6449	6450	6579	6580	6581
6582	6583	6587	6588	6589
6590	6591	6593	6594	6595
6596	6597	6598	6675	6680
6681	6682	6683	6736	6752
6949	6988	7007	7008	7009
7010	7011	7012	7013	7014
7015	7019	7036	7109	7162
7200	7213	7228	7230	7231
7238	7239	7248	7250	7307
7322	7343	7412	7875	7903
7905	7924	7936	7982	8028
8029	8034	8039	8044	8056
8087	8170	8201	8256	8276
8282	8303	8329	8330	8385
8412	8416	8801	8805	8810

Charged Particle (includes Isotope Source) (continued)

8846	8855	8859	8861	8863
8866	8890	8891	8892	8894
8923	8973	9001	9006	9013
9050	9058	9071	9074	9075
9113	9114	9182	9201	9244
9290	9307	9335	9337	9377
9403	9413	9421	9428	9433
9454	9466	9471	9483	9486
9487	9488	9491	9529	9535
9574	9577	9581	9586	9625
9632	9691	9694	9708	9745
9756	9757	9763	9768	9825
9843	9849	9850	9880	9899
9908	9982	10024	10026	10039
10041	10051	10063	10072	10131
10164	10182	10199	10215	10223
10235	10252	10270	10280	10337
10339	10340	10341	10391	10404
10405	10406	10407	10427	

Secondary Particle

110	196	256	391	654
655	756	770	782	784
867	868	981	1070	1071
1075	1082	1158	1252	1330
1450	1528	1532	1609	1675
1713	1730	1801	1979	2385
2543	2562	2661	2726	3965
3985	3992	6592	6669	7180
8316	8319	8849	8887	8965
9133	9175	9201	9305	9350
10097	10192			

Isotope Neutron Sources – Transplutonium Elements

1336	1337	1423	1544	1575
1642	1941	3465	4294	7192
7390	7414	8015	8018	8418
8871	8895	8896	9029	9292
9301	9308	9311	9420	9426
9463	9553	9564	9615	9818
10023	10154	10162	10163	10165
10166	10167	10168	10238	10249
10350	10358	10359	10360	10365
10366	10367	10369	10370	10371
10378	10387			

Nondestructive Determination

2	13	17	21	23
24	29	35	37	38
43	45	46	48	49
51	52	53	54	58
59	73	75	81	82
88	90	97	98	100

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Nondestructive Determination (continued)

102	104	105	107	108
109	110	113	114	118
119	120	125	130	131
135	136	140	144	147
148	151	153	155	163
169	170	171	175	179
184	185	188	189	198
199	204	205	206	207
213	215	216	219	227
228	229	232	233	237
238	239	240	246	252
253	259	266	267	268
271	272	274	275	291
300	301	304	305	319
323	325	330	331	333
339	343	344	346	349
351	357	358	371	375
380	381	382	386	387
393	396	397	402	403
405	407	408	413	414
417	423	426	428	433
444	445	454	455	460
461	462	468	472	476
479	486	487	488	489
491	494	499	500	512
514	516	518	519	520
521	523	524	530	533
538	546	549	552	554
555	561	562	566	567
573	574	578	580	581
584	589	590	591	592
594	596	598	604	605
606	607	608	612	618
619	620	621	623	625
628	629	630	631	632
635	640	641	654	657
658	659	662	665	667
669	670	686	687	690
695	696	702	703	707
709	711	712	713	716
717	725	726	732	733
738	739	744	752	753
754	755	756	758	762
763	770	771	774	775
782	783	784	791	797
798	803	806	807	808
810	811	814	818	819
822	823	831	839	842
843	844	845	850	851
852	853	854	855	861
862	863	868	882	887
888	902	904	905	908
912	913	914	915	916
921	924	927	932	933
934	936	938	939	940
943	946	948	949	950
951	955	956	957	958

Nondestructive Determination (continued)

959	960	961	966	972
974	977	978	981	982
983	986	987	989	990
991	992	993	994	996
1003	1004	1005	1006	1007
1008	1009	1011	1013	1014
1017	1019	1021	1023	1024
1025	1026	1029	1030	1031
1032	1033	1035	1036	1052
1054	1055	1056	1059	1060
1061	1062	1063	1064	1065
1066	1067	1068	1070	1071
1072	1073	1074	1075	1077
1078	1079	1081	1082	1083
1084	1088	1090	1092	1093
1095	1097	1098	1099	1103
1104	1106	1110	1111	1112
1114	1115	1116	1131	1132
1136	1140	1141	1143	1152
1153	1158	1160	1161	1162
1172	1175	1178	1195	1196
1197	1199	1200	1202	1203
1204	1213	1216	1217	1218
1219	1220	1225	1227	1228
1229	1233	1238	1239	1245
1248	1251	1252	1254	1256
1258	1259	1260	1263	1267
1269	1270	1279	1280	1283
1284	1289	1290	1294	1295
1297	1298	1302	1304	1306
1309	1311	1314	1315	1318
1336	1337	1351	1355	1357
1361	1374	1375	1376	1377
1380	1386	1389	1392	1393
1394	1395	1396	1397	1398
1399	1402	1403	1407	1413
1414	1415	1419	1420	1424
1427	1429	1435	1452	1453
1455	1456	1460	1466	1468
1472	1473	1477	1481	1483
1487	1491	1492	1495	1496
1500	1501	1504	1505	1506
1509	1510	1513	1514	1517
1519	1521	1522	1527	1530
1531	1532	1535	1541	1546
1547	1549	1550	1551	1552
1553	1555	1556	1558	1559
1565	1567	1572	1573	1574
1576	1578	1583	1585	1586
1589	1590	1591	1595	1597
1598	1599	1601	1604	1606
1611	1617	1618	1620	1623
1635	1637	1639	1642	1646
1649	1651	1654	1656	1664
1665	1666	1667	1670	1676
1677	1680	1683	1685	1686
1689	1691	1702	1706	1707

ACTIVATION ANALYSIS—TECHNIQUE USED

Nondestructive Determination (continued)

Nondestructive Determination (continued)

1709	1710	1712	1715	1717
1719	1721	1725	1726	1736
1737	1738	1739	1740	1746
1751	1752	1754	1758	1759
1760	1761	1764	1765	1772
1773	1778	1782	1783	1785
1787	1789	1790	1793	1794
1795	1798	1799	1802	1803
1804	1806	1809	1813	1814
1815	1816	1819	1821	1822
1823	1827	1829	1830	1831
1834	1837	1840	1843	1854
1855	1857	1859	1861	1865
1871	1873	1875	1878	1879
1881	1882	1886	1887	1888
1889	1896	1897	1898	1899
1900	1905	1906	1910	1912
1917	1921	1922	1924	1926
1929	1938	1939	1940	1941
1948	1950	1951	1953	1954
1955	1956	1957	1958	1961
1962	1965	1966	1968	1971
1978	1981	1983	1984	1985
2121	2123	2126	2129	2141
2144	2145	2146	2251	2254
2272	2297	2303	2318	2323
2337	2350	2354	2364	2376
2381	2384	2418	2422	2426
2429	2430	2433	2441	2453
2480	2481	2493	2495	2496
2497	2498	2502	2503	2504
2505	2506	2507	2508	2517
2518	2519	2524	2525	2526
2542	2548	2549	2553	2554
2559	2569	2571	2579	2580
2584	2586	2591	2596	2597
2598	2605	2607	2608	2610
2612	2614	2615	2618	2619
2621	2622	2623	2633	2634
2644	2645	2649	2651	2652
2660	2661	2663	2664	2666
2668	2671	2676	2678	2680
2684	2686	2688	2689	2694
2699	2705	2707	2711	2727
2730	2732	2734	2737	2739
2740	2744	2749	2750	2751
2756	2758	2759	2762	2764
2766	2774	2775	2777	2782
2789	2790	2796	2797	2798
2801	2802	2804	2805	2844
2892	2920	2921	2922	2927
2931	2933	2940	2942	2943
2945	2948	2949	2956	2957
2963	2964	2965	2966	2972
2976	2979	2981	2983	2987
3027	3033	3060	3062	3063
3078	3085	3087	3088	3089

3090	3126	3344	3346	3350
3355	3357	3358	3361	3362
3363	3364	3365	3366	3367
3368	3369	3370	3371	3372
3373	3374	3375	3376	3379
3384	3385	3386	3394	3399
3411	3418	3460	3461	3464
3466	3470	3473	3474	3486
3502	3514	3530	3553	3661
3708	3709	3710	3711	3717
3718	3721	3722	3727	3729
3730	3736	3738	3739	3740
3745	3746	3752	3753	3760
3766	3767	3768	3770	3771
3775	3778	3780	3781	3783
3788	3790	3791	3794	3797
3799	3803	3809	3810	3811
3841	3948	3954	3956	3965
3970	3973	3975	3976	3977
3980	3981	3986	3991	3992
3994	3996	3997	3998	4000
4005	4189	4191	4193	4194
4196	4197	4205	4207	4208
4209	4211	4214	4215	4216
4224	4226	4230	4231	4232
4240	4250	4252	4258	4260
4261	4262	4263	4270	4276
4277	4281	4282	4283	4284
4285	4286	4289	4293	4294
4308	4322	4328	4329	4347
4381	4386	4392	4406	5177
5238	5261	5262	5308	5311
5319	5320	5321	5322	5323
5325	5326	5330	5332	5343
5350	5353	5356	5358	5363
5370	5372	5380	5383	5384
5385	5386	5389	5390	5393
5394	5399	5401	5402	5403
5407	5408	5409	5420	5428
5429	5430	5431	5432	5435
5438	5445	5450	5451	5452
5501	5510	5515	5517	5543
5547	5551	5566	5571	5577
5579	5581	5591	5621	5698
5704	5706	5707	5708	5713
5714	5720	5726	5727	5732
5735	5739	5740	5742	5746
5749	5752	5756	5759	5761
5764	5765	5766	5768	5769
5772	5773	5776	5778	5779
5781	5782	5786	5788	5848
5858	5870	5872	5874	5884
5919	5920	5923	5925	5927
5931	5932	5933	5934	5936
5939	5950	5953	5958	5959
5965	5967	5969	5970	5975
5977	5978	5979	5992	5994

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Nondestructive Determination (continued)

Nondestructive Determination (continued)

6000	6004	6005	6011	6012
6014	6015	6031	6047	6048
6050	6052	6056	6058	6062
6063	6065	6068	6069	6072
6073	6074	6083	6201	6204
6209	6213	6217	6222	6227
6229	6244	6295	6297	6301
6302	6312	6313	6314	6315
6317	6324	6329	6331	6335
6339	6344	6346	6348	6352
6355	6358	6359	6366	6367
6368	6369	6370	6372	6375
6376	6378	6380	6382	6388
6393	6398	6404	6406	6436
6439	6442	6449	6450	6453
6454	6455	6459	6570	6572
6582	6584	6588	6589	6590
6595	6596	6668	6669	6673
6675	6676	6677	6678	6679
6680	6681	6682	6683	6684
6685	6686	6687	6688	6689
6690	6691	6694	6700	6702
6705	6706	6710	6711	6713
6714	6717	6720	6722	6723
6724	6728	6734	6735	6736
6740	6743	6745	6746	6748
6749	6750	6751	6752	6824
6827	6828	6839	6844	6845
6848	6850	6854	6856	6857
6859	6922	6923	6924	6927
6929	6930	6931	6936	6937
6938	6941	6943	6946	6948
6949	6950	6951	6955	6958
6959	6963	6964	6966	6967
6968	6969	6970	6973	6974
6975	6976	6977	6978	6982
6983	6985	6989	6990	6991
6992	6993	6994	6995	7011
7012	7013	7017	7020	7026
7030	7031	7035	7073	7076
7077	7082	7083	7084	7086
7089	7097	7101	7102	7103
7106	7109	7113	7123	7125
7127	7129	7131	7132	7133
7134	7139	7142	7144	7146
7147	7160	7162	7170	7171
7176	7180	7194	7195	7197
7198	7200	7201	7202	7203
7206	7209	7214	7215	7216
7217	7219	7220	7229	7234
7235	7238	7239	7240	7241
7248	7250	7252	7258	7260
7280	7282	7283	7285	7286
7289	7291	7292	7293	7295
7296	7297	7298	7301	7302
7303	7305	7307	7308	7314
7315	7316	7318	7320	7321

7328	7330	7331	7333	7337
7338	7341	7342	7344	7351
7353	7354	7355	7361	7365
7366	7371	7372	7379	7380
7382	7387	7388	7389	7390
7393	7396	7403	7404	7406
7410	7411	7412	7413	7414
7416	7417	7419	7422	7424
7425	7426	7431	7460	7862
7863	7866	7873	7878	7883
7885	7889	7894	7896	7898
7900	7901	7902	7903	7904
7907	7908	7912	7917	7920
7923	7926	7928	7929	7930
7935	7937	7939	7940	7941
7943	7946	7949	7957	7961
7964	7968	7969	7970	7974
7975	7988	7989	7994	7995
7996	7997	8001	8006	8007
8010	8011	8012	8017	8018
8021	8022	8023	8024	8034
8035	8038	8039	8041	8047
8049	8055	8056	8058	8059
8062	8067	8068	8069	8080
8082	8083	8090	8091	8094
8098	8099	8108	8109	8113
8114	8116	8118	8119	8120
8121	8122	8123	8126	8127
8128	8138	8139	8140	8141
8143	8144	8146	8147	8148
8151	8152	8156	8160	8163
8167	8174	8176	8179	8180
8183	8184	8185	8186	8187
8190	8191	8192	8196	8198
8201	8203	8209	8240	8241
8242	8245	8247	8252	8254
8274	8292	8293	8294	8296
8298	8299	8300	8304	8311
8312	8315	8320	8325	8328
8331	8333	8343	8345	8348
8351	8353	8359	8361	8363
8364	8371	8372	8373	8374
8375	8384	8388	8390	8392
8393	8402	8412	8415	8416
8421	8423	8801	8802	8805
8812	8813	8814	8815	8816
8820	8822	8825	8827	8828
8831	8832	8833	8834	8835
8837	8844	8847	8850	8854
8855	8861	8862	8863	8866
8870	8872	8874	8877	8882
8887	8890	8891	8894	8895
8899	8900	8911	8913	8915
8917	8926	8928	8930	8931
8932	8961	8962	8970	8973
8975	8977	8981	8993	8994
8995	9001	9002	9005	9010

ACTIVATION ANALYSIS—TECHNIQUE USED

Nondestructive Determination (continued)

9011	9012	9013	9017	9018
9026	9027	9029	9033	9034
9035	9036	9039	9040	9049
9051	9052	9057	9058	9065
9066	9067	9068	9074	9075
9076	9081	9084	9088	9089
9090	9093	9097	9098	9103
9105	9106	9107	9114	9123
9124	9128	9133	9134	9151
9152	9154	9155	9158	9160
9161	9165	9166	9171	9173
9176	9180	9198	9202	9204
9214	9216	9226	9227	9229
9230	9231	9232	9233	9235
9237	9240	9241	9244	9247
9257	9258	9260	9261	9262
9263	9266	9268	9274	9276
9277	9278	9280	9281	9284
9288	9291	9292	9294	9300
9301	9304	9305	9308	9311
9318	9321	9325	9330	9334
9335	9337	9338	9339	9340
9342	9346	9351	9352	9362
9364	9367	9371	9376	9377
9381	9395	9398	9404	9407
9411	9412	9414	9415	9418
9424	9426	9427	9428	9433
9436	9437	9439	9440	9442
9443	9447	9458	9459	9462
9463	9464	9465	9466	9472
9473	9475	9476	9478	9485
9486	9492	9494	9496	9498
9499	9502	9503	9504	9505
9506	9508	9509	9510	9512
9513	9514	9515	9516	9518
9519	9525	9526	9528	9530
9531	9532	9534	9537	9538
9543	9545	9546	9547	9548
9550	9551	9559	9562	9564
9568	9569	9571	9572	9573
9576	9577	9578	9579	9580
9581	9582	9583	9584	9585
9588	9590	9591	9592	9593
9596	9597	9598	9599	9609
9610	9612	9613	9615	9616
9617	9618	9619	9620	9621
9623	9626	9627	9635	9664
9675	9678	9679	9682	9683
9684	9685	9687	9689	9692
9693	9695	9696	9698	9700
9701	9704	9706	9707	9724
9736	9737	9739	9740	9741
9742	9744	9746	9747	9748
9749	9750	9754	9756	9757
9761	9762	9763	9764	9767
9769	9770	9771	9772	9773
9782	9784	9785	9786	9788

Nondestructive Determination (continued)

9789	9790	9791	9794	9797
9801	9802	9804	9807	9808
9809	9810	9812	9814	9817
9819	9821	9822	9823	9848
9849	9850	9852	9861	9864
9865	9866	9870	9873	9876
9879	9884	9892	9896	9897
9898	9899	9901	9903	9904
9911	9915	9917	9921	9922
9929	9931	9932	9937	9938
9941	9945	9946	9955	9960
9963	9970	9984	9987	9989
9990	9991	9992	9994	9995
9996	10000	10001	10004	10005
10010	10011	10024	10025	10026
10028	10033	10038	10040	10041
10043	10046	10050	10051	10053
10055	10056	10065	10066	10067
10072	10076	10077	10078	10079
10102	10104	10105	10106	10110
10111	10114	10115	10118	10120
10121	10125	10126	10129	10135
10137	10139	10142	10149	10150
10151	10156	10157	10160	10161
10163	10164	10165	10170	10171
10175	10176	10179	10180	10181
10182	10185	10186	10188	10192
10193	10197	10198	10200	10201
10205	10207	10209	10214	10215
10220	10222	10224	10228	10229
10230	10231	10232	10234	10250
10253	10255	10258	10260	10262
10263	10268	10271	10272	10273
10274	10275	10276	10278	10279
10282	10283	10284	10293	10294
10295	10301	10302	10307	10312
10315	10317	10318	10319	10321
10331	10332	10345	10346	10349
10350	10351	10353	10360	10370
10371	10374	10379	10383	10386
10388	10390	10391	10393	10394
10397	10402	10408	10423	10427
10432				

Chemistry – Dissolution Technique

103	192	212	239	254
255	260	270	322	436
442	465	469	470	473
482	512	522	550	610
651	677	698	706	718
815	821	881	909	910
1001	1155	1166	1167	1169
1171	1173	1174	1176	1192
1206	1207	1214	1436	1788
1842	1930	2154	2296	2365
2657	2836	2991	3334	5399

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Chemistry – Dissolution Technique (continued)

5444	7149	8297	8346	10138
10183	10184			

Chemistry – Group Separations

103	166	167	252	255
424	462	508	509	614
674	704	708	714	726
741	805	820	821	829
830	834	848	850	878
968	985	1045	1047	1069
1089	1118	1123	1134	1138
1254	1323	1425	1434	1443
1699	1710	1797	1800	1832
1894	1945	1965	1975	2403
2523	2715	2718	2729	2840
2852	2922	2936	2950	3382
4004	5344	5345	5347	5619
5760	5771	5785	5981	6071
6220	6323	6379	6569	6574
6575	6576	6577	6715	6729
6754	6838	6957	6962	6965
6972	6999	7000	7004	7154
7164	7211	7212	7254	7360
7938	7948	8054	8145	8238
8253	8836	9000	9086	9092
9117	9118	9129	9159	9172
9203	9256	9270	9271	9356
9659	9835	9845	9860	9943
9944	10093	10184	10385	10389

Chemistry – General

4	5	9	22	28
65	68	69	78	80
81	83	84	85	89
123	141	154	158	174
176	187	192	193	194
200	215	239	240	260
282	284	287	288	289
290	291	300	310	317
374	477	493	502	564
588	614	638	640	641
651	652	662	674	676
683	686	688	692	698
699	702	703	704	705
706	710	735	742	760
767	773	779	789	790
807	815	818	825	827
838	844	851	852	856
879	882	895	896	920
942	944	962	963	964
965	967	970	971	979
980	984	995	997	998
1000	1002	1004	1020	1022
1027	1034	1041	1057	1060
1075	1076	1085	1086	1087

Chemistry – General (continued)

1088	1094	1097	1102	1105
1107	1122	1145	1156	1165
1169	1170	1180	1183	1184
1187	1189	1190	1193	1194
1275	1283	1286	1312	1351
1354	1356	1357	1361	1371
1373	1382	1383	1384	1385
1396	1397	1400	1406	1408
1411	1421	1442	1457	1494
1652	1665	1675	1693	1694
1707	1709	1711	1713	1717
1723	1725	1760	1769	1786
1791	1803	1818	1828	1832
1848	1856	1858	1863	1890
1902	1907	1911	1914	1920
1933	1976	2296	2333	2447
2464	2473	2474	2495	2509
2522	2534	2535	2543	2546
2550	2578	2590	2601	2685
2687	2717	2721	2735	2802
2819	2848	2876	2892	2921
2922	2923	3079	3091	3382
3481	3483	3486	3504	3508
3514	3560	3708	3755	3962
3987	3988	3995	4153	4216
4219	4300	4315	4317	4319
5307	5327	5416	5436	5444
5499	5502	5716	5717	5718
5861	5864	5924	5940	5948
5976	5980	5982	5989	5991
6008	6016	6044	6055	6199
6203	6226	6307	6343	6394
6407	6451	6671	6712	6716
6739	6849	6851	6947	6956
6997	7081	7087	7092	7111
7135	7152	7172	7210	7218
7226	7233	7246	7281	7310
7311	7312	7375	7394	7407
7869	7877	7888	7919	7934
7945	7952	7959	7978	7983
7993	8065	8081	8086	8088
8110	8112	8115	8135	8154
8155	8162	8173	8197	8200
8214	8237	8239	8244	8246
8317	8321	8357	8377	8378
8380	8381	8382	8413	8807
8808	8823	8869	8901	8903
8964	8965	8966	8967	8980
8982	8984	8992	9007	9030
9174	9205	9206	9219	9250
9253	9285	9297	9298	9302
9327	9332	9379	9445	9446
9469	9633	9637	9641	9643
9652	9658	9661	9666	9714
9723	9727	9728	9735	9766
9830	9831	9832	9833	9840
9862	9868	9869	9872	9877

ACTIVATION ANALYSIS—TECHNIQUE USED

Chemistry – General (continued)

9914	9928	9939	9949	9950
9965	9968	10036	10037	10057
10098	10099	10100	10101	10123
10134	10136	10172	10217	10241
10288	10381			

Chemistry – Precipitation (continued)

1636	1648	1655	1660	1671
1672	1677	1682	1697	1705
1720	1734	1743	1745	1749
1750	1770	1781	1801	1812
1825	1833	1839	1844	1893
1936	1937	1970	1977	1979
1982	2122	2365	2385	2496
2497	2552	2573	2643	2654
2658	2669	2690	2751	2769
2772	2773	2786	2791	2792
2793	2821	2838	2839	2849
2852	2865	2878	2926	2930
2938	2954	2977	2982	2984
3061	3098	3105	3328	3352
3387	3391	3393	3395	3467
3485	3488	3713	3723	3724
3725	3726	3732	3785	3949
3957	3960	3985	3993	3994
4195	4219	4221	4227	4244
4249	4253	4255	4267	4268
4272	4290	4299	4307	5349
5359	5369	5406	5472	5522
5721	5731	5755	5777	5972
5983	6002	6010	6053	6064
6086	6206	6389	6390	6412
6445	6670	6693	6701	6755
6823	6834	6925	6933	6960
6996	7072	7099	7108	7112
7124	7138	7145	7193	7196
7256	7299	7329	7369	7374
7867	7874	7879	7884	7910
7913	7944	7979	7982	7999
8324	8326	8344	8356	8365
8824	8914	8919	8978	9130
9131	9164	9279	9286	9323
9341	9354	9355	9357	9634
9636	9638	9647	9648	9651
9657	9662	9669	9717	9913
9927	9982	10196	10316	10347
10396	10422			

Chemistry – Precipitation

6	7	10	11	12
30	31	32	39	44
54	55	56	63	64
66	67	96	103	115
116	124	130	133	137
138	139	145	146	148
161	165	172	178	180
183	209	214	217	221
223	225	227	230	231
232	234	236	243	244
246	249	250	252	254
255	262	263	270	279
300	302	304	326	329
349	351	353	360	361
362	363	364	366	367
391	398	400	411	416
422	429	431	432	434
436	448	449	452	459
461	465	467	478	482
483	501	512	517	522
525	531	535	537	541
544	545	553	560	562
571	575	585	586	587
620	622	655	673	675
677	687	689	727	757
776	777	778	788	792
802	805	815	821	858
867	869	871	878	892
907	922	928	929	937
945	1080	1108	1117	1118
1124	1125	1127	1135	1137
1151	1155	1159	1166	1169
1170	1171	1173	1174	1176
1177	1181	1182	1188	1205
1206	1207	1208	1212	1214
1215	1222	1223	1224	1226
1230	1231	1232	1235	1237
1240	1241	1243	1244	1246
1247	1257	1266	1271	1278
1292	1293	1299	1300	1307
1310	1319	1320	1323	1324
1326	1334	1340	1347	1351
1387	1428	1433	1449	1456
1458	1469	1471	1473	1477
1478	1480	1484	1515	1520
1525	1533	1542	1548	1563
1564	1568	1569	1571	1577
1581	1584	1592	1613	1614
1615	1621	1631	1632	1634

Chemistry – Distillation

8	10	11	62	103
117	121	122	124	134
142	143	172	181	186
196	197	221	222	226
231	242	245	248	256
279	284	322	370	378
451	465	474	475	481
493	498	562	570	602
636	709	804	812	851
864	871	911	1010	1012
1100	1119	1124	1135	1151
1157	1205	1211	1221	1226
1230	1231	1235	1246	1250
1278	1288	1326	1340	1412

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Chemistry – Distillation (continued)

1416	1425	1446	1470	1528
1542	1548	1560	1564	1648
1679	1730	1742	1744	1749
1862	1891	1904	1964	1969
2157	2403	2515	2537	2540
2562	2563	2661	2701	2712
2731	2795	2813	2853	2954
3360	3713	3725	3726	3732
3789	3808	3965	4217	4254
4255	4268	4269	4274	4278
4305	4321	5295	5358	5364
5366	5449	5851	5926	5938
5954	6039	6386	6387	6389
6390	6392	6401	6405	6441
6446	6580	6585	6591	6674
6719	6742	6831	6842	6843
6846	6853	6934	6939	6954
7018	7019	7227	7230	7242
7332	7391	7870	7893	7899
7906	7911	7921	8037	8206
8212	8323	8387	8818	8842
8878	8879	8916	8971	8990
9008	9113	9170	9179	9181
9209	9215	9333	9366	9380
9394	9396	9639	9640	9646
9660	9670	9671	9716	9718
9721	9874	9948	10158	10252
10375	10398			

Chemistry – Solvent Extraction

12	26	33	34	40
41	42	50	62	66
116	117	124	133	137
138	140	145	146	165
178	183	186	210	212
221	229	234	235	239
243	249	252	254	255
262	269	328	361	362
367	379	409	410	412
422	424	443	482	485
490	492	507	563	565
575	586	591	601	634
772	781	804	810	813
815	858	864	866	867
878	880	883	906	928
952	1015	1028	1096	1109
1121	1125	1127	1133	1135
1139	1143	1145	1146	1147
1150	1153	1156	1159	1166
1167	1168	1173	1184	1191
1201	1211	1212	1215	1231
1234	1235	1243	1244	1250
1262	1264	1266	1273	1274
1278	1292	1307	1313	1317
1323	1324	1325	1326	1340
1391	1401	1426	1431	1433

Chemistry – Solvent Extraction (continued)

1442	1456	1458	1470	1477
1480	1497	1518	1526	1537
1538	1548	1564	1566	1569
1581	1592	1603	1610	1614
1615	1621	1632	1648	1653
1671	1692	1703	1728	1741
1743	1748	1749	1763	1767
1788	1820	1825	1833	1841
1874	1895	1901	1913	1930
1931	1960	1980	2036	2154
2340	2347	2369	2386	2431
2434	2444	2445	2455	2499
2502	2525	2539	2611	2613
2641	2683	2690	2696	2752
2753	2754	2769	2791	2792
2793	2795	2811	2873	2881
2888	2889	2951	2991	3005
3084	3342	3345	3391	3395
3476	3482	3713	3714	3804
3957	3982	4190	4203	4253
4255	4269	4302	4311	4314
5335	5349	5365	5369	5397
5415	5500	5699	5703	5719
5728	5729	5730	5770	5775
5787	5793	5868	5928	5935
5949	5955	5960	5995	5996
5999	6013	6017	6054	6061
6202	6205	6214	6215	6303
6309	6322	6328	6351	6353
6385	6405	6692	6696	6727
6825	6833	6836	6852	6860
6921	6928	6933	6940	6942
6944	6961	6981	7005	7080
7093	7095	7118	7119	7122
7149	7182	7326	7336	7359
7376	7401	7405	7408	7951
7986	7998	8051	8060	8070
8111	8130	8164	8181	8204
8295	8327	8332	8338	8355
8358	8386	8826	8838	8853
8881	8889	8988	9060	9112
9153	9169	9178	9218	9265
9287	9293	9353	9360	9361
9417	9425	9460	9644	9653
9655	9656	9665	9674	9703
9720	9722	9729	9871	9923
9942	9961	9964	9979	10034
10060	10124	10196	10236	10286
10291	10304	10305	10328	

Chemistry – Chromatography or Ion Exchange

14	47	50	54	61
79	87	93	96	115
138	140	145	146	160
212	225	252	258	263

ACTIVATION ANALYSIS—TECHNIQUE USED

Chemistry – Chromatography or Ion Exchange (continued)

267	325	331	356	390
416	418	421	422	434
439	442	450	504	520
542	548	550	595	606
689	717	723	726	728
730	799	870	871	874
878	892	899	900	909
919	923	988	999	1015
1016	1038	1047	1063	1101
1107	1168	1169	1176	1205
1209	1210	1214	1221	1222
1236	1243	1265	1272	1277
1281	1285	1287	1292	1307
1323	1324	1332	1333	1381
1404	1410	1421	1428	1431
1432	1434	1441	1449	1454
1463	1469	1470	1471	1474
1477	1478	1486	1512	1529
1564	1566	1584	1592	1596
1603	1607	1613	1616	1632
1633	1634	1644	1645	1668
1677	1678	1679	1681	1682
1704	1708	1722	1732	1741
1759	1762	1766	1780	1797
1800	1805	1811	1817	1824
1835	1839	1844	1872	1892
1894	1925	1945	1952	1957
1959	1973	1983	2052	2148
2149	2283	2308	2327	2386
2480	2496	2513	2523	2557
2638	2639	2640	2654	2669
2687	2690	2695	2713	2714
2725	2741	2754	2776	2794
2800	2812	2846	2849	2852
2870	2882	2888	2901	2902
2904	2932	2973	2989	2999
3005	3065	3093	3341	3383
3397	3414	3475	3661	3714
3716	3731	3757	3759	3774
3789	3808	3810	3955	3957
3958	3959	3961	3964	3990
4004	4192	4219	4267	4268
4291	4301	4388	4391	4410
4411	5336	5338	5341	5359
5368	5378	5382	5405	5410
5422	5439	5447	5448	5697
5750	5751	5790	5792	5808
5862	5873	5941	5951	5955
5961	5962	5963	5964	5981
6001	6007	6040	6043	6067
6077	6078	6079	6084	6085
6202	6207	6211	6228	6308
6354	6356	6383	6395	6397
6405	6409	6410	6438	6443
6444	6569	6574	6697	6707
6733	6741	6755	6825	6826
6829	6831	6858	6935	6961

Chemistry – Chromatography or Ion Exchange (continued)

6998	7002	7003	7091	7096
7107	7137	7143	7145	7148
7164	7165	7166	7167	7168
7181	7196	7211	7223	7236
7257	7294	7300	7304	7306
7326	7360	7362	7364	7370
7373	7377	7391	7397	7420
7423	7427	7865	7927	7933
7947	7976	7981	7990	8005
8052	8063	8064	8071	8074
8075	8158	8168	8193	8208
8285	8309	8339	8354	8848
8884	8885	8918	8929	8985
8987	8989	8991	9019	9063
9064	9079	9083	9100	9110
9111	9168	9170	9255	9271
9303	9341	9343	9356	9370
9393	9406	9432	9449	9455
9456	9457	9642	9650	9665
9673	9715	9726	9829	9838
9859	9920	9925	9943	9969
9978	9980	9981	10035	10044
10070	10094	10108	10109	10119
10128	10177	10194	10240	10242
10264	10289	10290	10303	10306
10322	10334	10377	10382	10418

Chemistry – Electrodeposition

138	211	261	340	395
579	832	1113	1129	1192
1221	1313	1391	1471	1525
2511	2728	2929	3991	4201
4303	5395	5398	6076	8340
8341	8342	9649	9668	9859
9875	10064	10159		

Chemistry – Isotope Exchange

126	436	539	540	636
1525	2277	2551	5701	5712
5860	6080	9119	9328	9712
9713	10329			

Chemistry – Amalgam Exchange

740	815	1411	2006	2978
3989	4309	5942	10122	10380

Chemistry – Szilard–Chalmers

153	328	1333	2473	2871
7399	9962			

Chemistry – Substoichiometric

425	768	1121	1159	1291
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ACTIVATION ANALYSIS – BIBLIOGRAPHY

Chemistry – Substoichiometric (continued)					1242	1342	1479	1534	1747
1346	1493	1575	1579	1587	1870	2748	2969	3469	4296
1588	1974	2153	2154	2358	5357	7255	8171		
2560	2845	3396	3804	4306					
4310	5922	5956	5984	6024					
6294	6298	6334	6337	6667					
6738	6980	7174	7225	7237					
7890	7931	7932	8165	8202					
8983	8986	9048	9102	9109					
9120	9121	9345	9405	9414					
9461	9645	9654	9667	9836					
9839	9841	9926	9966	9967					
10292	10348	10354	10421	10424					
10429	10430								
					Gamma Spectrometry				
					2	4	5	9	12
					13	14	15	17	21
					26	28	29	33	34
					35	39	40	41	42
					43	44	48	50	54
					55	56	58	59	61
					64	78	79	80	81
					89	90	103	104	107
Chemistry – Automated					113	116	117	130	131
708	1042	2403	2556	2558	136	137	140	145	146
2901	5760	6304	6838	6939	148	153	160	165	167
7948	8860	9021	9023	9172	172	173	175	178	179
9712	9713	10035	10289		183	184	185	193	197
					199	205	212	215	221
					237	238	239	252	253
Chemistry – Absorption or Adsorption					254	255	258	259	260
192	1539	1543	7243	7421	267	268	272	279	284
7914	8019	8020	8131	8133	288	289	290	291	301
8195	9094	9122	9135	9246	302	304	305	310	312
9343	9379	9480	9725	9912	314	317	318	319	321
9924	10333				323	325	326	328	329
					330	331	339	343	344
					349	351	352	353	356
Rapid Radiochemical Separation					357	364	370	371	374
254	442	583	686	697	375	377	386	387	390
811	821	829	830	834	391	395	398	403	405
953	982	1172	1409	1412	407	409	410	412	414
1425	1434	1446	1692	2157	416	418	422	423	425
2499	2611	2636	2954	3388	426	430	433	434	439
3487	3669	3989	5336	7138	442	444	445	448	450
8066					454	455	459	460	461
					472	473	476	482	486
					487	488	489	493	494
Isotope Dilution					500	504	507	508	509
172	195	1018	1750	2887	516	518	519	521	531
3084	3093	4298	5753	9116	533	535	542	546	548
					552	555	560	561	562
					564	566	567	570	573
Electromagnetic Isotope Separator					574	581	583	584	585
6396	9940				586	587	588	590	592
					596	601	604	605	606
					607	608	614	619	620
Derivative Activation Analysis					622	623	625	628	630
1462	2665	2722	5743	5747	634	635	636	637	638
7204	7977	7985	8243		640	641	649	652	653
					655	657	658	659	662
					665	667	676	686	687
Separation of Similar Organic Compounds with Paper Chromatography before Irradiation					688	689	690	693	695
437	438	954	975	976	696	698	701	702	703
					705	706	707	708	709

ACTIVATION ANALYSIS—TECHNIQUE USED

Gamma Spectrometry (continued)

710	711	712	713	714
716	718	726	727	732
733	735	738	740	741
752	753	754	756	758
760	762	763	767	768
771	772	773	777	781
784	788	789	790	791
792	796	797	798	802
803	804	805	806	810
811	812	813	814	818
820	821	822	823	824
825	827	829	830	831
833	834	844	845	848
849	850	851	852	855
856	861	863	866	867
871	879	880	881	882
883	884	886	887	888
892	899	902	903	906
907	912	913	915	919
920	923	924	927	930
931	932	933	934	935
936	938	940	942	943
944	945	946	948	950
951	953	955	956	957
959	960	961	962	964
966	968	971	972	974
977	980	982	984	986
987	988	989	990	992
994	995	996	997	998
999	1001	1002	1003	1004
1005	1006	1007	1008	1009
1010	1011	1012	1014	1017
1019	1020	1021	1022	1024
1027	1029	1031	1032	1033
1034	1035	1036	1038	1041
1042	1043	1047	1052	1055
1056	1060	1063	1064	1065
1066	1068	1072	1073	1074
1075	1076	1077	1084	1086
1087	1089	1090	1092	1094
1095	1097	1098	1099	1100
1101	1102	1103	1105	1106
1107	1108	1109	1110	1112
1114	1116	1117	1118	1119
1124	1129	1132	1134	1137
1138	1139	1140	1141	1143
1150	1151	1152	1153	1157
1158	1159	1161	1162	1166
1167	1168	1169	1170	1171
1172	1173	1174	1176	1182
1183	1184	1185	1187	1189
1190	1191	1192	1194	1195
1196	1199	1200	1201	1202
1203	1204	1205	1206	1207
1208	1209	1210	1211	1212
1213	1214	1215	1216	1217
1218	1220	1221	1222	1223

Gamma Spectrometry (continued)

1224	1225	1226	1227	1228
1229	1230	1231	1232	1233
1234	1235	1236	1238	1239
1240	1241	1243	1244	1245
1246	1247	1248	1250	1251
1254	1256	1257	1258	1263
1264	1265	1269	1272	1273
1275	1277	1279	1281	1283
1284	1286	1288	1289	1290
1291	1293	1294	1295	1297
1299	1300	1304	1306	1309
1310	1311	1312	1313	1314
1317	1318	1319	1320	1323
1325	1327	1332	1333	1334
1340	1347	1355	1356	1358
1359	1361	1369	1374	1375
1376	1381	1382	1383	1384
1386	1391	1395	1396	1397
1398	1400	1402	1403	1404
1406	1407	1408	1409	1410
1411	1412	1413	1414	1415
1417	1419	1420	1421	1424
1425	1426	1427	1428	1429
1432	1433	1434	1436	1437
1438	1442	1443	1446	1447
1452	1453	1454	1455	1456
1460	1466	1468	1469	1470
1471	1472	1473	1477	1478
1480	1481	1484	1486	1487
1491	1492	1493	1494	1496
1497	1501	1504	1505	1508
1509	1510	1512	1514	1515
1517	1518	1519	1521	1522
1525	1526	1527	1528	1529
1530	1531	1532	1533	1535
1537	1538	1539	1540	1541
1542	1543	1548	1549	1550
1551	1552	1554	1555	1556
1558	1559	1560	1563	1564
1565	1566	1567	1568	1569
1571	1572	1574	1578	1581
1583	1584	1585	1586	1587
1588	1589	1590	1591	1592
1595	1596	1597	1598	1599
1601	1603	1606	1607	1610
1613	1614	1615	1617	1620
1628	1631	1633	1634	1635
1639	1642	1643	1644	1645
1646	1648	1649	1652	1653
1654	1655	1656	1665	1670
1672	1673	1676	1677	1678
1679	1680	1682	1689	1691
1692	1697	1699	1702	1705
1706	1707	1708	1709	1710
1712	1715	1717	1719	1721
1722	1723	1725	1732	1734
1735	1736	1737	1738	1739

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Gamma Spectrometry (continued)

1740	1741	1742	1744	1745
1746	1748	1749	1750	1759
1760	1761	1765	1766	1767
1769	1781	1786	1789	1790
1791	1793	1794	1795	1797
1798	1799	1803	1804	1805
1806	1809	1813	1815	1817
1821	1825	1827	1828	1829
1831	1832	1833	1835	1837
1840	1842	1844	1848	1851
1854	1855	1856	1860	1863
1875	1878	1881	1882	1884
1885	1887	1889	1890	1891
1892	1893	1894	1896	1897
1899	1900	1901	1902	1904
1905	1906	1907	1910	1911
1912	1917	1920	1921	1925
1926	1929	1930	1931	1934
1936	1938	1939	1942	1943
1944	1950	1953	1954	1956
1957	1960	1961	1962	1964
1966	1968	1969	1970	1971
1973	1975	1978	1981	1982
1983	2121	2122	2123	2126
2129	2141	2144	2145	2154
2157	2251	2272	2283	2296
2297	2327	2337	2347	2354
2358	2369	2376	2381	2384
2385	2386	2403	2418	2422
2426	2430	2431	2433	2440
2441	2445	2447	2453	2455
2464	2474	2480	2481	2493
2494	2495	2496	2497	2498
2499	2502	2503	2504	2505
2506	2507	2508	2509	2511
2515	2517	2519	2524	2525
2526	2535	2537	2539	2540
2542	2548	2549	2550	2551
2552	2553	2558	2562	2563
2565	2569	2571	2573	2578
2580	2584	2586	2590	2591
2596	2598	2601	2605	2607
2608	2611	2613	2614	2615
2618	2619	2621	2622	2623
2626	2638	2639	2641	2645
2649	2651	2652	2658	2660
2661	2663	2664	2666	2668
2669	2671	2676	2678	2683
2684	2685	2686	2688	2689
2690	2694	2695	2696	2699
2701	2705	2707	2711	2713
2715	2717	2718	2721	2725
2727	2728	2730	2732	2733
2734	2735	2737	2739	2740
2741	2744	2749	2750	2752
2753	2754	2756	2758	2760
2764	2766	2769	2773	2774

Gamma Spectrometry (continued)

2775	2776	2782	2786	2789
2790	2791	2792	2793	2795
2797	2798	2800	2801	2802
2804	2805	2819	2821	2836
2838	2840	2844	2846	2848
2852	2870	2871	2876	2881
2882	2888	2889	2892	2902
2904	2920	2921	2922	2923
2926	2929	2930	2931	2933
2936	2938	2948	2950	2957
2964	2965	2972	2973	2977
2978	2981	2983	2984	2989
2991	2999	3005	3027	3060
3061	3062	3063	3064	3065
3070	3073	3075	3076	3077
3079	3081	3085	3087	3088
3090	3091	3093	3098	3283
3328	3341	3342	3344	3345
3346	3350	3352	3355	3357
3358	3360	3363	3364	3365
3366	3367	3368	3369	3370
3371	3372	3373	3374	3375
3382	3383	3384	3385	3386
3387	3388	3395	3396	3411
3414	3418	3461	3467	3468
3470	3474	3475	3476	3483
3485	3486	3487	3488	3490
3491	3492	3502	3504	3514
3530	3553	3560	3661	3708
3710	3713	3716	3718	3723
3724	3725	3730	3731	3736
3738	3739	3740	3741	3745
3752	3753	3757	3759	3766
3768	3769	3770	3771	3774
3775	3780	3781	3783	3785
3788	3789	3790	3791	3794
3797	3799	3803	3804	3808
3809	3810	3841	3948	3949
3954	3955	3956	3957	3958
3959	3960	3961	3964	3973
3975	3976	3980	3982	3986
3988	3989	3990	3991	3992
3994	3996	3997	3998	4153
4189	4190	4191	4192	4193
4194	4195	4196	4197	4201
4203	4205	4208	4209	4214
4215	4216	4217	4221	4224
4226	4227	4230	4231	4232
4240	4244	4249	4250	4252
4253	4254	4255	4258	4260
4261	4263	4267	4269	4270
4272	4273	4274	4276	4281
4282	4283	4284	4285	4286
4290	4291	4293	4294	4298
4299	4300	4301	4302	4303
4305	4306	4307	4308	4309
4311	4314	4315	4321	4322

ACTIVATION ANALYSIS—TECHNIQUE USED

Gamma Spectrometry (continued)

4328	4329	4347	4381	4392
4406	5307	5308	5311	5321
5322	5325	5326	5327	5332
5335	5336	5338	5341	5343
5344	5345	5347	5349	5358
5359	5363	5364	5365	5366
5368	5369	5370	5378	5379
5380	5382	5383	5384	5386
5389	5390	5393	5394	5398
5401	5402	5407	5409	5410
5415	5416	5420	5428	5430
5431	5432	5435	5438	5444
5445	5447	5448	5449	5450
5451	5452	5498	5499	5500
5502	5510	5571	5579	5619
5697	5698	5699	5703	5704
5705	5706	5707	5708	5712
5713	5714	5716	5717	5718
5720	5721	5725	5726	5727
5728	5729	5730	5732	5739
5740	5742	5746	5749	5750
5751	5753	5755	5759	5760
5761	5764	5768	5770	5771
5772	5775	5776	5777	5778
5781	5785	5786	5787	5790
5792	5793	5808	5853	5858
5860	5868	5870	5872	5873
5874	5884	5920	5921	5922
5923	5924	5925	5926	5934
5935	5939	5940	5941	5942
5948	5949	5950	5951	5954
5955	5958	5959	5960	5961
5962	5963	5964	5967	5969
5970	5972	5975	5976	5978
5979	5981	5983	5989	5991
5992	5994	5995	5996	5999
6001	6002	6005	6006	6007
6008	6010	6011	6013	6014
6015	6016	6023	6029	6039
6040	6043	6048	6050	6052
6054	6055	6056	6058	6061
6062	6063	6064	6065	6067
6068	6071	6074	6077	6080
6081	6085	6199	6201	6202
6203	6204	6205	6206	6207
6209	6211	6213	6214	6215
6217	6222	6223	6228	6229
6244	6294	6295	6298	6301
6302	6303	6307	6308	6309
6312	6314	6317	6322	6323
6324	6328	6331	6335	6337
6343	6348	6351	6352	6354
6355	6356	6358	6359	6370
6372	6376	6378	6382	6384
6385	6388	6392	6394	6395
6398	6404	6405	6406	6409
6410	6438	6441	6443	6444

Gamma Spectrometry (continued)

6446	6451	6453	6454	6570
6572	6584	6588	6589	6590
6591	6667	6670	6671	6673
6674	6676	6677	6678	6679
6680	6684	6687	6688	6690
6692	6693	6694	6695	6697
6699	6701	6705	6707	6710
6712	6715	6716	6717	6719
6720	6721	6722	6723	6727
6728	6733	6734	6735	6738
6739	6741	6743	6745	6746
6749	6750	6754	6755	6823
6824	6825	6826	6827	6828
6831	6832	6836	6842	6844
6845	6846	6849	6851	6852
6853	6854	6856	6857	6858
6859	6860	6922	6925	6927
6928	6929	6933	6934	6935
6937	6938	6939	6940	6942
6944	6946	6947	6948	6951
6954	6955	6956	6957	6960
6965	6967	6968	6973	6974
6975	6976	6977	6978	6980
6990	6991	6992	6994	7002
7004	7011	7012	7013	7018
7019	7020	7026	7030	7031
7039	7040	7058	7073	7076
7080	7082	7083	7084	7086
7089	7096	7097	7099	7102
7103	7106	7107	7108	7111
7113	7118	7119	7122	7123
7124	7129	7131	7132	7134
7135	7137	7142	7143	7146
7147	7148	7149	7152	7160
7164	7165	7167	7168	7170
7171	7174	7176	7181	7182
7186	7193	7194	7196	7197
7198	7201	7202	7203	7206
7209	7210	7211	7212	7214
7215	7217	7218	7219	7225
7226	7229	7230	7234	7235
7237	7241	7242	7246	7248
7250	7257	7260	7280	7281
7282	7283	7289	7291	7292
7293	7295	7296	7297	7298
7299	7300	7301	7302	7303
7304	7305	7306	7307	7308
7311	7314	7315	7316	7318
7320	7326	7328	7329	7330
7331	7336	7337	7338	7341
7342	7344	7351	7353	7354
7355	7359	7360	7362	7364
7365	7366	7372	7373	7374
7375	7376	7377	7382	7387
7388	7389	7390	7391	7394
7396	7397	7399	7401	7402
7403	7404	7407	7408	7410

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Gamma Spectrometry (continued)

7413	7414	7417	7420	7422
7423	7424	7425	7426	7427
7460	7865	7867	7869	7873
7878	7879	7883	7884	7885
7888	7889	7893	7896	7898
7899	7901	7902	7906	7907
7908	7910	7911	7912	7913
7914	7917	7919	7920	7921
7923	7926	7927	7928	7929
7930	7933	7934	7938	7939
7945	7947	7948	7951	7952
7957	7959	7961	7968	7969
7970	7974	7976	7978	7979
7981	7986	7988	7989	7990
7993	7995	7996	7997	7998
7999	8000	8001	8005	8007
8012	8017	8023	8024	8034
8041	8047	8051	8052	8055
8057	8058	8059	8060	8063
8064	8065	8068	8070	8071
8074	8075	8080	8085	8086
8090	8091	8098	8099	8100
8108	8109	8110	8111	8112
8113	8114	8115	8116	8118
8119	8120	8121	8122	8123
8127	8128	8130	8135	8138
8141	8151	8152	8154	8155
8156	8160	8164	8168	8173
8175	8176	8179	8181	8183
8184	8185	8186	8187	8192
8197	8198	8200	8201	8202
8203	8204	8206	8208	8209
8212	8237	8239	8240	8241
8242	8244	8245	8246	8247
8254	8274	8280	8293	8294
8295	8296	8298	8299	8300
8304	8309	8311	8312	8315
8321	8323	8324	8326	8327
8332	8338	8343	8344	8345
8348	8351	8353	8354	8355
8356	8357	8358	8359	8364
8365	8372	8374	8375	8377
8378	8379	8380	8381	8382
8384	8386	8387	8388	8390
8392	8402	8413	8415	8416
8421	8423	8424	8802	8808
8812	8813	8814	8816	8818
8820	8823	8824	8825	8826
8828	8833	8844	8847	8848
8850	8853	8862	8870	8872
8877	8879	8881	8882	8887
8889	8891	8894	8900	8911
8914	8915	8917	8918	8919
8926	8930	8931	8932	8961
8962	8964	8965	8967	8970
8973	8975	8977	8978	8980
8981	8984	8986	8987	8989

Gamma Spectrometry (continued)

8990	8991	8992	8993	8994
9000	9001	9002	9008	9010
9013	9018	9019	9026	9030
9031	9032	9033	9034	9035
9036	9039	9048	9049	9051
9057	9058	9060	9063	9065
9067	9075	9079	9082	9083
9084	9086	9088	9089	9090
9093	9097	9098	9099	9102
9103	9110	9111	9112	9113
9116	9120	9123	9124	9130
9134	9151	9152	9153	9154
9155	9157	9158	9159	9160
9164	9165	9166	9168	9169
9170	9171	9173	9174	9176
9178	9179	9181	9198	9202
9204	9205	9214	9216	9218
9226	9227	9229	9230	9231
9232	9233	9235	9237	9240
9241	9244	9247	9250	9255
9260	9261	9262	9263	9265
9266	9268	9269	9271	9277
9278	9280	9284	9285	9286
9287	9288	9293	9294	9300
9301	9303	9305	9308	9316
9317	9318	9321	9323	9325
9328	9330	9332	9333	9335
9337	9338	9339	9340	9343
9346	9351	9352	9354	9355
9356	9360	9361	9362	9369
9370	9371	9377	9378	9381
9393	9395	9398	9404	9412
9414	9415	9417	9425	9426
9427	9436	9437	9440	9442
9446	9449	9455	9457	9460
9462	9465	9469	9472	9475
9476	9492	9494	9496	9498
9499	9503	9504	9505	9508
9509	9510	9513	9514	9515
9516	9518	9519	9525	9526
9532	9537	9538	9543	9545
9546	9550	9554	9559	9571
9572	9573	9579	9580	9581
9583	9584	9585	9588	9590
9596	9597	9598	9599	9609
9610	9613	9617	9620	9621
9626	9633	9634	9635	9636
9637	9638	9640	9641	9642
9643	9644	9647	9648	9653
9654	9655	9656	9659	9660
9661	9662	9664	9665	9666
9667	9669	9671	9673	9674
9675	9685	9687	9688	9689
9696	9698	9700	9703	9706
9707	9712	9713	9714	9715
9720	9721	9722	9724	9726
9727	9730	9731	9735	9736

ACTIVATION ANALYSIS—TECHNIQUE USED

Gamma Spectrometry (continued)

9737	9739	9741	9747	9748
9749	9750	9761	9773	9778
9781	9782	9784	9786	9788
9789	9790	9791	9794	9802
9804	9809	9812	9819	9821
9822	9832	9833	9835	9838
9839	9841	9845	9852	9859
9861	9862	9865	9866	9874
9876	9877	9884	9893	9896
9897	9898	9899	9901	9903
9911	9912	9913	9914	9915
9917	9920	9921	9924	9925
9928	9929	9931	9937	9939
9941	9942	9943	9948	9949
9960	9961	9962	9964	9965
9966	9967	9968	9980	9981
9984	9990	9991	9992	9995
9996	10000	10004	10005	10010
10011	10019	10024	10025	10026
10028	10035	10036	10037	10038
10040	10041	10043	10044	10046
10049	10053	10055	10056	10057
10060	10062	10064	10065	10066
10070	10093	10098	10099	10100
10101	10102	10104	10105	10106
10107	10108	10109	10111	10112
10113	10115	10118	10120	10121
10123	10124	10126	10127	10128
10129	10135	10136	10137	10139
10149	10150	10151	10158	10159
10161	10164	10170	10171	10172
10175	10176	10182	10184	10185
10186	10192	10194	10195	10196
10198	10200	10203	10209	10217
10220	10236	10240	10241	10242
10250	10262	10264	10268	10271
10273	10274	10275	10276	10278
10283	10284	10286	10288	10289
10290	10291	10292	10293	10294
10296	10303	10305	10306	10307
10312	10317	10318	10319	10322
10325	10329	10333	10334	10345
10346	10348	10353	10354	10370
10371	10374	10379	10382	10389
10390	10408	10410	10421	10424
10429	10430			

Solid State Gamma Spectrometry (continued)

6359	6360	6371	6375	6379
6380	6383	6407	6439	6442
6445	6455	6691	6700	6702
6729	6740	6748	6923	6924
6930	6931	6932	6936	6941
6943	6949	6950	6962	6963
6964	6966	6969	6970	6972
6982	6983	6993	6999	7039
7040	7042	7072	7077	7112
7125	7154	7186	7195	7207
7216	7220	7222	7227	7243
7245	7251	7254	7256	7285
7317	7333	7340	7341	7393
7416	7431	7935	7937	7944
7983	8010	8011	8019	8020
8038	8054	8067	8083	8085
8139	8140	8141	8142	8143
8145	8146	8147	8148	8190
8191	8196	8199	8239	8240
8252	8317	8331	8333	8393
8410	8827	8831	8834	8836
8840	8860	8896	8913	8982
8985	8988	8995	8998	9005
9007	9011	9012	9017	9040
9052	9054	9064	9066	9068
9076	9082	9086	9092	9099
9105	9106	9107	9112	9117
9118	9120	9128	9129	9130
9161	9237	9239	9246	9256
9257	9258	9269	9270	9271
9274	9276	9279	9291	9298
9299	9302	9303	9304	9311
9334	9342	9363	9364	9365
9367	9375	9379	9405	9414
9418	9426	9428	9456	9458
9459	9464	9473	9478	9502
9506	9511	9512	9531	9534
9543	9547	9548	9562	9564
9565	9567	9568	9569	9572
9573	9582	9612	9618	9619
9623	9627	9630	9649	9651
9657	9658	9659	9664	9678
9679	9682	9692	9695	9701
9704	9717	9723	9728	9738
9740	9741	9742	9744	9746
9749	9754	9764	9770	9771
9772	9784	9785	9802	9807
9810	9814	9817	9823	9833
9836	9845	9848	9849	9860
9861	9868	9869	9870	9871
9872	9873	9877	9889	9891
9892	9895	9904	9922	9924
9932	9938	9939	9944	9945
9946	9950	9955	9959	9963
9965	9969	10033	10034	10038
10049	10050	10057	10068	10076
10077	10078	10090	10093	10098

Solid State Gamma Spectrometry

845	865	1573	2146	2254
2350	2532	2559	2579	2604
2762	2945	3491	3791	3985
4005	4204	4280	5421	5583
5587	5766	5788	5875	5936
5975	5977	5981	6000	6012
6029	6069	6074	6220	6227
6313	6314	6315	6322	6346

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Solid State Gamma Spectrometry (continued)

10099	10100	10101	10104	10110
10114	10119	10125	10156	10157
10160	10168	10177	10179	10184
10188	10197	10201	10207	10214
10228	10229	10230	10234	10249
10255	10257	10263	10272	10279
10280	10282	10295	10301	10302
10321	10323	10328	10331	10332
10344	10350	10360	10375	10379
10381	10383	10385	10386	10388
10391	10393	10394	10397	10402
10418	10422	10423	10433	

Beta and Alpha Spectrometry

140	146	252	255	259
260	261	262	267	269
270	271	272	279	322
326	347	349	411	416
421	424	431	449	451
455	468	470	530	692
811	828	838	1076	1101
1123	1124	1125	1127	1145
1155	1158	1159	1160	1162
1169	1180	1183	1187	1190
1191	1197	1231	1237	1263
1357	1401	1404	1416	1424
1431	1437	1455	1486	1494
1618	1885	2052	2157	2497
2518	2523	3091	3093	3464
3760	3993	4001	4227	4248
4262	4289	5343	5344	5345
5347	5444	5543	6378	6751
6930	6961	7180	7903	7919
8363	8815	8854	9133	9250
10427				

Coincidence Spectrometry

45	46	49	105	110
125	140	155	166	208
312	393	428	432	594
621	653	682	822	842
845	849	850	862	1012
1059	1071	1076	1079	1098
1099	1115	1194	1326	1340
1466	1500	1532	1578	1612
1616	1623	1735	1801	1814
1859	1860	1886	1914	1958
1965	1967	2500	2516	2529
2544	2546	2610	2612	2644
2772	2796	2971	2979	2987
3467	3473	3491	3720	3721
3738	3778	3970	3978	4001
4204	4386	5330	5343	5385
5399	5417	5591	5621	5782
5931	5975	6029	6053	6072

Coincidence Spectrometry (continued)

6083	6297	6369	6580	6585
6689	6706	6724	6742	6752
6843	6958	6959	7017	7043
7044	7045	7046	7371	7405
7406	7871	7941	7946	7949
7964	7982	8021	8037	8062
8082	8145	8148	8328	8361
8801	8834	8837	8840	8842
8916	8932	8971	9058	9380
9439	9443	9561	9565	9573
9591	9670	9684	9718	9797
9808	9845	9959	9982	9987
9989	9994	10001	10088	10090
10181	10205	10216	10252	10315
10316	10347	10385		

Non-discriminatory Counting (α , β , γ) but includes Half Life and Absorber Measurements, Autoradiography, Emulsions

6	7	8	10	11
12	13	22	23	24
26	28	30	31	32
35	37	47	51	52
53	54	61	62	63
64	65	66	67	68
69	73	75	79	83
84	85	87	93	96
97	98	100	102	103
105	108	109	114	115
118	119	120	121	122
123	124	126	133	134
135	138	139	141	142
143	144	147	151	154
158	161	163	166	167
171	174	176	178	180
181	186	187	188	189
194	196	198	200	209
210	211	213	214	216
217	219	221	222	223
225	226	227	228	229
230	231	232	233	234
235	236	243	245	249
250	256	266	274	275
287	301	327	333	346
354	358	360	361	362
363	366	378	379	382
384	385	396	397	398
400	402	408	413	417
429	436	443	465	467
474	477	478	481	483
485	490	491	492	493
499	501	509	512	522
524	537	538	553	563
571	578	580	589	591
595	602	610	612	622
623	629	631	651	652

ACTIVATION ANALYSIS—TECHNIQUE USED

Non-discriminatory Counting (α , β , γ)
(continued)

653	654	669	670	674
675	676	677	688	692
699	705	723	730	736
739	744	755	757	760
774	775	776	778	779
783	792	853	858	864
869	871	881	883	909
910	911	914	916	921
922	923	928	929	937
939	941	949	952	963
965	967	970	973	979
985	1013	1015	1016	1018
1023	1028	1030	1057	1061
1062	1078	1080	1081	1082
1083	1085	1086	1087	1088
1096	1104	1107	1108	1109
1111	1113	1121	1123	1131
1133	1135	1143	1146	1147
1219	1252	1257	1259	1260
1262	1266	1267	1271	1274
1275	1278	1285	1287	1292
1293	1295	1298	1307	1329
1351	1356	1373	1380	1385
1389	1391	1392	1394	1399
1449	1457	1458	1471	1473
1474	1477	1478	1483	1494
1495	1506	1513	1520	1540
1546	1547	1563	1569	1577
1581	1601	1604	1621	1628
1636	1655	1660	1664	1671
1675	1677	1683	1685	1686
1693	1694	1700	1711	1713
1720	1726	1730	1743	1751
1752	1754	1758	1762	1763
1764	1770	1772	1773	1774
1778	1780	1786	1787	1788
1798	1800	1812	1818	1822
1824	1830	1834	1839	1841
1844	1848	1858	1861	1862
1865	1871	1872	1873	1874
1879	1888	1911	1924	1937
1945	1948	1952	1955	1959
1974	1976	1977	1979	1980
2323	2340	2384	2386	2409
2444	2455	2501	2523	2534
2554	2597	2633	2636	2640
2643	2654	2657	2658	2661
2680	2687	2712	2714	2717
2718	2721	2731	2735	2759
2794	2797	2839	2845	2849
2853	2865	2873	2878	2920
2921	2927	2932	2940	2942
2943	2949	2964	2976	2982
3064	3105	3361	3376	3391
3394	3397	3414	3481	3482
3491	3669	3709	3714	3716
3726	3727	3729	3730	3732

Non-discriminatory Counting (α , β , γ)
(continued)

3736	3746	3755	3767	3783
3962	3965	3976	3977	3981
3987	3995	4207	4267	4278
4315	4319	4388	5295	5320
5350	5353	5356	5359	5370
5381	5395	5397	5398	5403
5405	5406	5408	5422	5429
5439	5472	5501	5515	5517
5547	5581	5719	5731	5752
5769	5848	5851	5923	5927
5932	5933	5938	5965	5984
6004	6017	6031	6044	6063
6073	6086	6208	6304	6344
6353	6386	6387	6389	6390
6405	6412	6436	6459	6572
6685	6686	6696	6736	6752
6839	6921	6960	6989	7035
7081	7087	7101	7133	7138
7139	7162	7166	7172	7200
7258	7312	7321	7369	7370
7380	7411	7412	7866	7869
7874	7894	7931	7932	7940
7975	7992	8006	8022	8035
8056	8081	8094	8163	8165
8167	8180	8187	8193	8292
8371	8373	8805	8822	8829
8838	8863	8869	8873	8874
8878	8884	8899	8901	8903
8929	8983	9007	9027	9081
9168	9206	9215	9253	9255
9341	9357	9366	9407	9424
9432	9446	9447	9461	9528
9530	9551	9578	9616	9639
9646	9650	9652	9693	9718
9728	9762	9766	9769	9801
9829	9830	9831	9840	9864
9872	9877	9879	9923	9970
10051	10061	10067	10079	10080
10105	10122	10142	10145	10171
10213	10222	10227	10231	10232
10253	10258	10260	10304	10432

Prompt Neutron Counting

82	88	169	170	206
207	380	479	554	770
839	904	905	908	978
983	1136	1270	1280	1377
1393	1435	1637	1642	1782
1811	1822	1857	2303	2318
2634	2751	2777	2963	2987
3491	3711	5238	5319	6329
6339	6366	6368	6449	6582
6668	6669	6675	6681	6682
6683	6711	6985	7013	7127
7862	7994	8018	8320	8855
8861	8866	8928	9114	9180

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Prompt Neutron Counting (continued)

9233	9281	9292	9376	9411
9466	9531	9592	9756	9763
10072	10140	10193	10224	10349

Prompt Gamma Counting

184	185	312	383	665
713	1026	1049	1061	1178
1336	1337	1553	1576	1611
1651	1685	1772	1783	1785
1843	1898	1935	1951	1984
1985	2146	2254	2364	2429
2504	2530	2652	2684	2933
3033	3078	3089	3126	3362
3399	3466	3717	3741	3753
3811	3976	3979	4000	5177
5261	5372	5384	5566	5577
5733	5756	5773	5779	5919
6367	6380	6450	6595	6596
6850	6932	7011	7109	7144
7238	7239	7240	7252	7286
7361	7379	7863	7900	7904
7967	8026	8029	8039	8069
8073	8117	8126	8810	8855
8890	8895	9029	9055	9074
9254	9299	9311	9433	9463
9531	9566	9576	9577	9593
9615	9630	9738	9757	9772
9850	9997	10163	10165	10166
10167	10180	10215	10235	10249
10257	10270	10369	10419	

Delayed Neutron Counting

321	514	782	808	819
841	843	868	1025	1070
1302	1857	1906	2751	3491
4277	5262	5323	5551	5735
5765	5953	6393	6713	6714
7163	7943	8035	8174	8325
8832	8835	9485	9531	9683
9767	10349	10351		

Neutron Flux Determination, includes Sample Self Shielding and Flux Perturbations

125	161	179	186	205
209	212	221	260	304
305	306	316	347	377
391	396	399	403	467
510	552	581	609	662
701	735	743	794	828
832	840	843	845	853
854	868	903	1037	1044
1054	1064	1070	1085	1116
1156	1158	1161	1169	1261

Neutron Flux Determination (continued)

1303	1331	1335	1347	1349
1418	1419	1420	1437	1452
1467	1477	1487	1511	1570
1593	1598	1624	1627	1641
1642	1647	1648	1659	1676
1696	1716	1729	1827	1877
1912	1936	1946	1950	1958
1981	1982	2280	2480	2537
2625	2754	2802	2957	3414
3479	3485	3719	3797	4224
5339	5447	5602	5860	5868
5962	6694	6703	7071	7215
7368	7400	7881	8109	8125
8979	9349	9352	9930	9983
10009	10015	10030	10300	

Charged Particle Flux Determination, includes Sample Self Shielding

314	381	1312	3403	3719
4215	7007	7008	7205	7228
10280				

Photonuclear Flux Determination, includes Sample Self Shielding

1014	1178	3719	3791	5379
7016	8893	10280		

Interfering Nuclear Reactions

108	114	131	157	196
201	314	332	346	347
352	361	386	399	432
461	493	516	518	544
552	555	567	578	580
583	588	595	601	614
622	662	676	687	701
703	705	711	727	819
822	828	831	835	842
844	850	856	868	940
977	986	1010	1012	1104
1144	1145	1158	1160	1161
1180	1183	1184	1190	1192
1194	1198	1199	1341	1347
1375	1386	1398	1400	1408
1413	1420	1424	1425	1432
1433	1436	1455	1456	1477
1499	1507	1520	1525	1528
1598	1599	1601	1628	1647
1678	1731	1816	1899	1907
1911	1914	1920	1937	1938
1950	1968	2259	2283	2369
2495	2499	2515	2643	2662
2681	2723	2754	2767	2839
3384	3403	3414	3461	3470
3479	3485	3993	3994	4201

ACTIVATION ANALYSIS—TECHNIQUE USED

Interfering Nuclear Reactions (continued)

5341	5381	5382	5757	5978
6212	6408	6410	6412	6568
6743	6993	7014	7015	7880
7956	8207	8893	9115	9116
9132	9182	9327	9437	9454
9483	9507	9626	9711	9768
10030	10039	10280	10337	10355
10404				

Precision—Accuracy Discussed (continued)

854	863	866	868	952
1017	1027	1040	1064	1076
1080	1082	1084	1085	1090
1094	1160	1162	1167	1169
1171	1172	1175	1178	1180
1181	1182	1183	1184	1187
1191	1193	1196	1199	1255
1328	1347	1362	1414	1415
1439	1442	1453	1466	1484
1505	1518	1528	1537	1541
1598	1599	1627	1628	1641
1643	1647	1729	1731	1782
1815	1865	1872	1873	1885
1889	1912	1913	1950	1967
1969	1979	1981	1983	2157
2455	2499	2503	2525	2534
2537	2539	2541	2542	2549
2652	2686	2754	2755	2777
2836	2849	2873	3079	3091
3099	3368	3381	3382	3418
3482	3488	3514	4196	4203
4276	4278	5341	5353	5366
5368	5372	5381	5385	5390
5713	6742	6841	7062	7070
7071	7072	7291	7305	7915
8811	8821	9049	9161	9164
9177	9340	9416	9625	10030

Other Errors Associated with Irradiation

131	205	212	291	295
297	300	306	322	328
344	346	388	399	476
505	533	614	620	621
622	828	835	836	842
845	850	1087	1261	1442
1528	1598	1647	1675	1676
1729	1731	1889	1910	1956
1972	1981	2681	2849	2948
2990	3101	3403	3479	3488
3781	3791	4206	4213	4224
4325	5339	5602	6066	6321
6708	6830	7010	7015	7025
7071	7128	8250	8330	8893
8976	9182	9624	9708	10280
10395	10396	10425		

Sensitivity Tables

16	111	130	132	141
162	164	201	203	205
218	281	293	294	295
296	297	298	312	337
340	342	343	344	345
347	409	435	446	447
449	566	580	584	603
618	641	643	644	646
659	663	668	671	678
679	685	702	703	708
722	736	748	751	808
810	835	836	837	841
843	846	850	852	859
873	877	890	894	901
918	942	951	972	1039
1040	1049	1051	1065	1088
1097	1144	1148	1152	1154
1162	1166	1172	1190	1193
1196	1304	1312	1315	1327
1347	1352	1353	1355	1361
1375	1404	1407	1416	1417
1421	1425	1439	1464	1465
1503	1522	1524	1536	1540
1620	1642	1656	1666	1669
1673	1676	1691	1731	1755
1808	1838	1854	1873	1874
1875	1881	1885	1889	1903

Counting Errors and Corrections

173	184	185	242	312
322	344	391	399	455
468	585	592	610	614
619	620	621	676	711
739	843	854	1090	1136
1161	1177	1178	1182	1187
1191	1195	1196	1199	1309
1347	1434	1601	1643	1662
1676	1684	1729	1873	1936
1937	1939	2280	2480	2497
2503	2580	2587	2643	2660
2692	3374	3466	3468	3479
3499	3791	4206	4213	4224
5385	6318	7398	8306	8873
8898	9706	10019	10225	10233

Precision—Accuracy Discussed

57	105	108	110	113
114	130	201	205	212
255	263	267	284	286
287	288	289	290	305
312	322	329	337	342
344	399	400	519	549
553	583	609	614	621
622	656	691	739	808
840	841	842	843	853

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Sensitivity Tables (continued)

1911	1935	1940	1941	2452
2516	2567	2568	2663	2690
2697	2799	2924	2937	2939
3059	3071	3082	3091	3366
3395	3483	3487	3508	3756
3772	3793	3803	3978	3980
4294	5317	5372	5379	5384
5389	5993	6340	6731	7114
7117	7155	7156	7895	7925
7962	7966	8048	8255	8366
8391	8819	9055	9220	9221
9444	9467	9468	9484	9985
10017	10018	10029	10117	10199
10254	10257	10298	10313	10356
10412	10413	10414	10433	

Preconcentration, Contamination, Collection and Handling Techniques

47	61	160	179	183
192	260	263	322	331
354	377	385	422	477
493	511	542	543	586
614	708	721	813	829
850	851	932	933	1107
1129	1141	1143	1181	1281
1404	1409	1412	1416	1427
1428	1432	1436	1455	1463
1478	1497	1518	1526	1529
1609	1628	1636	1653	1655
1708	1722	1750	1770	1774
1811	1832	1835	1874	1914
2440	2511	2540	2598	2621
2635	2637	2672	2685	2687
2695	2696	2734	2752	2800
2904	2936	2981	2984	2989
3100	3358	3507	3508	3509
3724	3959	3960	3964	4201
4217	4219	4273	4302	4314
5341	5358	5359	5368	5451
5869	5873	5929	5959	5962
5963	6002	6052	6068	6076
6081	6228	6302	6324	6341
6348	6361	6362	6363	6364
6365	6407	6745	6747	6921
6927	6928	6990	7089	7094
7146	7206	7294	7298	7328
7355	7422	7930	7935	7939
7941	8010	8011	8068	8074
8086	8144	8315	8327	8348
8403	8878	8879	8881	8903
9004	9153	9255	9334	9369
9370	9417	9432	9434	9478
9503	9520	9598	9624	9635
9652	9764	9766	9787	9809
9850	9859	9942	9963	9980
9981	10021	10033	10037	10040

Preconcentration, Contamination, Collection and Handling Techniques (continued)

10085	10128	10172	10185	10220
10250	10302	10334	10385	

Irradiation Techniques, Sample Handling and Facilities, Flux Monitors

125	131	146	181	192
199	205	260	280	281
316	324	341	348	455
500	614	625	631	635
658	670	702	714	719
737	765	819	824	843
846	848	852	898	950
961	979	1029	1048	1054
1055	1083	1097	1116	1136
1145	1148	1248	1256	1258
1269	1277	1407	1418	1437
1439	1440	1517	1523	1528
1539	1545	1627	1642	1658
1659	1661	1663	1676	1695
1696	1698	1701	1702	1706
1712	1717	1722	1729	1845
1853	1861	1864	1868	1875
1883	1889	1912	1916	1920
1922	1923	1940	1945	1956
1957	1965	2104	2147	2335
2410	2501	2524	2527	2536
2542	2548	2549	2564	2576
2598	2659	2672	2787	2849
2924	2936	2937	2939	2948
3333	3376	3403	3461	3507
3509	3745	3751	3790	3791
3796	3797	3808	3956	3981
4251	4260	5318	5425	5443
5451	5594	5610	5694	5711
5733	5748	5868	5873	5943
5952	5963	5983	6059	6319
6325	6331	6349	6351	6382
6398	6402	6404	6406	6447
6459	6597	6598	6699	6703
6718	6726	6727	6728	6730
6743	6747	6830	6945	6979
6984	6987	6988	7015	7020
7032	7033	7173	7177	7199
7259	7290	7335	7358	7395
7916	8036	8040	8093	8203
8248	8272	8273	8278	8279
8281	8283	8284	8304	8313
8408	8811	8817	8821	8839
8841	8876	8886	8888	9016
9046	9061	9062	9078	9091
9094	9101	9162	9163	9167
9210	9298	9302	9303	9327
9331	9416	9427	9471	9529
9587	9590	9595	9624	9628
9631	9663	9681	9697	9743
9751	9759	9796	9805	9826

ACTIVATION ANALYSIS—TECHNIQUE USED

<p>Irradiation Techniques, Sample Handling and Facilities, Flux Monitors (continued)</p> <p>9827 9873 9920 9957 10006 10008 10045 10074 10075 10081 10085 10086 10088 10190 10198 10202 10251 10295 10330 10346 10357 10395 10420 10426 10428 10431</p> <p>Activation Analysis Standards and Standard Reference Materials</p> <p>205 306 314 361 362 363 365 367 371 572 581 587 600 676 687 808 820 841 953 1076 1126 1187 1255 1282 1293 1431 1433 1596 2501 2537 3413 3472 3481 3560 4320 5985 6349 7074 7075 7076 7077 7078 7185 7350 8033 8085 8143 8314 8329 8409 9324 9873 9936 9954 9960</p> <p>Computer Applications and Numerical Methods</p> <p>18 36 58 156 199 201 273 520 527 534 574 590 642 693 707 759 826 845 977 1033 1041 1058 1073 1251 1328 1359 1419 1457 1508 1556 1557 1567 1580 1617 1620 1622 1691 1702 1735 1737 1790 1809 1819 1826 1851 1866 1868 1919 1947 2107 2116 2387 2450 2494 2506 2508 2514 2515 2521 2533 2538 2545 2547 2548 2574 2602 2673 2689 2691 2702 2706 2715 2740 2760 2767 2801 3082 3283 3356 3380 3381 3391 3500 3514 3550 3552 3662 3741 3776 3791 3798 3809 4200 4210 4243 4275 4287 4326 4377 4393 4397 5348 5361 5376 5498 5513 5546 5583 5587 5618 5620 5740 5744 5745 5778 5937 5971 6046 6082 6087 6310 6330 6350 6373 6381 6448 6460 6571 6573 6734 6744 6837 7034 7047 7050 7052 7053 7054 7059 7060 7061 7063 7064 7065 7066 7067 7068 7069 7115 7123 7156 7178 7221 7244 7251</p>	<p style="text-align: center;">7346 7378 7428 7868 7872</p> <p>Computer Applications and Numerical Methods (continued)</p> <p>7918 7922 7980 8016 8117 8129 8153 8157 8166 8318 8360 8368 8369 8370 8408 8417 8860 8875 8883 8972 8974 8996 9015 9022 9054 9059 9069 9070 9094 9125 9127 9193 9194 9195 9197 9242 9252 9312 9348 9358 9422 9431 9457 9544 9570 9594 9622 9676 9680 9798 9815 9854 9855 9856 9888 9894 9934 9957 9986 9397 10003 10013 10042 10091 10133 10143 10183 10187 10236 10261 10296 10300 10324 10344</p> <p>Data Handling Systems</p> <p>590 931 961 1116 1279 1567 1620 1670 1702 1712 1954 2547 2702 2703 2707 2740 2951 2968 3356 3662 3791 4199 4200 5434 6209 6310 6316 6384 6460 6861 7038 7041 7047 7048 7049 7051 7052 7053 7054 7251 7872 8002 8003 8004 8408 9014 9024 9042 9126 9239 9270 9493 9680 9857 9888 9934 9957 10013 10014 10086</p> <p>Electronics in Activation Analysis</p> <p>318 352 389 393 653 682 837 1058 1079 1116 1350 1358 1602 1612 1944 1984 2252 2500 2529 2538 2561 2650 2702 2703 2704 2710 2738 2740 2779 2801 3117 3424 3426 3438 3443 3521 3548 3662 3741 3790 3791 4280 4289 5380 5414 5434 5943 6360 6456 6861 7038 7041 7042 7043 7044 7045 7052 7053 7177 7460 8408 9888 10014 10019</p> <p>Activation Analysis Literature Searching</p> <p>6403 7055 7056 7057</p>
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APPENDIX IV



ACTIVATION ANALYSIS—AUTHORS

Aalberts, J. H. 818	Abdullaev, K. 10258				
Aalto, H. 9692	Abdurakhmanova, S. R. 6705				
Aaron, D. 377	Abdusalyamov, N. 7237				
Abakumov, D. N. 10415	Abe, M. 2889				
Abarov, U. 4262	Abe, S. 1501 2758 3346 3799 4189 5430 6693 7292				
Abbosov, O. 5705 5707 8090 8121 8122 8186 9910 10028 10271	Abe, T. 838				
Abdel-Aziz, A. 2870	Abel, E. 9837				
Abdel-Rassoul, A. A. 1856 1858 2654 2870 5368 9455 9726 9859 10334 10381	Abeles, T. P. 2575				
Abdel-Wahab, M. F. 1858	Abildaev, A. K. 8371				
Abdeyazdan, R. 6586	Abrams, I. A. 5870 8048 9910 9911 10028 10271				
Abdulla, A. A. 9682	Abrao, A. 14 1652 2812 2904				
Abdullaev, A. A. 924 5858 7410 8127 8160 8274 8380 8381 8978 9642 9798 9928	Abrarov, O. A. 8114				
	Abu-Samra, A. 351 2495 6934 10344				
	Accardo, C. A. 21				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Ackermann, R. J. 9085</p> <p>Adachi, A. 8388</p> <p>Adachi, T. 960 1152 1315</p> <p>Adam, L. 9975 10376</p> <p>Adamek, A. 5956 5984 9339 9416 9587 9841 10202</p> <p>Adami, F. 9091</p> <p>Adamiker, D. 3360</p> <p>Adams, F. 581 865 886 950 1064 1066 1500 1735 1841 3411 5381 5385 6218 6383 6696 7178 7207 7254 7317 7360 7402 7876 7930 8199 8212 8836 8913 9126 9128 9657 10042 10203 10372</p> <p>Adamski, L. 923</p> <p>Adloff, J. P. 2632</p> <p>Aebersold, P. C. 6060</p> <p>Aerojet-General. 644</p> <p>Agelao, G. 4243 7128</p>	<p>Ahmed, M. R. 9682</p> <p>Aidarkin, B. C. 978</p> <p>Aifnbinder, N. G. 8295</p> <p>Airoldi, G. 2</p> <p>Aitken, M. J. 1132 1301 1306 7873</p> <p>Akabirov, B. B. 9880</p> <p>Akaboshi, M. 4207 5472 7282 8001 8929</p> <p>Akaiwa, H. 7888 9218 10158</p> <p>Akalaev, G. G. 9573 9623</p> <p>Akbaev, R. A. 9880</p> <p>Akbarov, U. 3760 8363 9338 9797</p> <p>Akers, L. K. 422</p> <p>Akhmadiyeva, A. K. 8351</p> <p>Akiyama, N. 7019 9113</p> <p>Akolzina, L. D. 2474 9838</p>
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ACTIVATION ANALYSIS — AUTHORS

<p>Aktiebolaget Atomenergi. 10235</p> <p>Akutsu, H. 3995</p> <p>Al Kital, R. A. 7416</p> <p>Al Shahrstani, H. 7031 9359</p> <p>Al-Assaly, F. 9171</p> <p>Al-Hashimi, S. A. M. 8250</p> <p>Al-Shahiry, G. Y. 9682</p> <p>Alban, E. K. 9261</p> <p>Albert, D. 2335</p> <p>Albert, M. 897</p> <p>Albert, P. 3 4 5 6 7 8 150 167 358 502 688 703 704 767 781 812 814 815 821 851 879 1375 1378 1410 1471 1720 2381 2550 2628 2629 2768 2936 3721 3722 3723 4211 5921 5938 5954 6410 6412 6568 6578 6586 6590 6591 6821 7003 7009 7012 7018 7150 7230 7231 7232 7284 8859 9203 9238 9419 9421 9423 9586 10407</p> <p>Albisu, F. 7336 7339</p>	<p>Albu Yaron, A. 10229 10230</p> <p>Aldcroft, D. 10139</p> <p>Aleksandrov, C. A. 3373</p> <p>Aleksandrova, G. I. 6053 6072</p> <p>Alexander, J. L. 2574</p> <p>Alexander, T. 2533</p> <p>Alexander, W. D. 6015 6047</p> <p>Alexandrov, S. 6355</p> <p>Alexis, M. R. 10022</p> <p>Alfes, H. 9265 9293 10123</p> <p>Algots, J. M. 7400</p> <p>Alian, A. 1901 1960 2447 2951 4203 4319 5369 5728 5729 6215 6721 6981</p> <p>Aliev, A. I. 10040</p> <p>Alimarin, I. P. 785 1068 1763 2641 2721 3367 3732 3737 4310 5786</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Alimarin, I. P. (continued)						Alstad, J.				
7423	8307	9110	9111	9673		1205				
9839	10069									
Alkhazov, D. G.						Althoff, W.				
5435						10124				
Allabergenov, B. R.						Altmann, H.				
8117	9338	9797				1370	1703	1767	1895	3358
						3360	6303	7877	8076	
Allam, B.						Alvi, Z.M.				
5729						10360				
Allam, D.						Aly, H. F.				
6215						9455				
Allen, F. G.						Amano, H.				
5402						12	193	805	9283	10108
						10109	10284			
Allen, H. E.						Ambrosino, G.				
7977						13				
Allen, L. S.						Ames Laboratory.				
2684						2770	3810			
Allen, R. O.						Amiel, S.				
5948	9659	9858	10093	10184		88	770	772	782	807
						808	841	842	843	868
Allie, W.						1023	1070	1302	1645	1782
6382	7073	7112	9963			1811	1857	1906	2634	2751
						3711	5262	6449	6450	6668
Allina, Z.						6669	6983	7032	7163	7216
1069	1373	1636	5864	8901		7398	8035	8203	8333	9133
						10225	10226	10227	10228	10229
						10230	10433			
Almassy, M. Y.						Amin Singgih, P.				
8416						6924				
Alpatev, Y. S.						Amiruddin, A.				
4196						548	1169	9730		
Alperovitch, E. A.						Amiryan, S. O.				
10	11					10320				

ACTIVATION ANALYSIS—AUTHORS

Amsel, G.					Anderson, M. R.				
1915	7200	8866	9756	9763		9659	10093		
Analytical Chemistry.					Anderson, R. E.				
480						343	344		
Anastase, S.					Anderson, R. H.				
10408						503			
Anbar, M.					Anderson, W. A.				
1020	1071					4289			
Anchevskii, E. V.					Andre, M.				
3379	7878	8976				8917			
Anders, E.					Andreev, A. V.				
15	1122	7869	9474	9916		5321	5781	10317	
10092	10134								
Anders, O. U.					Andrews, A. E.				
16	17	18	131	549		3788			
635	1055	1072	1248	1303	Andrews, D. G.				
1691	3351	6979	7251	8025		7064			
Andersen, G. H.					Andryushchenko, V. I.				
507	1537	2121	2126	2348		9593			
3077	5979	6750	7400						
Anderson, C. F. L.					Angel, C. R.				
6970						7976			
Anderson, D. H.					Angus, N. S.				
9629						9846			
Anderson, D. M. W.					Anishchenko, Y. M.				
3336	5342					8127			
Anderson, E. B.					Anong Nilubol, M. L.				
2422						7099	10106		
Anderson, G. H.					Anoshin, G. N.				
3073						4242	10169		
Anderson, J.					Ansell, B. M.				
155	6014	6827	10176	10335		1311			

ACTIVATION ANALYSIS – BIBLIOGRAPHY

<p>Antkiw, S. 1680</p> <p>Antropov, G. P. 9439</p> <p>Antunez, H. M. 1059</p> <p>Aoki, F. 20 797 826 1565 1671 1880 3758 7980</p> <p>Aoki, T. 5777</p> <p>Apostolov, D. 9784 10155</p> <p>Appel, J. 9897 10102</p> <p>Araki, H. 379 602 1153 1208 5928</p> <p>Arcipiani, L. 8004</p> <p>Arghittu, C. 6452</p> <p>Argonne National Laboratory. 2590 3328 8072 10188</p> <p>Argrett, L. 7908</p> <p>Arino, H. 2499 2690</p> <p>Aripov, G. 3362 5581 8117 8361</p>	<p>Arman, A. 6975 9026</p> <p>Armbruster, R. 4209</p> <p>Armijo, J. S. 5408</p> <p>Armistead, F. C. 4252</p> <p>Armson, F. J. 9545</p> <p>Armstrong, A. A. 1073 1472 1583 2493 6406 7382 9151</p> <p>Armstrong, F. E. 6317</p> <p>Armstrong, R. L. 2731 8912</p> <p>Arneil, G. C. 5755</p> <p>Arnfelt, A. L. 5433</p> <p>Aron, S. J. 10370</p> <p>Aronow, L. 7089</p> <p>Arroyo A, A. 6992 8962</p> <p>Arsenault, L. W. 8889</p>
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ACTIVATION ANALYSIS — AUTHORS

<p>Artsikhovskiy, A. V. 7083</p> <p>Artyukhin, P. I. 2640 3730 3731 5336 5500 5619 5703 5787 8358 9356 10415</p> <p>Arushanyants, B. M. 8361</p> <p>Arwill, T. 6055</p> <p>Asai, A. 6856 7330 9035</p> <p>Asai, T. 5386 7316 8403</p> <p>Asamov, K. A. 9642</p> <p>Asaro, F. 5788 9161</p> <p>Asay, K. H. 10120</p> <p>Asayama, T. 1531 5328 5867</p> <p>Ascoli, A. 1074</p> <p>Ashe, J. B. 314 2254 7030</p> <p>Ashirov, M. G. 3369 3370 3371</p> <p>Ashworth, M. J. 2575</p>	<p>Aspin, N. 550</p> <p>Aspinall, A. 5742</p> <p>Asprer, G. A. 10288</p> <p>Atalla, L. T. 1650 5358 7407 8209 8211 8255 8423 8424</p> <p>Atanov, I. G. 10411</p> <p>Atchison, G. J. 22 23</p> <p>Aten, A. H. W. 24 25 1249 7197 7205</p> <p>Athavale, V. T. 1427 3560 6960</p> <p>Athow, K. 9615</p> <p>Atkins, D. H. F. 26 27</p> <p>Atkinson, G. D. 10162 10350</p> <p>Atlavin, A. B. 9674</p> <p>Atomes. 551</p> <p>Atomic Energy for Peace, Bangkok. 5972 6670</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Atomics.					Azimov, P. T.					
	299	376	389	404		9515				
Auboin, G.					Azimov, S. A.					
	5593					5621	9985	9986	9987	9988
						9989	9990	9991	9992	
Aubouin, G.					Azizov, N. A.					
	1045	1046	1138	1165	1819					
	2557	7151				9513	9516			
Aubry, J.					Azuma, T.					
	28					5386	6854	7315	7316	8402
						8403	8419	9033	9398	9504
Auchapt, J. M.					Azzam, R.					
	2409					9171				
Aude, G.					Baba, H.					
	7313					379	602	1153	1208	7297
Auer-Welsbach, H.					Babaev, A.					
	3397	4301				1549	3386	5705	5707	7171
						7229	8121	8122	8376	9492
Aufroix, L.						9515	9636	10080		
	8957									
Augustson, R. H.					Babaev, O.					
	6713	6714	9613	10349	10378	3766				
Aumann, D. C.					Babakhodzhaev, S.					
	196	1528	1532	1814	2543	8820	8932	9636		
	3986	6370	9617							
Australian Atomic Energy Commission.					Babala, D.					
	3066	3067				1877				
Auxier, J. A.					Babb, A. L.					
	993					2123	4283	5746	6688	6938
Averyanova, V. P.					Babikova, Y. F.					
	9799					2764	8863			
Axmann, H.					Bacharach, J. L.					
	3093					6244				

ACTIVATION ANALYSIS—AUTHORS

Bachman, G. S. 275	Baker, C. W. 7948
Bachmann, K. 3105 8991	Baker, D. E. 8850
Badanoiu, M. 803	Baker, P. S. 7057
Baddenhausen, H. 10101	Bakes, J. M. 1677 1961 2526 3948 7219 9104
Baeckmann, A. V. 9809	Bakhterev, V. V. 9216
Baedecker, P. A. 1566 3467 6970 7385 8237 8984 9622 9833 9856	Balacescu, A. 10101
Bagdavadze, N. V. 3757	Balakhovskii, O. A. 10403
Baggerly, L. L. 596	Balbakov, D. 9700
Bailey, L. E. 29 423	Balcus, D. M. 8010
Bailey, M. R. 2779	Balcus, J. F. 2695 3959 6931 8827
Bailey, R. F. 867 1675	Baldwin, W. F. 1843
Baird, J. N. 1048	Ball, T. K. 2509 2669
Baishya, N. K. 8983 9645 9667	Ballaux, B. 7227
Baker, C. A. 850 1475 3488 6698 6742 9670	Ballaux, C. 4254 5730 6446 7934 10375

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Balsenc, L.						Barbe, R.				
3996	6335	7956	8063	8300		5951				
9696										
Bancie-Grillot, M.						Barber, W. H.				
30	31	32				4273	5420	6976		
Bandel, D.						Bargainer, J. D.				
1050						1843				
Bando, S.						Barit, I. Y.				
419	2683	3341	6199	6859		5321	5781	5782	10315	10317
7223	8181	9038	9160	9168		Barker, W.				
9219	9263	9287	9904	9939		2124				
Bankovskii, Y. A.						Barltrop, D.				
9353						10112				
Banks, T. E.						Barnes, B. K.				
33	34					6456	7045			
Banta, H. E.						Baro, G. B.				
1294						802	1734	2926	6993	
Banville, B.						Barrall, E. M.				
1924						860				
Bara, H.						Barrandon, J. N.				
7870						6591	6595	7009	7012	7230
Barak, A. J.						7903	9114	9586	10223	10407
542						Barreira, F.				
Baranov, V. A.						37				
9411						Barry, R. C.				
Baranov, V. I.						2664				
904	1062	1393				Bartel, A. J.				
Barbakadze, L. V.						9868	9869			
3757						Barthe, P.				
Barbaud, J.						6353				
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ACTIVATION ANALYSIS – AUTHORS

<p>Bartholome, P. 724</p> <p>Barthomeuf, D. 853</p> <p>Barwinski, A. 3335 6325 6844</p> <p>Basdekas, D. L. 8180</p> <p>Bashat, H. 6721</p> <p>Basile, R. 38</p> <p>Basin, Y. N. 1430</p> <p>Basmajian, J. A. 3977</p> <p>Bass, R. 2615</p> <p>Bastamov, V. N. 8373</p> <p>Bastian, J. 5422</p> <p>Bastian, R. 4386</p> <p>Bastian, R. P. 117</p> <p>Batchelor, J. S. P. 3481</p> <p>Bate, G. L. 39 40 41 42 1076</p>	<p>Bate, L. C. 43 291 292 625 640 641 654 763 946 973 981 1031 1060 1075 1077 1268 1350 1361 1635 1709 1713 1725 1727 1746 1796 2157 2699 2881 2931 4232 5711 8089 8169 9624 10396</p> <p>Batelle Memorial Institute. 1904</p> <p>Battelle Northwest. 7208 10204 10205 10206</p> <p>Battiston, U. 10194</p> <p>Battistone, G. C. 2584 2585 2637 7999 9443</p> <p>Battye, C. K. 6014 6827 9761 10176 10335</p> <p>Baudin, G. 2927</p> <p>Bauer, J. 10078</p> <p>Bauer, R. 9170 9427</p> <p>Baumgartner, F. 44 1331 1529 1689 1732</p> <p>Baus, R. A. 729 1123</p> <p>Bayle, P. 5444</p> <p>Beamer, W. H. 18 22 23 635</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|---|
| <p>Beamish, F. E.
4307 4312 6392 6719</p> | <p>Beeler, R.
7956</p> |
| <p>Beard, D. B.
45 46 49</p> | <p>Beer, J. S.
7255</p> |
| <p>Beard, H. R.
6077</p> | <p>Beeson, M. H.
5936</p> |
| <p>Beardsley, D. A.
1930</p> | <p>Begemann, F.
9099</p> |
| <p>Beasley, T. M.
2998</p> | <p>Behne, D.
7391 9668 9875</p> |
| <p>Beaudet, C.
6216</p> | <p>Behrens, G. B.
7939</p> |
| <p>Beavin, R.
6753</p> | <p>Bekmukhamedova, Z. U.
8343</p> |
| <p>Beck, D. J.
418</p> | <p>Belenko, R. D.
10150 10151</p> |
| <p>Beck, J. S.
1078</p> | <p>Beliard, L.
5765</p> |
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9054</p> | <p>Belkas, E. P.
1964 4272 7364</p> |
| <p>Becker, D. A.
2537 4224 5985 8021 9477</p> | <p>Bell, P. R.
2684</p> |
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9770 9771</p> | <p>Bellanca, S. C.
2792 2959 6929</p> |
| <p>Becker, W.
7051</p> | <p>Beller, L. S.
1079</p> |
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7039 9364 9611 9963 10295</p> | <p>Bellobono, I. R.
10377</p> |
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9440</p> |

ACTIVATION ANALYSIS—AUTHORS

Belov, V. I. 2965 9233	Berenshtein, L. E. 9345
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Belyakov, M. A. 855 3375 7862 7875 7878 8976	Beress, M. 612 5501 7101
Benada, J. 8998 9005 9464 9627 10078 10214 10423	Bereznai, T. 10175 10189 10213 10401
Bendel, W. L. 9690	Berg, A. 9950
Benjamin, R. W. 2686 3070	Bergamin, U. 1760
Bennett, H. L. 9545	Bergan, R. A. 996
Bennett, J. H. 6208	Bergemann, F. 9811
Bennyhoff, J. A. 6391	Berger, R. 4001
Benson, A. A. 47 975 1462 1870 3716	Berglund, N. 8313
Benson, C. S. 6364	Bergman, B. 1332 1800
Benson, P. A. 692 1478 1584 1655 1786 1844	Bergner, P. E. E. 2422
Bentley, W. C. 492	Bergstrom, J. 35 48
Beranger, G. 7200	Beridze, G. I. 9449
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|--|
| <p>Berkutova, I. D.
2717</p> <p>Berlandi, F. J.
1129 2511 4410 6076 9520</p> <p>Bernadskii, K. G.
8975</p> <p>Berne, E.
9633</p> <p>Bernett, M. K.
8890</p> <p>Bernhard, F.
744</p> <p>Bernier, M.
2797</p> <p>Berrard, M.
9325</p> <p>Berry, D. W.
4200</p> <p>Berry, J. E.
1843</p> <p>Berry, L.
7343</p> <p>Berry, P. F.
7030 7202</p> <p>Bertet, M.
2797</p> <p>Bertolini, G.
7245</p> <p>Berton, M.
1444</p> | <p>Berzin, A. K.
1646 2965 3462 8813 8817
9233 9451</p> <p>Berzina, I. G.
5965</p> <p>Bespalov, D. F.
780 3462</p> <p>Beswick, C. K.
10049 10301</p> <p>Bethard, W. F.
648 944 1384 1708 6010
6067 7189 8013</p> <p>Bethge, P. O.
1239</p> <p>Bettens, B.
1968</p> <p>Betteridge, D.
2455</p> <p>Bewers, J. M.
7238 7239 9628 10296</p> <p>Beydon, J.
51 564</p> <p>Beyer, L. E.
8850</p> <p>Beyer, R. L.
8235</p> <p>Beyer, W. W.
52 53</p> <p>Beyermann, K.
1577</p> |
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ACTIVATION ANALYSIS – AUTHORS

<p>Beyssier, B. 6356</p>	<p>Bilefield, L. I. 522 1080 1106</p>
<p>Bhagat, S. K. 9276</p>	<p>Bilidin, L. P. 784</p>
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<p>Bigliocca, C. 579 6982 9950</p>	<p>Bisby, H. 908 1081 1082 1083</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|---|
| <p>Bjorlykke, K.
9530</p> <p>Bjornberg, B.
9633</p> <p>Black, A.
7947 10220</p> <p>Blackburn, J. A.
9397</p> <p>Blackburn, R.
864 1084</p> <p>Blada, J.
9883</p> <p>Blake, K. R.
2254 2410 2505 2686 3070
3794 3976 8810 10046</p> <p>Blanc, D.
1543 5444</p> <p>Blanchard, R. L.
54 55 56</p> <p>Blankov, E. B.
6571 9177</p> <p>Blankova, T. N.
6571 9225 9509</p> <p>Blanzat, A.
57</p> <p>Blatt, S. L.
10371</p> <p>Bleich, H. P.
7281</p> | <p>Bletskan, N. I.
8412</p> <p>Blinkov, D. I.
1546 3361 7132 9996</p> <p>Blokhin, V. I.
7213 9982</p> <p>Blomstrand, R.
1242 1342 1747</p> <p>Blondel, A.
1503</p> <p>Blotcky, A. J.
1041 7215 8889</p> <p>Blouri, J.
3723 6410 6412 6568</p> <p>Bluysen, H.
6372</p> <p>Blyumentsev, A. M.
5577</p> <p>Boback, M. W.
2122 8326</p> <p>Bobleter, O.
1527</p> <p>Bobrov-Egorov, N. N.
5317</p> <p>Bobrova, A. N.
8152</p> <p>Bocharova, N. N.
8158</p> <p>Bochenin, V. I.
9821</p> |
|--|---|

ACTIVATION ANALYSIS – AUTHORS

Bochirol, L. 1663					Bogdanova, I. P. 5435				
Bochkarev, B. N. 9509					Bohannon, J. R. 7898 9677				
Bochvar, A. A. 8863					Bohn, G. 8826 9286				
Bock, R. 8078					Boisde, G. 2726				
Bock-Werthmann, W. 627 711 857 1179 2513 2775 5982 8867					Boisot, P. 7200				
Bockl, R. 9661					Boissier, M. 7015 9574				
Boddy, K. 6015 6047 8250 8828 9018 9368 9476					Boivin, M. 5520				
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Body, Z. 8391					Bone, S. J. 9296 9683				
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Boganes, J. 3350 5931 6572 9121 9441					Bonsignori, C. 9024				
Bogard, A. D. 729 1123					Bontemps, A. 9307				
Bogatyrev, V. K. 7213 9281					Booth, D. 9921				
Bogdan, J. F. 2493 6406					Borak, J. 6825				
					Borchardt, G. A. 6442 9017				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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|--|--|
| <p>Boreisha, E. G.
4196 7411</p> <p>Borella, A.
1919 3082</p> <p>Boreni, R. J.
6332 7055 8414 10054</p> <p>Borg, D. C.
59 862 2730 2946</p> <p>Borgholthaus, D.
36</p> <p>Borisov, G. I.
10068</p> <p>Borke, M. L.
6717</p> <p>Born, G. I.
1329</p> <p>Born, H. J.
60 61 196 1252 1330
1528 1532 1730 1814 2543
3986 3992 5439 6370 7194
7206 9617 9746 9850</p> <p>Born, W.
9099</p> <p>Borner, W.
2813</p> <p>Bornmann, G.
9293</p> <p>Borot, M.
812</p> | <p>Bosholm, J.
2621</p> <p>Bostrom, K.
7975</p> <p>Botor, J.
9268</p> <p>Bottino, M. L.
913</p> <p>Bottura, G.
5792</p> <p>Botzvadze, E. S.
7420</p> <p>Bouchev, G. D.
6319 8022 10162</p> <p>Boudin, A.
6213 8083 10083</p> <p>Boughner, R. T.
5261</p> <p>Bouglogne, A. R.
10238</p> <p>Bouma, A. H.
9330</p> <p>Bounden, J. E.
1701 2527</p> <p>Bouten, F.
581</p> <p>Bouten, P.
552 1085</p> <p>Bouteu, P.
893</p> |
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ACTIVATION ANALYSIS – AUTHORS

Bouville, A.						Bradshaw, W. G.				
1543						45	46	49	74	
Bouzyk, J.						Brafman, M.				
923						9268				
Bowden, P.						Braier, H. A.				
9846						3011	3752			
Bowen, H. J. M.						Bramadat, K.				
62	63	64	65	66		555				
67	68	284	553	723						
1086	1087	1126	1305	1436		Bramblett, R. L.				
1807	2501	3501	3508	3509		9531				
3949	4212	4320	5990	7095						
8409	9664	9878	9954	10138		Bramlitt, E. T.				
10308	10312					1804	3778			
Bowen, V. T.						Brancato, G.				
6455						2964				
Bowers, R. C.						Brandone, A.				
7041	9014					7002	7914	9704		
Bowie, S. H. U.						Brandstadter, O.				
908						9427				
Boyadjov, I.						Brar, S. S.				
2431						938	2552	6922	7988	7989
Boyd, G. E.						8017	8390	8872	9051	
70	71	72	258			Bratter, P.				
Boyle, I. T.						2775	4299	4300	8393	9679
8250						Brauer, F. P.				
Bracco, D. J.						7049				
6049						Braun, H.				
Bradley, J. E. S.						898				
73						Braun, R.				
Bradley, O.						7281				
73										

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|-------------------------------------|---|
| <p>Braun, T.
6403 7056</p> | <p>Briers, G. W.
10067</p> |
| <p>Braunstein, L.
3988 6947</p> | <p>Bril, J.
2668</p> |
| <p>Breccia, A.
3740 5448</p> | <p>Brill, A. B.
5756</p> |
| <p>Brednev, I. I.
9510</p> | <p>Briscoe, G. B.
1930 8986</p> |
| <p>Breen, W. M.
7346</p> | <p>Briscoe, W. L.
1604 5752 5769 6589 6752</p> |
| <p>Breger, A. K.
75</p> | <p>British Medical Journal.
5946 7319</p> |
| <p>Brem, A. A.
10148</p> | <p>Brits, R. J. N.
8201 10341</p> |
| <p>Breستي, M.
4208</p> | <p>Broadhead, K. G.
500 2498 4214 9436</p> |
| <p>Breslav, V. I.
9911</p> | <p>Broda, E.
394 440 694 749 1465
6400 7891</p> |
| <p>Brewer, F. M.
360</p> | <p>Brodzinski, R. L.
8834 9095 9817 10234 10353</p> |
| <p>Brewer, H. W.
9881</p> | <p>Bronner, W. L.
77</p> |
| <p>Brewer, P. G.
9814</p> | <p>Brooke, C.
1447 1466</p> |
| <p>Breynat, G.
5978</p> | <p>Brooke, N. M.
7948 10236</p> |
| <p>Briden, D. W.
131 1248</p> | <p>Brookes, A.
9047</p> |
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543</p> | |

ACTIVATION ANALYSIS—AUTHORS

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Brooks, C. K. 6701 9003						Brues, A. M. 90 725				
Brooksbank, W. A. 78 79 80 81 82 83 288 292 1088 1351						Brune, D. 328 987 1089 1134 1400 1412 1766 1797 1893 1910 2604 2635 2871 3789 3808 4318 5424 5860 6694 6697 6699 6746 6747 6831 6945 7203 7928 8313 8841 9335 9433 9590				
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Brown, H. 84 85 86 186 187 817						Bruner, H. D. 335 1296				
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Brownlee, J. L. 89 2530 5338 6084 6085 6985						Brydges, T. 2762				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Buchanan, J. D.	702	935	1090	2793	2959	Burdick, D.	9066				
	7984										
Buck, T. M.	5402					Burge, K. M.	9552				
Buczek, A.	6844					Burke, K. C.	908				
Buczko, M.	8391	10200				Burley, H. A.	1740				
Budzynski, A. Z.	7255					Burnett, W. T.	450	2522			
Buglio, B.	586					Burnham, C. D.	6922	8390			
Bugorkov, S. S.	5318					Burns, F. C.	1107	1266	1453	1739	3781
							5339	8839	9786		
Bujdoso, E.	633	2806	2807	3792	6202	Burns, R. S.	3283				
	6203	6403	7056								
Bulanov, L. A.	1218					Burrill, E. A.	91	92	556	557	917
							1808				
Bulashevich, Y. P.	8007					Burrows, B. A.	2972	6302	7020	8000	8038
							9342	9598			
Bulletin d'Informations A. T. E. N.	7415					Burrus, W. R.	7054				
Bunce, L. J.	3078					Busch, G.	1091				
Bunus, F. T.	9720					Bushkov, A. P.	4276	8975			
Buot, F.	4215					Bussell, H.	1865				

ACTIVATION ANALYSIS—AUTHORS

Bussiere, P.	558	853	4261	6690	Cabeza, L.	9599				
Butler, J. P.	1377				Caddock, B. D.	2651				
Butler, J. R.	1812	7867			Cadwell, J. J.	97				
Butler, J. W.	7011	8890			Cahier d'Information du Bureau Eurisotop.	4394				
Butterfield, D.	10095				Caldwell, R. J.	9892				
Buzzelli, G.	1653	9591			Caldwell, R. L.	98	413	580	1843	2684
Buzzi, S.	6968	9437				7033	8876	9259	10419	
Buzzigoli, G.	9640				Cali, J. P.	231	255	322	1092	1253
Bye, G. C.	10139					2541	3474	6226	7074	7075
Bygrave, W.	3496				Calkins, G. D.	99				
Byrne, A. R.	7927	9333	9660	9948	9964	Calvin, M.	160			
Byrne, J. T.	2549				Camera, V.	8292				
Cabane, G.	2555	7322			Cameron, A. E.	100				
Cabanel, G.	9325				Cameron, J. F.	1922				
Cabell, M. J.	93	94	95	96	7886	Campa, J. P.	2954			
						Campanile, V. A.	733			

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|---|---|
| <p>Campbell, E. Y.
10348</p> <p>Campbell, F. T.
10115</p> <p>Campbell, L.
862</p> <p>Campbell, M. J.
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5744</p> <p>Campero, A.
7879 8135</p> <p>Canadian Chemical Processing.
1626 2710 7198</p> <p>Capannesi, G.
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2560 4244 6925 6996 9404</p> <p>Caramello Gandolfo, M. T.
9165</p> <p>Cardarelli, J. A.
2972 6302 7020 8000 8038
9342 9598</p> <p>Carey, W. E.
9261 9791 9812</p> <p>Cargol, L. H.
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8807</p> <p>Carnuth, W.
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6459 7035 8094 8899 9616
10432</p> <p>Carpenter, R.
10066 10237</p> <p>Carpenter, R. D.
9612 10116</p> <p>Carr, M. H.
1094 1293</p> <p>Carr, R. A.
9678</p> <p>Carr, T. E. F.
6002 10112</p> <p>Carr-Brion, K. G.
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|---|---|

ACTIVATION ANALYSIS – AUTHORS

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6972 8869 9118 9270	101
Case, L. F.	Cerato, C. C.
1141 2125 2535 3710 10283	3027
Cassatt, W. A.	Cercasov, V.
1757 2685 3962	10408
Cassidy, W. A.	Cerei, M.
1460	1416 5295
Castre, C.	Cerrai, E.
6356	762
Castro, C. E.	Cesarano, C.
933	2795
Catoggio, J. A.	Chae, S. C.
9264	4296
Cattaneo, F.	Chaika, M.
1095	5759
Cauchois, Y.	Chakraborty, P. P.
5520	6331
Cawse, P. A.	Challansonnet, J.
68 284 553 1086 1087	1262
3509	
Caylor, J. D.	Chalmers, J. G.
9592	309
Cazianis, C. T.	Chamberlain, M. J.
5995	7372 7426 8188 9518 9739
Ceard, P.	Chambers, M. E.
6441	361
Ceccaldi, P. F.	Chamnirokasarnt, D.
8957	6671 10106
	Champion, W. R.
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

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| <p>Champlin, J. B. F.
8994</p> <p>Chan, L. H.
7340 7416 9864</p> <p>Chanda, R. N.
10351</p> <p>Chandler, E. M.
10318</p> <p>Chandrasekaran, V. R.
2977</p> <p>Chang, W. P.
3342</p> <p>Chang, Y.
786</p> <p>Channell, J. K.
6927 8023</p> <p>Chanyshv, A. I.
3088 3089 3369 3370 3371
3372 8367 9700</p> <p>Chanysheva, T. I.
3088 3089 8367</p> <p>Chao, T. T.
10141</p> <p>Chapyzhnikov, B. A.
75 1238 3729 8971 9380</p> <p>Charoonratana, C.
7107</p> <p>Charyulu, V.
2107</p> | <p>Chasteland, M.
6932 7240</p> <p>Chateau, H.
402</p> <p>Chatters, R. M.
8844</p> <p>Chaudron, G.
5 6 7 8 102
103 358 502</p> <p>Chaudron, T.
3723 5954 7018</p> <p>Chauvin, G.
2726</p> <p>Chauvin, R.
104</p> <p>Chayawatanangkur, K.
7099</p> <p>Chayka, M.
7424</p> <p>Cheek, C. H.
8094</p> <p>Cheema, M. N.
9000 9460 10034</p> <p>Cheke, A.
9681</p> <p>Chemical Processing.
9523</p> <p>Chemical and Engineering News.
559 672 1093</p> |
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ACTIVATION ANALYSIS—AUTHORS

<p>Chen, N. S. 9074 9075 9290</p> <p>Chen, P. Y. 5924</p> <p>Chen, T. S. M. 9686</p> <p>Chenaud, A. 7014</p> <p>Cheng, F. C. 5747 8243</p> <p>Cheng, H. 1151 1742</p> <p>Cheng, H. S. 531 1096 1131</p> <p>Chepel, L. V. 1238 1764 3729</p> <p>Cherey, M. 7169</p> <p>Cherkashin, V. I. 9703</p> <p>Cherki, C. 9763</p> <p>Chern, S. L. 8833</p> <p>Chernobylskii, A. G. 9508</p> <p>Chernov, G. M. 1068</p> <p>Chernyakov, V. V. 8814 9090</p>	<p>Chernyshev, A. I. 1557</p> <p>Chevallier, A. 4209</p> <p>Chevallier, F. 5701</p> <p>Chevarier, N. 5580</p> <p>Chiba, M. 1855 7097 7217 8915</p> <p>Chien, J. P. 5323</p> <p>Chikisheva, L. A. 1235 2369</p> <p>Childers, R. C. 6309 6712 6933 7246</p> <p>Chin, J. 7406</p> <p>Chinaglia, B. 874 885 1097 1098 1099 1455</p> <p>Ching, C. F. T. 2756</p> <p>Chiotan, C. 3759</p> <p>Cho, C. M. 3093</p> <p>Cho, W. J. 9644</p>
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ACTIVATION ANALYSIS – BIBLIOGRAPHY

- | | |
|---|---|
| <p>Choi, S. S.
1181</p> | <p>Chubarov, M. N.
5704</p> |
| <p>Chomel, N.
2849</p> | <p>Chudgar, A. J.
2493 6406</p> |
| <p>Choporov, D. Y.
6053 6072</p> | <p>Chueca, A.
7362</p> |
| <p>Chow, A.
4307 4312</p> | <p>Chul, L.
7916</p> |
| <p>Chow, T. J.
10065</p> | <p>Chulkin, V. L.
10015</p> |
| <p>Chowdhary, S. Y.
2473</p> | <p>Chun, M. J.
3713</p> |
| <p>Choy, S. C.
1251</p> | <p>Chung, K. S.
2888 4312 6392 6719</p> |
| <p>Choy, T. K.
507 1537 1962 2696</p> | <p>Chupeev, N. E.
5626</p> |
| <p>Chrenko, R. M.
9769</p> | <p>Churchill, T. R.
6316</p> |
| <p>Christell, R.
717 791 1100 1651 2563</p> | <p>Cichomska, K.
9268</p> |
| <p>Christensen, P.
8002</p> | <p>Cilindro, L. G.
7394</p> |
| <p>Christian, J. E.
1233 1259 4329</p> | <p>Cingoli, F.
1025</p> |
| <p>Christiansen, E. M.
8002</p> | <p>Ciuffolotti, L.
873 1097 1455 1456</p> |
| <p>Chubakov, A. A.
7380</p> | <p>Claeys, A.
1748</p> |
| <p>Chubarov, L. B.
9525</p> | <p>Clark, H. M.
106 610</p> |

ACTIVATION ANALYSIS – AUTHORS

Clark, L. 1618 1787	Colard, J. 107 1552 5989 6011 6063
Clark, R. G. 1802 9124 10394	Colas, R. 1503
Clark, R. S. 5716 9253	Colby, P. J. 10070
Clayton, C. G. 1922 10299	Coleman, R. F. 108 109 110 111 514 875 1103 1104 4304 4380 5390 5401 6376 6377 6839 7070 7129 7958 8031 8860 10236
Cleaton-Jones, P. E. 9547 9548	
Cless-Bernert, T. 1821	Collette, F. 7290 7291 7917
Cleyrergue, C. 6410 6412 6568 7003	Collins, K. A. 7309
Cloete, F. L. D. 9266	Colombo, U. P. 1254
Coates, A. D. 3973	Colorado School of Mines Research Foundation, Inc. 2796
Cobb, J. C. 1101 1486 3780	Comanescu, V. 1822
Cockbill, M. H. 1102	Comar, D. 570 882 1105 1143 1250 1278 1824 2558 3728 3745 5596 5701 5998 6001 6304 6932 7084 7240 7429 8026 8285 8411 9021 9163 9414 9600 9780 9887 10307
Cocks, F. H. 1966	
Cohan, M. D. 450 2521 2522 2647 2648	Comitato Nazionale Energia Nucleare. 9517
Cohn, S. H. 6064 7968 8877 9822 10276	Conaway, H. H. 9749
Cojocar, V. 796 803 9367 9848	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Condamin, J. 5579 8862	Corbeanu, S. 9641
Condit, R. H. 346 1483 8805	Corey, J. C. 7127
Connally, R. E. 3117	Coriou, H. 2726
Conner, J. P. 1967	Corless, J. T. 1457 1726 1872 2687 2737 3102 6073
Connor, J. 263	Corliss, J. B. 5936
Conrad, F. J. 1112 2568 4228 4274 6062	Corliss, W. R. 532
Cook, C. F. 519	Cornish, F. W. 115 396
Cook, G. B. 681 715 793 1255 2882 9764 10049 10301 10302	Cornu, A. 2768
Cooke, F. 9921	Cornuet, R. 891 1352 1503 7897
Coon, J. H. 114	Corth, R. 955
Cooper, J. A. 6360 6930 6941 7042 7125 8142 8896 9375 9511 9564 9565 9567 9959	Coryell, C. D. 1362
Cooper, R. D. 2972 4204 5977 6302 6931 7186 8000	Cosgrove, J. F. 116 117 370 371 980 5955 6049 6065 6978 7301 9346
Coote, A. R. 9628	Costa, A. 9640
Coquema, C. 1454 6324	Cottino, F. 5999 9640

ACTIVATION ANALYSIS—AUTHORS

Cotzias, G. C.					Crawford, P. B.				
929	1206	1705	2733		10318				
Couchoud, S.					Creevy, M. G.				
4393					9934				
Coulomb, R.					Crespi, M. B. A.				
1817	6324	7865			1255				
Couly, J.					Cripps, F. H.				
1543					4380	5390	6839	7129	
Courrier, W. D.					Cristu, M.				
6735					803				
Couture, C.					Cristy, G. A.				
6732					1048				
Covault, D. O.					Crittenden, J. C.				
1917					8319				
Coveart, A. S.					Crocket, J. H.				
1924					523	524	2839	5717	6405
					9867				
Covell, D. F.					Crofford, W. N.				
2547	3438	7046			1568				
Cowper, G.					Crombeen, J.				
1924					7253				
Craft, T. F.					Croset, M.				
10279					9763				
Cram, S. P.					Crouthamel, C. E.				
5338	6078	6084	6085	6998	8287				
Crambes, M. R.					Crouzel, C.				
2129	2280	3487	6318	8306	6932	7240			
Crandall, J. L.					Crowther, P.				
8871					1643				
Crawford, G. I.									
3502	3750								

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Crump, J. G.						Curran, S. C.				
3460						121	122	354		
Crumpton, D.						Currie, L. A.				
5594	9046	10274				4224	7062	8328	8893	9940
Csada, G. I.						Currie, R. L.				
5499						1813	7043	7938		
Csada, I.						Curtis, H. J.				
5793	8075					123				
Csajka, M.						Cuthbert, G.				
1613	3661	4190	5712	7233		1231				
7235	10379									
Csath, G.						Cuypers, J.				
7233	8885	10037	10172			1378	2567	6340		
Cseh, S.						Cuypers, M.				
9441	10126					546	1378	1477	1978	2550
						2567	2586	2707	3461	6059
						6340	6595	8926	9114	10223
Csikai, J.						Cypres, R.				
8391	10200					1968				
Csoke, A.						Czamanske, G. K.				
2659	10113	10126				1107				
Cuff, D. R. A.						Czitober, H.				
2429	5372					9554				
Cuneo, D.						D'Agostino, M. D.				
8855						707	3075	5383		
Curcaneanu, D.						D'Artemare, E.				
3759						9756				
Curie, I.						D'Eustachio, A. J.				
118	119	120				6326				
						D'Hont, M.				
						877				

ACTIVATION ANALYSIS – AUTHORS

<p>Da Silva Filho, J. G. 2904 2930</p>	<p>Dalziel, J. A. W. 1108</p>
<p>Dabagian, H. J. 232</p>	<p>Damburgs, N. A. 8294 9349 9362 9909 10029</p>
<p>Dabek, W. 903</p>	<p>Daminov, G. 10055</p>
<p>Dabrowski, H. 7151</p>	<p>Dams, R. 4254 5349 5447 5730 6394 6395 6446 7178 7207 7226 7227 7402 7876 7934 8199 9012 9126 9363 9938 10042 10050 10203 10383</p>
<p>Daglish, M. 1087</p>	
<p>Dahl, J. B. 50 2853 6848 9942 9953</p>	<p>Dams, R. F. 8290</p>
<p>Dahmer, L. H. 4411</p>	<p>Danforth, J. P. 1590</p>
<p>Daiev, C. 6355</p>	<p>Danguy, L. 125</p>
<p>Daiev, K. 9784 10155</p>	<p>Daniel, R. 1535 3997 8098 9462</p>
<p>Daieva, L. 6355</p>	<p>Daniels, L. B. 10120</p>
<p>Dakhnov, V. N. 1061</p>	<p>Danielsen, A. 7965 9285</p>
<p>Dale, B. McS. 124</p>	<p>Danilchenko, I. A. 6706 10001</p>
<p>Dale, I. M. 9741</p>	<p>Danilchenko, I. D. 5317</p>
<p>Dalton, J. V. 5402</p>	<p>Danis, A. 1416 9366</p>
<p>Daly, P. J. 5403</p>	<p>Danne, R. 8848</p>

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Dara, S. S. 9732</p> <p>Dardanoni, Z. T. 4243 7128</p> <p>Darrall, K. G. 5714 6718 8811 9210</p> <p>Das, H. A. 372 854 2838 3738 4230 5996 6956 7260 7408 7901 7911 7978 7987 8045 8073 8159 8914 8993 9174 9250 9417 9555 9626 9669 9847 9853 9877 10057 10060 10170 10233 10306</p> <p>Dasher, J. 169</p> <p>Daudel, P. 127 128</p> <p>Daudel, R. 126 645</p> <p>Daudin-Clavaud, P. 9972</p> <p>Daverhog, N. 9575</p> <p>David, D. 7200 8866 9756</p> <p>David, N. 6215</p> <p>Davies, W. H. 514</p>	<p>Davis, A. I. 9740 9810</p> <p>Davis, M. W. 8322</p> <p>Davis, R. C. 5571</p> <p>Davydov, M. G. 8864 9090</p> <p>Dayal, N. 2318</p> <p>De Beaucourt, P. 9016</p> <p>De Boeck, R. 5381 6696</p> <p>De Bruin, M. 6019 6924 9365</p> <p>De Bruyne, P. 87</p> <p>De Carvalho, A. M. B. 5770</p> <p>De Corte, F. 7395</p> <p>De Gelas, B. 7200</p> <p>De Goeij, J. J. M. 2562 2755 6013 6592 6954 8849 9313 9709 9710 9712 9713 10178 10210 10211 10212 10281 10400</p> <p>De Graaff, N. 9417</p>
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ACTIVATION ANALYSIS—AUTHORS

De Gracia Cilindro, L. 8244	De Vries, H. H. 10060				
De Grazia, A. R. 1383	De Vries, J. L. 9828 10267				
De Groot, A. J. 6924 10211 10281	De Waal, T. J. 7250				
De Hevesy, G. 1379	De Wet, W. J. 5410 5761 6346 6439 6691 6702 6748 7939 7941 8133 8190 8191 9011 9524 9548 9870 10402				
De Koning, J. 9626	De, A. K. 129 130				
De La Barre, F. 2620	DeHaan, A. 132				
De La Cruz, B. 10311	Deak, M. 1842				
De La Hidalga Suso, G. M. 9209 9215	Deal, R. A. 10351				
De Lange, P. W. 5761 6691 6748	Dean, J. A. 83				
De Neve, R. 2430 2431 2497 3485 3993	Dean, J. M. 8146 8148				
De Padovani, I. O. 1970	Dean, M. H. 3391				
De Soete, D. 886 1560 1735 1827 2430 2497 3485 3993 5772 7006 7289 7325 10372	Dear, B. D. 8857				
De Vega, V. R. 1970	Debiard, R. 5445				
De Voe, J. R. 2280 2536 2539 2592 2593 2978 3910 4224 5784 7185 9940	Debiesse, J. 1262				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Debrun, J. L.					Delucchi, A. A.				
5954	6591	7009	7018	7230	634				
7231	7232	9114	9586	10407					
Decat, D.					Dembrovsky, M. A.				
866	877	880	986	1156	7388				
1234									
Decell, R. F.					Demeny, A.				
348					8391				
Decharge, J.					Demidov, A. M.				
8282					948	6053	6072	9299	10068
Decker, C. F.					Demildt, A. C.				
1141					771	1256	6836		
Decker, J. L.					Demjen, Z.				
2123					1005				
Deev, Y. S.					Demmeler, M.				
7366	8090	8186			9294	9773			
Dehon, M.					Denechaud, E. B.				
8083					9658	10179			
Deibe, J.					Dengel, O. H.				
802					6976				
Del Callar, A. I.					Denney, J. D.				
9252					9550				
Del Milagro Perez, M.					Dennis, B. R.				
6722					10358				
Delbecq, C. J.					Dennis, J. A.				
133					8828				
Dell, E. S.					Denny, J. A.				
7020					10304				
Dellonte, S.					Depangher, J.				
5448					1				
					Derblay, P. R.				
					2719				

ACTIVATION ANALYSIS—AUTHORS

<p>Dermelj, M. 9660 9948</p> <p>Derrick, K. S. 5571</p> <p>Desai, H. B. 1596 3560</p> <p>Desborough, G. A. 9869</p> <p>Deschamps, N. 815 821 851 879 6410 6412 6441 6568 7003 8066 10422</p> <p>Desenne, J. J. 7429</p> <p>Dessouky, Y. M. 4319</p> <p>Deterding, J. H. 2651</p> <p>Deutsch, S. 10083</p> <p>Deutschman, J. E. 5409</p> <p>Dewar, W. A. 134 154 2719</p> <p>Dewey, M. A. P. 10067</p> <p>Deyris, M. 781 851 3721 3722</p> <p>Dhalenne, G. 9915</p>	<p>Di Casa, M. 9415 10278</p> <p>Di Cola, G. 7051 8003 9570</p> <p>Di Stefano, I. 9334</p> <p>Dibbs, H. P. 669 972 1353 3718 3785 9155 9156 9176</p> <p>Dickinson, R. 1231</p> <p>Dickson, R. C. 2503 3956</p> <p>Didising, D. 6312 8324</p> <p>Diebolt, J. 1539 1891 2557 7136</p> <p>Diecidue, A. T. 2732</p> <p>Dieckert, J. W. 5571</p> <p>Diehl, J. F. 9725</p> <p>Dienstbier, Z. 1948</p> <p>Dijkstra, G. 8856</p> <p>Dimitriadou, A. 965 1110</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|--|
| <p>Dingle, A. N.
7312 8214 9806</p> <p>Dinnin, J. I.
10347</p> <p>Division of Isotopes Development.
5527</p> <p>Dixon, B. W.
4255</p> <p>Dixon, H. D.
8328</p> <p>Dizdar, Z.
2148 2149</p> <p>Djourkovitch, O.
188</p> <p>Dmitriev, P. P.
9413 10406</p> <p>Dmitrieva, S. P.
10406</p> <p>Dmitrieva, Z. P.
9413</p> <p>Dmitrovskii, A. A.
5435</p> <p>Dneprovskii, I. S.
9582</p> <p>Dneprovsky, I. C.
9573</p> <p>Dobici, F.
7998</p> <p>Doctor, Z. K.
6980 7359 7374 8204 9967</p> | <p>Dogadkin, N. N.
1648 7423 8307</p> <p>Doge, H. G.
1485 1592 1632 3990 7145
8310</p> <p>Doggett, R.
6937 8995</p> <p>Dognin, J.
3991</p> <p>Dolginov, L. M.
8163</p> <p>Dolgirev, E. I.
8278</p> <p>Dolomanova, E. I.
5965</p> <p>Dolya, G. P.
7214 7923</p> <p>Domberg, H.
9805</p> <p>Dombrowski, C. S.
7968 8877 9822 10276</p> <p>Dominguez, G.
2714 9008</p> <p>Donaldson, G. W. K.
6846 7425</p> <p>Dooley, J. A.
6310 7040 7047 7059</p> <p>Dopel, K.
135</p> |
|--|--|

ACTIVATION ANALYSIS – AUTHORS

Dopel, R. 135	Draganic, I. 1696
Dorcioman, D. 803	Dragnev, T. N. 5429
Dorfler, G. 10416	Dran, J. C. 6970
Dorosh, M. M. 4277 8185	Draskovic, R. 9783 9945 10104 10132 10133
Dorpema, B. 5583	Draskovic, R. J. 7945 8296 9098 9123
Dorward, R. C. 6349	Draskovic, R. S. 7945 8296 9123
Doshi, G. R. 2786 6348	Dresser Industries Inc. 204
Doty, W. H. 7907 9049 9597	Drever, R. W. P. 354
Doughty, L. E. 10266	Drew, D. D. 1809 2574
Dow Chemical Company. 660 1724 2608	Druschel, R. E. 292
Dowling, J. H. 962	Druyan, R. 136 730
Downs, W. E. 2147 7105 8322 9886	Drynkin, V. I. 1445 1558 8278 9088 10040
Downton, D. W. 2526 7028	Dubay, M. 7234 9897 10102
Drabner, J. 7175	Dubeau, N. P. 1029

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Dubinskaya, N. A.						Dumont, P.				
5727	5869	8298	8907	9674		6595				
Dubois, J.						Duncan, R. N.				
1552	2604	6011	6063			4327				
Dubovskii, B. G.						Dunham, C. L.				
9281						4376				
Duc, T. M.						Dunn, A. L.				
5580						1041	1975			
Duce, R. A.						Dunn, R. W.				
1266	1569	1874	2873	5397		138	512	513		
6017	6361	6362	6363	6364						
6365						Dunning, K. L.				
Dudey, N. D.						8891				
6923	8287									
Duffey, D.						Durbin, D. R.				
738	2141	2665	2722	5407		5884				
5743	5747	7204	7900	7985						
8018	8895	9055	9311	9630		Durham, R. W.				
9772	10163	10166	10369			701				
Duftschnid, K. E.						Dutilh, C. E.				
5994						9669				
Dugain, F.						Dutina, D.				
1165	1417	1741	1759	1983		1309				
2668	5593	6356	7071	7326						
8917	10425					Dutov, A. G.				
Dukenbaeva, A. B.						2385	3369	3371	3384	3395
5626	6832					5706	6454	7132	7925	8091
						8108	8153	9995		
Dulakas, H.						Dutov, A. I.				
6734						3370				
Dumanovic, J.						Dutton, J. W. R.				
9278						10089				
Dumesnil, P.						Duval, C.				
5449						8383				

ACTIVATION ANALYSIS—AUTHORS

<p>Duxbury, G. 2981</p>	<p>Eckhoff, N. D. 6448 7115 8963 10143</p>
<p>Duyckaerts, G. 2713 4303</p>	<p>Eden, Y. 4205 9566</p>
<p>Dvukhbabnaya, T. M. 1585</p>	<p>Edgington, D. N. 3958 7061 9457 9943 10070 10389</p>
<p>Dybczynski, R. 2932 2989 5341 8309</p>	<p>Edwards, J. 2733</p>
<p>Dyer, F. F. 819 1361 1499 1716 1717 1725 1796 2531 2533 2699 5711 8169</p>	<p>Edwards, J. W. 1178 6743</p>
<p>Dyer, I. A. 2685 9246</p>	<p>Edwards, L. C. 144</p>
<p>Dyer, N. C. 5756</p>	<p>Edwards, R. R. 926 6057 7405</p>
<p>Dymond, J. A. 67</p>	<p>Eeckhaut, J. 305</p>
<p>Dzhemardyan, Y. A. 5854 9577 10024</p>	<p>Eeckhaut, Z. 304 306</p>
<p>East, B. W. 9476</p>	<p>Efanov, A. I. 9101</p>
<p>East, L. V. 10378</p>	<p>Egawa, M. 5566</p>
<p>Eastwood, T. A. 141 2787</p>	<p>Eggebraaten, V. L. 2524 9498</p>
<p>Eberhardt, P. 5592</p>	<p>Egiazarov, B. G. 2564 3751 6573 8972</p>
<p>Ebert, K. H. 142 143</p>	<p>Egolin, Y. G. 10006</p>

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Egorova, A. A.					Eisner, U.				
871					4410	7094	9520		
Ehlers, K. W.					El-Shamy, H. K.				
77					1856	2654	9726		
Ehmann, W. D.					El-Sherif, A.				
9	145	146	199	698	6215				
988	1002	1017	1022	1117					
1169	1214	1566	1571	1718	Eldridge, H. B.				
2506	2774	2975	3352	3774	9106				
5720	5775	5884	6447	6943					
6958	7195	7371	7385	7386	Eldridge, J. S.				
7393	7983	8062	8085	8241	822	1643	1934	1942	1943
8304	8305	8984	8985	9064	1944				
9065	9066	9073	9418	9472					
9537	9542	9561	9562	9619					
9714	9730	9731	9733	9734					
9753	9754	10325							
Ehret, R.					Elejalde, C.				
9805					7336				
Ehrlich, G.					Elek, A.				
8310					1615	4231	6826	9121	9441
					10175				
Eichelberger, J. F.					Elektronik Anzeiger.				
1609	1637	2591	2596		10285				
Eichholz, G. G.					Elkady, A.				
147					7900	9055	9630	9772	10180
Eichor, M. E.					Eller, E. L.				
10344	10363				10168				
Eife, K.					Ellett, W. H.				
5555					3443				
Eife, K. H.					Ellis, S. C.				
7144					8189				
Eisele, J. A.					Ellis, W. H.				
6988	9428				2534	2540	2772	6006	
Eisler, P. L.					Elpidinskii, A. V.				
8079					9528				

ACTIVATION ANALYSIS—AUTHORS

Emeleus, V. M.						Environmental Research.				
561	1132	7873				10130				
Emelyanov, E. M.						Erametsa, O.				
10169						9502				
Emery, J. F.						Erasmus, C. S.				
291	292	640	641	819		10076				
964	974	1031	1035	1268						
1361	1635	1709	1715	1725		Erdey Schneer, A.				
1727	1796	2533	2931	6935		8075				
9269	10333									
Emhiser, D. E.						Erdey, L.				
274	275					7287	10322	10379		
Emmert, R. A.						Erdtmann, G.				
4289						7428	8996	9855		
Endo, H.						Erickson, N. E.				
9214						6040	6311	9079	9191	
Endo, T.						Erion, W. E.				
572	778	1174	1693			148				
Energie Nucleaire.						Erlenmeyer, H.				
6219	8389					7883				
Engelmann, C.						Erofeeva, N. N.				
578	814	849	1043	1263		5435				
1778	1816	1823	2298	2555						
3727	5442	6070	6584	6593		Erokhina, K. I.				
6597	7015	7106	7322	8385		149				
9421	9484	9485	9486	9595						
9625	9691	9745	10039	10047		Erwall, L. G.				
10199	10405					562	573	2563	3733	8806
England, E. A. M.						8865				
2433										
England, L. D.						Eschard, G.				
2254	3070	3976	8810			10082				
Enomoto, S.						Espanol, C. E.				
6859	9038					5378	6700	9288	9687	9688
						9794	10062			

ACTIVATION ANALYSIS – BIBLIOGRAPHY

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|--|--|
| <p>Esson, J.
6741</p> | <p>Fabbi, B. P.
6684</p> |
| <p>Estey, H. P.
3962</p> | <p>Fabbri, E.
1415</p> |
| <p>Etman, M.
6721</p> | <p>Faber, C.
10224</p> |
| <p>Eukel, W. W.
77</p> | <p>Facchini, U.
151</p> |
| <p>Euler, B. A.
2547 7046</p> | <p>Facetti, F.
7986</p> |
| <p>European Atomic Energy Community.
1918 1927 3777 7173</p> | <p>Facetti, J. F.
7986</p> |
| <p>Evans, A. E.
10349 10378</p> | <p>Fairchild, R. G.
7321 7968 8877</p> |
| <p>Evans, A. G.
7037</p> | <p>Faizullaev, F.
8274</p> |
| <p>Evans, C. A.
2514</p> | <p>Falcoff, R.
2327</p> |
| <p>Evans, D. J. R.
6745 9852</p> | <p>Falkevich, E. S.
8412</p> |
| <p>Evans, R. D.
1953 2694 2762</p> | <p>Fan, L. T.
7115</p> |
| <p>Evrard, C.
9226</p> | <p>Fanale, D. T.
863</p> |
| <p>Evseenko, Y.
1548</p> | <p>Faraci, J. P.
10238</p> |
| <p>Ewing, R. A.
8980</p> | <p>Faraggi, H.
120</p> |
| <p>Eychenne, M.
5444</p> | <p>Farinelli, U.
8004</p> |

ACTIVATION ANALYSIS - AUTHORS

Farmilo, C. G.						Feinendegen, L. E.				
9494						10152				
Farrior, W. L.						Feldman, I. I.				
9698						3462	5577			
Farvolden, S.						Feldman, M. H.				
9575						2584	2585	2637	6068	7999
Fasano, A. N.						Feldt, W.				
10275						10084				
Fasolo, G. B.						Felker, V. M.				
883	1097	1167	1254	1456		2957				
Faure, J.						Fell, G. S.				
3991						7087				
Faure, P. K.						Fels, I. G.				
6368	6402					938				
Faure-Mazagol, L.						Fendrik, I.				
10131						5992				
Favale, A. J.						Fenyés, T.				
707						9908				
Fawcett, P.						Fer, A.				
10160						6939	7242	7334	7404	9952
Fearing, H. W.						Ferenczy, Z.				
909						1113				
Federer, B.						Ferguson, D. E.				
9446						7192				
Fedoroff, M.						Ferguson, G. A.				
6733	6829	8066	8883	8884		9888				
8992	9341	9594	10052							
Fedorov, V. V.						Ferguson, R. L.				
1430						1268				
						Fergusson, A. G.				
						154	2719			

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Ferrett, D. J.						Filippov, Y. M.				
466	615					9699				
Fetteroff, S.						Filippova, N. V.				
10275						3365	9583	9796		
Feuerstein, H.						Filippova, T. P.				
2333						9702				
Feuillade, G.						Fineman, I.				
9763						562	573	620	1114	3756
Fields, T.						Fink, R. W.				
938	1141	2125	2535	3710		77	157			
10283						Fink, W. C.				
Fierotti, G.						6209				
9404						Finkelshtein, Y. A.				
Fiess, H.						10040				
1801						Finn, J. J.				
Fifield, F. W.						7111				
362	600					Finston, H. L.				
Filby, R. H.						1860	3126	4194		
1432	1433	1480	1678	2509		Fireman, E. L.				
2669	6941	6963	7243	8293		158	563	721	6387	
9276	9367	9459	9568	9572		Fireman, P.				
9740	9810	10388				2730				
Filgas, R.						Fischer, E.				
9089						1523				
Filip, A.						Fischer, W.				
10104						8173				
Filippone, W. L.						Fish, B. R.				
10261						8958				
Filippov, E. M.						Fisher, C.				
2966	9177	9500				51	159	564		
Filippov, V. V.										
10003	10008	10012	10016	10017						

ACTIVATION ANALYSIS — AUTHORS

Fisher, D. E.

1386	1719	1793	1813	5721
6386	6387	6389	6390	6399
6437	6749	7885	7940	7974
7975	10079	10142	10145	

Fisher, E. M. R.

7123

Fishman, M. J.

2656 4412

Fite, L. E.

574	642	845	1033	1058
1567	1702	1712	1721	1809
1866	1912	2586	2702	2740
3662	5434	6861	6937	7113
7346	9042	9330	9493	9951
9957				

Fittkau, S.

6716

Fitzek, A.

10122

Fitzgerald, J. V.

274 275

Flack, F. C.

7238 7239

Flaherty, J. P.

9106

Flakus, F. N.

9850

Flechon, J.

28

Fleckenstein, A.

1704

Flegenheimer, J.

1504

Fleischer, A. A.

1836 6598 7023

Fleishman, D. M.

592 2553 7431 9082 9689

Flenk, R.

9427

Flerov, G. N.

301

Fletcher, K. E.

5547

Fleurence, A.

1540

Flieder, D. E.

7195

Flikke, M.

5405

Florin, A. E.

9291

Florkowski, T.

5866

Fodor-Csanyi, P.

5348

Fogelstrom-Fineman, I.

160

Foldzinska, A.

1862 6054 7093

Fomenko, I. N.

9578 10324

Fomenko, V. T.

9578 10324

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Fontan, J. 1543	Fouarge, J. 162 2713 4303
Fontenille, J. 9307	Fouche, K. F. 4253 7210
Forberg, S. 919	Fourcy, A. 2736 2876 3991 4315 5445 5978 6281 6409 6704 6939 7242 7334 7404 7921 8848 9901 9952
Ford, R. J. 7990	Fournet, L. 760 821 851 879 1410 1699
Foreman, J. K. 7953	Fradkin, G. M. 1430
Forro Universal. 653	Frana, J. 7220 9627 10078 10214 10423
Forsberg, H. G. 562	Francisco, V. 10240
Forsen, S. 3965	Francois, P. E. 6730 10274
Forshufvud, S. 565 1225 2570	Frank, D. H. 8175
Forslev, A. W. 1422	Franke, K. H. 1000
Forssen, A. 9502	Franke, R. 7919 8067
Forster, R. A. 10358	Franz, I. 887 888
Forster, W. O. 8847	Franzgrote, E. 4289
Foss, J. E. 7989	Fraser, R. 1110
Foster, L. M. 161	

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Fraser, T. R. 965						Fritz, K. M. 2798 3357 3981			
Freedman, M. S. 163						Fritze, K. 550 6341 6407 6745 7072 8052 10033			
Freeman, D. H. 7078 8328						Frohberg, M. G. 2678			
Freiburg, C. 7428 8996 9855						Frolov, V. V. 9281 9412			
Fremlin, J. H. 6004 7372 7412 7426 9074 9290 9739						Fryer, G. E. 1684			
Frevert, E. 9173						Fryer, J. R. 1168			
Frey, F. A. 6079						Frykberg, B. 1089			
Freyberger, W. L. 169 171						Fuchs, L. H. 8236			
Friedlander, G. 1777						Fujii, I. 375 426 606 899 960 998 1015 1016 1038 1063 1115 1116 1399 1530 1656 1681 2649 2749 3768 5380 5431 5432 7114 8977			
Friedman, G. M. 10232									
Frigerio, N. A. 8092 8136						Fujimoto, M. 5928			
Frischauf, H. 1767 3358 3360 5947 6303 7877 9554 10243						Fujino, O. 5776 5777			
Fritz, B. 6593						Fujino, R. 1170 1697			
Fritz, G. J. 2540 2772						Fujino, T. 1019			

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Fujita, A.						Furushima, K.				
10156	10157					7894				
Fukai, R.						Furuya, K.				
164	165	409	758	823		9067				
10085										
Fukao, Y.						Gadda, F.				
2297						624	762			
Fukase, M.						Gadzhokov, V.				
2440						8157				
Fukuda, K.						Gage, S. J.				
2711	7298					6319	8022	8311	9514	10162
						10350				
Fukushi, N.						Gahn, R. F.				
9230						3085				
Fuller, R. K.						Gaitanis, C. D.				
2553						161				
Funk, W. H.						Gaittet, J.				
9276						166	167	767		
Funkhouser, J.						Gale, A. J.				
6399						91	92	1808		
Furr, A. K.						Galesloot, T. E.				
4287	5744	6350	9823			5996				
Furuhashi, N.						Galiano Sedano, J. A.				
5726	9214					4249				
Furukawa, M.						Galiano, J. A.				
1151	1194	1742	3995	7223		1833	2752	2753		
Furukawa, Y.						Galli, A. N.				
5919						8421				
Furusawa, T.						Gallyas, M.				
9039						5348				

ACTIVATION ANALYSIS—AUTHORS

Galstyan, I. L. 10017	Gareis, F. J. 2121
Gambaryan, R. G. 5317 6706 7110 10001 10007 10008 10020	Garrec, C. 6939
Gan, R. 2634	Garrec, J. P. 5445 5978 6939 7334 7338 7404 9901 9952
Ganapathy, R. 5716 9474 9916 10092	Garsen-Hoekstra, J. 10210
Gangadharam, E. V. 7108 7196 8238 10096	Garzon, O. L. 3474
Gangadharan, S. 1903 2602 2976 3560 9824	Gasanov, E. M. 10171
Ganguly, A. K. 6331	Gatrousis, C. 168
Ganiev, A. 8123	Gatz, D. F. 7312
Ganiev, A. G. 7135 7237 8110 8111 8112 8113 8115 8154 8155 8377 8378 8379 8382	Gaude, G. 2797
Gantner, E. 9809	Gaudin, A. M. 169 170 171 445
Garbrah, B. W. 3466 5933 6367	Gauer, Z. E. 301
Garcia-Rosell, L. 10326	Gauthier, P. 172 173
Gardner, D. G. 7915	Gautier, J. J. 9260
Gardner, R. P. 700	Gavenda, J. D. 8311

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Gavrilov, I. P.						Gerasimov, V. I.				
9999						8814				
Gebauhr, W.						Gerbier, R.				
174	1118	1354	1731	1839		876				
2769	2788	2840	7942	9272						
Gehl, M. A.						Germagnoli, E.				
1474	1959					2	1074	1095		
Geisler, M.						Gerrard, M.				
10355						3803				
Geisman, J. R.						Getoff, N.				
9261						176				
Gelfman, A. Y.						Ghinturi, E. N.				
4275						7420				
Gelli, D.						Giambastiani, R.				
1406						2930				
Genaeva, L. I.						Gibbons, D.				
6822	8006	9528				19	177	178	179	180
						574	626	642	769	852
						1570	1807	1809	1815	1896
						2525	3479	3491	3492	3497
						3500	5409	6948	6974	7346
						7874	8924			
General Dynamics Corporation.						Gibbons, J. H.				
566	576	577	598	611		8034	8855			
663	764	1279	1876							
Genova, N.						Gibello, A.				
9704						8004				
George, K. D.						Giber, J.				
6711	8320					6708	6990	8068	9981	
Georgiev, G.						Gietz, R. J.				
10155						6341				
Georgiev, N.						Gijbels, R.				
984	2923					1119	1425	2515	5363	5364
Gerard, J. T.						5940	6398	6723	6728	7006
7938	8238	10096	10168			7076	9093	9130	9131	9869
						9918	10030	10372		

ACTIVATION ANALYSIS—AUTHORS

<p>Gilat, G. 772</p> <p>Gilat, J. 609 840 843 4194 5262 6983 7216</p> <p>Gilbert, E. N. 2640 3730 3731 5336 5500 5619 5703 5787 6833 7118 7119 7212 8111 8358 9159 9356 9360 9361 10291</p> <p>Gilboy, W. B. 9757</p> <p>Gileadi, A. 10390</p> <p>Gill, R. A. 181</p> <p>Gillespie, A. S. 678</p> <p>Gillespie, F. C. 8918 9780</p> <p>Gillette, R. K. 9665 9820 10255</p> <p>Gillings, B. R. D. 418</p> <p>Gillis, J. 1211 1221</p> <p>Gills, T. E. 8020 9379</p> <p>Gillum, D. E. 8085 9733</p> <p>Gilman, A. R. 58</p>	<p>Gilmore, J. T. 696 1258 1670 1738</p> <p>Gimesi, O. 10379</p> <p>Ginturi, E. N. 3757 9440 9532</p> <p>Ginzburg, M. I. 9799</p> <p>Gioria, G. 10260</p> <p>Giovannetti, S. 6008</p> <p>Girard, E. 9756</p> <p>Girardi, F. 579 708 790 942 1042 1277 1281 1541 1573 1598 1676 1729 1755 1779 1878 2556 2757 2836 2901 3082 3724 3793 3985 5421 5980 5987 6016 6997 7051 7421 8003 8195 8292 8410 9023 9122 9135 9445 9570 10086</p> <p>Girardi, G. 977 5583</p> <p>Giron, H. 7014</p> <p>Giroux, J. 5580 9182 9454 9483 9768 10400</p> <p>Girshin, A. B. 4197 5435</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

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|--|---|
| <p>Girsig, F.
9427</p> <p>Girton, R. C.
10177</p> <p>Gitlin, D.
2730</p> <p>Gitter, S.
772 1645</p> <p>Givens, W. W.
7033 8876 9259 10419</p> <p>Gladney, E. S.
10384</p> <p>Glagolicova, A.
10357</p> <p>Glass, A. L.
9078</p> <p>Glasson, V. V.
1558 8278 8930</p> <p>Glazkov, A. S.
9411</p> <p>Glazov, V. M.
9994</p> <p>Glazunov, M. P.
1227 2306 6720 7082 7083
8819 9781 10403</p> <p>Gleit, C. E.
1478 1584 1655 1786 1844</p> <p>Glendenin, L. E.
133</p> | <p>Glomski, C. A.
9458 10125</p> <p>Glos, M. B.
2670</p> <p>Glover, E. D.
455 9491</p> <p>Glubrecht, H.
2803 5992 7889</p> <p>Gluck, P.
1586</p> <p>Glukhareva, N. A.
1286 2717 10024</p> <p>Glukhov, G. G.
9360 9361 10291</p> <p>Glukhova, G. V.
10291</p> <p>Gluskoter, H. J.
9765 10398</p> <p>Gobbi, A.
1091</p> <p>Gobrecht, H.
2775 4299 4300</p> <p>Goda, S.
1513 5777</p> <p>Godar, S.
639</p> <p>Godfrey, B. E.
9761</p> <p>Goedert, L.
5450 5451 5452 7419</p> |
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ACTIVATION ANALYSIS – AUTHORS

Goedkoop, J. A. 6288	Goede, A. D. T. 9831
Goel, P. S. 9639 9646	Goede, G. C. 7948 8031 8860 10236
Goenvec, H. 313	Goodman, C. 189
Gofman, A. K. 2717	Gopal–Ayengar, A. R. 10111
Gohshi, Y. 7201 9034	Gorbachev, A. N. 10209
Golanski, A. 7460 7962	Gorbunov, V. F. 9782
Gold, R. 184 185	Gordienko, A. G. 4196
Goldberg, E. D. 84 85 86 186 187 8074	Gordon, B. E. 732
Goldschmidt, B. 188	Gordon, C. L. 190 191 1605
Goldstein, G. 983	Gordon, C. M. 1606 6936 9678 9717
Goldstein, M. I. 538	Gordon, G. E. 5936 6970 8331 10384
Goldsztein, M. 6324	Gordon, H. S. 77
Goles, G. G. 1122 5718 5936 6964 7869 7935 8235 9734 9844 10134 10135 10136 10137 10282 10327 10332 10343	Gordus, A. A. 6209 6217 6224 6227 6241 6242 6244 8252 8999 10103
Gomez, H. 802 1734 2926	Gorenko, A. F. 9001 9899

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Gorev, A. V. 8928 10148</p> <p>Gorin, E. 2933</p> <p>Gorlich, W. 9874</p> <p>Gorodetzky, S. 4209</p> <p>Gorrell, J. H. 6310 6753 7047 7059</p> <p>Gorshkov, G. V. 978</p> <p>Gorshkov, V. V. 9662</p> <p>Gorski, L. 621 1623 1859 3335 5866 6325 6844 6973 7351 10330 10356</p> <p>Gorsuch, T. T. 192</p> <p>Goshi, Y. 1509</p> <p>Gosling, A. W. 10141</p> <p>Gosset, J. 1263 6593 7015 9745</p> <p>Goto, H. 193 805</p> <p>Goto, M. 9045</p>	<p>Gotte, H. 194 195</p> <p>Gould, W. A. 9261</p> <p>Govaerts, J. 203 747</p> <p>Govor, L. I. 9299</p> <p>Graber, F. M. 2272 2350 3100 3101 4284 5979 6309 6712 6933 7246 7884 7944 8135 9082 9117 9274</p> <p>Graeff, P. 6593 6597</p> <p>Graham, L. 2125 2535 3710 10283</p> <p>Graham, W. W. 8036</p> <p>Grakhov, V. A. 5858 8127 8160 8380 8381</p> <p>Grammakov, A. G. 978</p> <p>Grand, J. A. 729 1123</p> <p>Grandjean, P. 197</p> <p>Grant, L. G. 966 6006 9196</p> <p>Granucci, G. 9024</p>
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ACTIVATION ANALYSIS – AUTHORS

Grass, F.	9427	9661	10159			Greenwood, R. C.	665	713	1611	1783	1785
							2146	3811	10167		
Graudinya, L. Y.	7133					Gregers-Hansen, B.	9207				
Gray, A. L.	1489	2507	2622	3750	4202	Grieg, R. A.	9296				
Gray, F. B.	567					Griffin, J. B.	6227	8252			
Gray, P. R.	9200					Griffon, H.	198				
Green, D.	10160					Grillot, E.	32	200	202		
Green, D. E.	622	1907	3391			Grimanis, A. P.	686	964	1725	1728	1971
							2701	4272	5415	5935	5995
Green, F. L.	1590	1591					6942	6944			
Green, J. L.	4226					Grimes, N. W.	10274				
Green, T. E.	9478					Grinberg, L. L.	8297				
Green, T. H.	8317					Grosel, J.	1487	1840			
Greendale, A. E.	634	3333				Groshev, L. V.	948				
Greene, R. E.	261	6320	9448			Grosse-Ruyken, H.	1592	2621	7145	8005	8310
Greenland, L. P.	4388	5307	5718	6443	6724	Grossmann, K. D.	1633				
	8853	10136	10347	10348		Grossmann, O.	1632	8310			

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Grosso, P.					Guest, A.				
1965	3957	6397	9328	9505	6735				
Grothe, K. H.					Guichard, F.				
1578					10422				
Grove, G. R.					Guillaume, M.				
1609	1637	2591	2596		8886	9465	9468		
Gruber, E.					Guinn, V. P.				
9724	10418				183	205	444	568	569
					592	659	716	733	846
Grummitt, W. E.					934	935	1014	1034	1056
1890	9329				1327	1355	1451	1482	1488
					1508	1620	1649	1665	1868
Grunewald, R.					2144	2348	2383	2517	2595
1259					2598	2605	2607	2653	2782
					2790	2791	2792	2939	2959
Grushko, Y. S.					3028	3063	3072	3077	3486
9424					3495	3498	3504	3505	4286
					5979	6020	6025	6034	6225
Gruverman, I. J.					6305	6333	6751	6840	6929
652	699	1124			7126	7140	7191	7350	7417
					7943	8009	8030	8132	8137
					8150	8407	9077	9080	9082
					9205	9211	9212	9217	9273
					9274	9275	9312	9378	9384
					9385	9386	9387	9388	9389
					9390	9391	9392	9395	9399
Gruzin, P. L.					9400	9401	9402	9442	9557
8863					9605	9792	9793	9813	9906
					9946	10027	10174	10397	
Guazzoni, P.									
1046	9718				Gunne, K. E.				
					9348				
Guckel, W.									
9746					Gunnink, R.				
					5587	7066			
Guczi, L.									
664					Gunther, F. A.				
					2347				
Gueben, G.									
203					Gupta, R. C.				
					8903				
Guerin, P.									
9941					Gureev, E. S.				
					3395	5857	6200	7134	8160
					8380	8381			
Guernet, G.									
9307									

ACTIVATION ANALYSIS – AUTHORS

Gurevich, A. V.	Haerdi, W.
10021	356 690 906 915 940
	1217 1397 1426 1535 1536
Gurfinkel, Y.	2481 2623 2626 3996 3997
609 840	4309 6335 7080 7156 7160
	7161 7956 8057 8063 8300
	9462 9696
Gurkov, V. A.	
10007 10020	Haffner, J. W.
	6453
Gusinskii, G. M.	
4197 5435	Hager, D.
	10247
Gustafson, P. F.	
938 2552 8017 9051	Haggag, A.
	5369
Gutenmann, W. H.	
6437	Hagle, R. E.
	9458 10125
Guttman, S.	
1020	Hagman, D.
	8904
Guzzi, G.	
1573 1676 1729 1755 1779	Hahn, K. J.
1878 1919 2556 3082 3793	2434 2445 3062 6328 7215
5421 5583 7051 8003 8410	8889
9023 9570	
Haagensem, U. H.	Hahn, P. B.
9953	5699
Haas, E.	Hahn, R. B.
9337	7977
Haas, W. E.	Hahn, R. L.
9708	153 201 1065 2259 2531
	3071 4193 6579
Hackleman, R. P.	Hahn-Weinheimer, P.
9442 9557 9792 9813 9906	6741
Hadzistelios, I.	
6942	Haigh, C. P.
	206 207
Haerdi, H.	Haines, K.
1321	6743 8059

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Hair, M. W. 10253</p>	<p>Hamada, K. 1929 5969</p>
<p>Hajdukovic, G. T. 1274</p>	<p>Hamada, S. 2440 9637</p>
<p>Haldar, B. C. 677 2811 6086 6738 6980 7359 7374 7376 8061 8204 9321 9966 9967 10292 10305 10354 10421 10424 10429 10430</p>	<p>Hamaguchi, H. 209 211 410 571 572 575 585 776 778 779 820 922 1125 1127 1128 1154 1155 1174 1176 1307 1385 1693 2283 2340 3755 6220 6379 6445 6729 6864 6962 7223 8172 9041 9234 9279 9456</p>
<p>Hale, F. H. 908 1083</p>	<p>Hamamoto, K. 2440 9637</p>
<p>Hall, E. 1132</p>	<p>Hamann, W. 2813</p>
<p>Hall, E. T. 7873</p>	<p>Hambucken, J. 7917</p>
<p>Hall, H. E. 1683</p>	<p>Hamelin, R. 1503</p>
<p>Hall, J. D. 2504 5578</p>	<p>Hamilton, E. I. 10051</p>
<p>Hall, T. A. 208</p>	<p>Hammar, L. 3965</p>
<p>Hallaba, E. 6721 9171</p>	<p>Hampton, W. J. 946 2662 7111</p>
<p>Haller, W. A. 6012 6058 6360 6941 6963 7042 7077 7125 7243 9246 9459 9568 9572 9810 9818 10366</p>	<p>Han, I. G. 2540 2772</p>
<p>Hallett, R. 7052</p>	<p>Hanappe, E. 6213</p>
<p>Halverson, G. 910</p>	<p>Hanappe, F. 10083</p>

ACTIVATION ANALYSIS—AUTHORS

Handa, M. 604	Harris, J. A. 1795 2559 2579 2688
Handley, T. H. 1351 6709 8418 8855	Harris, W. F. 1589
Hans, A. 7290 7291	Harrison, A. 543 7902
Hanson, H. 6716	Harrison, G. E. 214 10112
Hanson, P. J. 8847 10185	Harrison, G. M. 6937 8995
Happ, W. W. 213	Harrison, J. E. 9599
Hara, R. 947 1694 1908	Harrison, P. E. 7957 8251
Harbottle, G. 7937 9534	Harrison, W. W. 6955 8858 9608
Harden, R. M. 6047	Harry, R. J. S. 9889
Harding, J. L. 10365	Hart, D. M. 6312 8324
Harlan, R. A. 10351	Hartley, H. O. 2691 2706
Harley, N. 7063	Harwalkar, M. R. 10111
Harmison, L. T. 2665 2722 3475	Harward, M. E. 6442
Harndt, E. 9019	Hasanen, E. 9343 9648
Harrap, V. 2376	Hasebe, N. 7906

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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| <p>Hashimoto, J.
211</p> <p>Hashimoto, K.
8272</p> <p>Hashimoto, M.
6859 9038</p> <p>Hashimoto, T.
8171 9068</p> <p>Hashimoto, Y.
2672</p> <p>Hashitani, H.
2683</p> <p>Hashizume, T.
8254</p> <p>Haskin, L. A.
728 909 1383 1474 1959
5852 5939 6343 9092 9658
9659 9858 10093</p> <p>Haskin, M. A.
6343</p> <p>Haskins, J.
2124</p> <p>Hasseltine, E. H.
3788 7308</p> <p>Hattermer, J. A.
194</p> <p>Hattori, D. M.
6922 8390 9051</p> <p>Hatuda, Z.
1531 5328 5867</p> | <p>Haumont, S.
2633</p> <p>Haven, G. T.
1975</p> <p>Haven, M. C.
1975 3062</p> <p>Havens, W. W.
503 505 506</p> <p>Hawkins, R. H.
7127</p> <p>Hayashi, K.
9107 9108</p> <p>Hayashi, M.
9324</p> <p>Hayashi, S.
4240</p> <p>Hayashi, Y.
7295 9247</p> <p>Hayes, D. W.
4219 9255</p> <p>Haynie, G.
9924</p> <p>Hayward, C. C.
9588 10043 10428</p> <p>Hazleton Nuclear Science Corporation.
668</p> <p>Headridge, J. B.
3336 5342</p> <p>Heady, H. H.
500 2498 9436</p> |
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ACTIVATION ANALYSIS – AUTHORS

Heagan, B. 7188					Helby, P. 943				
Healy, W. B. 2881 4232					Helf, S. 10368				
Heath, R. L. 2684 7038					Hellborg, R. 9433				
Hecht, F. 813 982 1526 1564 2296 7304 7306 9723 10036 10417 10418					Hellstrom, S. 2604				
Hecker, A. B. H. 3105					Helmke, P. A. 9658 9858 10093				
Hecker, R. 1612					Hendel, H. W. 21				
Hedges, D. H. 2848					Henderson, P. 5406 9697 9741				
Hegedues, D. 1614 1832 2806 10322					Hendry, C. O. 6598				
Heidinga, M. C. 10281					Henitz, P. A. 4283				
Heier, K. S. 8317 9651 9830 10269					Henke, G. 8051 8826 9265 9286 9293 9297 9835 10122 10123 10124				
Heinen, K. G. 3514					Henkelmann, R. 3986 6370 7194 7337 9617 10257				
Heinonen, J. 9343 9521					Henessen, J. A. 2124 6309 6712 6933 7246				
Heintz, P. H. 5733					Henninger, W. A. 1124				
Heizer, R. F. 6391					Heno, Y. 5520				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Henry, C. N.						Herrmann, R.				
6713	6714					5988				
Henry, W. M.						Herzog, W.				
69	1026	1951	2652			100				
Herage, T. I.						Heslop, J. A. B.				
9852						622	1312			
Herak, M. J.						Heslop, R. B.				
1581						7931	7932	8983	9645	9667
Herbertz, G.						Hess, B.				
9245						7241	9100	10094		
Herforth, L.						Heurtebise, M.				
1130						9960	10035	10242	10289	
Hermann, A.						Hevesy, G.				
6378						227	228			
Hermann, F.						Heydegger, H. R.				
9723						7933				
Hernegger, F.						Heydorn, K.				
143	217					2696	3098	3099	3100	4314
						5983	6946	7396	9164	
Herold, C.						Heymann, D.				
1193	1344					5262				
Herpers, U.						Hiatt, M. A.				
5591	6369	6689	7241	8198		10386				
8966	9100	9808	9859	10094						
10381	10382					Higashi, K.				
						1325	3773			
Herr, W.						Higashi, T.				
100	218	219	222	223		5927	9237			
224	225	226	347	683						
1345	1612	2644	5591	5592						
6369	6689	7241	8198	8966						
9100	9859	10094	10381	10382						
Herrmann, G.						Higatsberger, M. J.				
761						9738				

ACTIVATION ANALYSIS – AUTHORS

High Voltage Engineering Corp.					Hingorani, S. B.				
647	1837	1838	1854		2977				
Hightower, D.					Hinn, G. M.				
1452					8012	9550			
Higuchi, H.					Hinoshita and Suji.				
2340	3994	6220	6379	6445	1758				
6729	6962	9086	9456						
Hilbrand, H.					Hirai, H.				
8870					7300				
Hilderbrand, E. S.					Hirano, S.				
10345					424	754			
Hill, M. E.					Hirao, Y.				
6209					7223				
Hill, N.					Hiraoka, T.				
1458	7081				1929				
Hill, T. R.					Hirayama, T.				
8963					1929	5969	7328	9267	9503
Hill, W. W.					Hiromori, J.				
678					9263				
Hilton, D. A.					Hirose, Y.				
1428	2846	9744			403	2418	3033		
Himes, D.					Hirschfield, J.				
5745					557				
Himmel, L.					Hisada, T.				
346					5927				
Hines, C. R.					Hishinuma, N.				
4413					8202	9461			
Hines, J.									
2516									

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Hislop, J. S. 3461 3790 8387 8926 9284 9716 9721</p> <p>Hoch, F. L. 9923</p> <p>Hoede, D. 2838 7408 8159 8914 9417</p> <p>Hoffman, B. W. 9125 9538 9865</p> <p>Hoffman, C. M. 2648 4263 6021 6030 6036 6048 6951 7909 8100 8288 8289 8291 10032 10361</p> <p>Hoffman, E. 7059</p> <p>Hoffmann, W. 2657</p> <p>Hoffmeister, W. 226 2728</p> <p>Hofler, H. 7303</p> <p>Hofstetter, K. J. 5403</p> <p>Hogdahl, O. T. 1335 1641 1945 3482 5359 5873 6228 9863</p> <p>Hohlein, G. 10023</p> <p>Hohler, P. 9773</p>	<p>Holden, W. 9973</p> <p>Holland, H. D. 9393</p> <p>Holland, W. D. 692 1584 1655</p> <p>Holland, W. W. 1478</p> <p>Hollander, J. M. 1795 2559 2579 2688 4280</p> <p>Holler, P. 9294</p> <p>Holloway, I. 9739</p> <p>Holm, D. M. 1604 2949 3970 3977 5417 5752 5769 6456 6589 6752 7045 7162</p> <p>Holm, V. 6673</p> <p>Holm-Hansen, O. 160</p> <p>Holmes, A. 10127</p> <p>Holmes, T. H. 550</p> <p>Holt, J. B. 346 1483 8416 8805</p> <p>Holtzman, R. B. 1439</p>
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ACTIVATION ANALYSIS—AUTHORS

Holzl, J. 1534						Hornsby, J. B. 2433					
Honda, M. 7981 9755						Horsley, J. 7406					
Honda, Y. 5926						Horwood, J. L. 213					
Hongo, S. 6860 10288						Hoshino, O. 8802					
Honjo, T. 5776						Hosohara, K. 211 571 572 1127 1385					
Hood, D. W. 273 422 586 2848 4219 4255 9871						Hoste, J. 87 229 304 305 306 552 581 687 691 886 893 950 1064 1066 1085 1119 1211 1221 1388 1425 1500 1707 1735 1827 1841 1969 2430 2431 2497 2515 2610 2612 2613 2643 2715 3411 3485 3993 4254 5349 5363 5364 5381 5385 5398 5447 5730 5772 5808 5940 5961 5962 5963 5964 6043 6218 6354 6383 6394 6395 6398 6408 6446 6696 6723 6728 7006 7076 7226 7227 7254 7289 7325 7360 7395 7876 7930 7934 8055 8212 8836 8913 8981 9093 9128 9130 9131 9340 9571 9657 10372					
Hooton, B. W. 1951											
Hopkins, L. L. 9425											
Hopkinson, E. C. 996											
Hori, R. 1395 2973 3769											
Horie, K. 7981						Houston, C. D. 2505 3070					
Horiguchi, Y. 3773 6858 9037 9790						Houtman, J. P. W. 1825 2562 2755 6013 6019 6061 6592 6849 6924 6954 9710 10212					
Horn, M. K. 2107											
Hornnes, N. 405						Howard, P. K. 1917					
						Howes, A. D. 9246					

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Howes, J. E. 8980	Hughes, D. J. 746
Howie, R. A. 1977 7087 8927	Hughes, J. D. H. 5932 10067
Hoyte, A. F. 2720 6222 8179	Hughes, T. C. 1222
Hsia, R. C. H. 1108	Hugon, J. 9941
Hsieh, S. 5717 6405	Huizenga, J. R. 39 40 41 42 146 1076
Hsu, K. 1687	Hukai, Y. 1898
Hsu, P. L. 5437	Hull, D. E. 696 1258 1670 1738
Huang, H. M. 5437	Hull, R. L. 3355
Huaringa, M. 230	Hulse, N. D. 10075
Hubner, U. 649	Hume, D. N. 71
Hudgens, J. E. 231 232 233 234 617 1357	Hummel, R. L. 1737
Hudspeth, E. L. 10046	Hummel, R. W. 235 236
Huey, J. M. 10219	Humphries, S. 8986
Hughes, C. A. 10139	Hunt, L. H. 1979

ACTIVATION ANALYSIS — AUTHORS

<p>Hunt, L. P. 1803 5347</p> <p>Hunt, S. E. 9046</p> <p>Hure, J. 38</p> <p>Hurst, M. E. 9730</p> <p>Hutchin, W. H. 719</p> <p>Hutchinson, W. P. 237</p> <p>Hyche, C. H. 10241</p> <p>Hyche, C. M. 9695</p> <p>Hyodo, H. 3341</p> <p>Ibert, E. 1033 1058* 1712 1721 1912</p> <p>Ichijima, I. 6856 9035</p> <p>Ichikawa, M. 9655</p> <p>Ichimiya, T. 7870</p> <p>Iddings, F. A. 348 1437 2518 2519 6975 7120 7392 9026 9610</p>	<p>Ideno, E. 779 1155 1693</p> <p>Iio, M. 6853 7993 9032</p> <p>Ijima, H. 9045</p> <p>Ikeda, N. 2800 7906</p> <p>Ikeda, R. M. 10116</p> <p>Ikeda, S. 805</p> <p>Ikemoto, S. 5927</p> <p>Ikeya, M. 2804</p> <p>Ii, K. W. 7916</p> <p>Iiliff, T. L. 2664</p> <p>Illsley, C. T. 2549</p> <p>Imahashi, T. 8181 9263 9904</p> <p>Imai, I. 7019</p> <p>Imai, S. 5924</p> <p>Imai, T. 1679</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Imamov, T. K.	8114	Ionov, V. P.	1227	10411				
Imamura, K.	8402	Iorgulescu, A.	9366					
Imamura, M.	7981	Iovhev, M.	9784	10155				
Imoto, M.	5872	Iredale, P.	238	1136				
Inamoto, K.	6857	Irving, G.	742					
	9036	Irving, H.	239	240	478	526		
Inarida, M.	9655	Isabaev, E. A.	8371					
Industrial Heating.	10374	Isaeva, E. A.	869	1223				
Ingamells, C.O.	9629	Isenhour, T. L.	1580	1984	1985	2514	3741	
Ingels, O.	6715		4397	5733	6046	6380	7034	
Inoue, T.	9322		7904	9070	9544			
Inoue, Y.	193	Ishibashi, N.	1514					
Inouye, T.	7114	Ishida, K.	1391	3414	9650			
	7221							
	8977	Ishihara, M.	1723					
Inoyatov, N. S.	9526	Ishii, D.	403	1510	2418	3033	8040	
International Atomic Energy Agency.	10265		9179	9180	9240	9241	9292	
			9444	10053	10346			
International Atomic Energy Commission.								

ACTIVATION ANALYSIS—AUTHORS

<p>Ishikawa, H. 7297 9931</p> <p>Ishimori, T. 1019</p> <p>Ishizuka, Y. 9895</p> <p>Islamov, T. 5857 6200 7134</p> <p>Isono, H. 7996 9318 9336</p> <p>Isotopes Radiation Technology. 9487</p> <p>Isotopes. 1405</p> <p>Isotopics. 582</p> <p>Ispas, M. 9848</p> <p>Israel Atomic Energy Commission. 2603 8873</p> <p>Isserow, S. 58</p> <p>Istvan, P. 1695</p> <p>Itani, M. 4302</p> <p>Ivanets, V. N. 10014</p> <p>Ivanov, G. V. 7118 7119</p>	<p>Ivanov, I. N. 10003 10008 10011 10012 10016</p> <p>Ivanov, L. I. 2660</p> <p>Ivanov, V. A. 9299</p> <p>Ivanova, V. F. 905</p> <p>Iwai, M. 5386</p> <p>Iwai, Y. 7316</p> <p>Iwamoto, N. 8388</p> <p>Iwasaka, T. 5872</p> <p>Iwasaki, S. 9237</p> <p>Iwase, T. 6853 7993 9032</p> <p>Iwashima, K. 999 7887</p> <p>Iwashita, F. 5425</p> <p>Iwata, S. 7357 8879 9040 9068 9324 9671</p> <p>Iya, V. K. 2473 8077</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Iyer, R. K.	Janczyszyn, J.
9621	3335 6325 6844 6973 7351 7387 9750 10081 10330 10356 10426
Izawa, M.	
9650	Janke, J.
Jackson, A. L.	1704
6360 7042	
Jacobson, A.	Janot, P.
938	5765
Jacobson, E. C.	
1803 2480 2496	Jansen, C.
	7137
Jacquemin, R.	
5989	Janssen, R.
Jaffrezic, H.	10306
10422	
Jagannadha Rao, N.	Jaskolska, H.
7375 9621	210 248 249 1133 1135 2444 10196
Jagoutz, E.	
9811	Jauho, P.
James, J. A.	9609
242 243 244 245 246 583	
James, L. R.	Jeffery, P. G.
1041	1677 1961 3948 9104
Jamieson, J. M.	
8036	Jenkins, E. N.
Jamin-Changeart, F.	250 251
1621	
	Jenkins, R.
	10267
	Jenkins, R. W.
	9612 10116
	Jenkins, W.
	6744
	Jenne, E. A.
	10141
	Jerchel, D.
	437 438

ACTIVATION ANALYSIS – AUTHORS

Jerome, D. Y.						John, J.				
5718	6584	8235				8014	10256	10387		
Jervis, R. E.						Johnels, A. G.				
252	325	326	349	584		9947				
706	726	970	1736	1737						
2143	2548	2666	5981	6018		Johnson, D. G.				
6041	6210	6307	6308	6314		3960				
6315	6835	6863	6952	7017						
7031	7348	7383	7384	7430		Johnson, F. F.				
8809	9044	9072	9191	9359		1680				
9394	9396	9397	9494	9495						
9602	9604	10395				Johnson, G. F.				
Jessen, P. L.						1041	10275			
316	324	1956	7027							
Jester, W. A.						Johnson, J. F.				
4285	5510	6710	6984	8024		860				
9563	9631									
Jewett, G. L.						Johnson, J. O.				
1803	2480	2496				9944				
Jimenez, A. T.						Johnson, P.				
1464						2969				
Jimenez, P.						Johnson, P. F.				
1809	1912	2707				6846	7425			
Jinno, K.						Johnson, R. A.				
8040	9180	9240	9241	9292		732	1355	1627	2252	3809
9444	10053	10346				7044				
Jirlow, K.						Johnson, R. G.				
1910	5860	6694				45	46	49		
Johanning, H.						Johnston, J. E.				
6741						10352				
Johansen, O.						Johnston, W. H.				
50	2739	3079	3961	4195		632				
5713	6212	7913	8060	8824						
8987	9169					Joly, M.				
						1105				
Johansson, S. V.										
9647										

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Jona, F. 881	Juliano, P. O. 5551
Jones, A. G. 10384	Juna, J. 7285 7361 9506
Jones, D. W. 8325	Junkins, R. L. 3748
Jones, J. D. 9923 9969 10119	Junod, E. 1706 1819 2557 2587 6690 8875 9015
Jones, L. V. 1609 1637 2591 2596	Jurisch, M. 10105
Jones, R. E. 274 275 1956 8281 9162	Jurkiewicz, L. 9193
Jones, W. T. 2433	Jurs, P. C. 4397 7034 9544
Jordan, E. D. 1336 1337 1423 7286	Kadisov, E. M. 9782
Journal American Medical Association. 9905	Kahn, M. 6374 10198
Jovanovic, S. 8236 8413 10097 10144	Kahng, M. W. 738
Jover, P. 8835	Kaiho, S. 9263
Jowanovitz, L. S. 727 907	Kaimin, I. V. 10403
Jozefowicz, K. 923	Kaindl, K. 1703 3360 7877
Jugelt, P. 9804	Kaipov, R. L. 1430 10409
Juliano, J. O. 630 1782 2963 4215 5551	

ACTIVATION ANALYSIS—AUTHORS

Kaiser, D. G.	254	811	844	1001	1314	Kamath, P. R.	2984				
	1692										
Kaiser, W.	8968					Kameda, H.	7993				
Kaji, S.	9263					Kameda, K.	757	1257			
Kakas, M.	9098					Kamegaya, K.	7222				
Kalashnikova, V. I.	9585					Kamei, M.	7894				
Kalicheva, I. S.	1493	2474				Kamemoto, Y.	215	604	608	774	775
							776	777	945	956	957
Kalinin, A. E.	7165						992	994	995	997	998
							1003	1004	1009	1139	1140
Kalinin, A. I.	799	870	2523	3383	7164		1176	1200	1261	1272	1299
	7166	7167	7168				1300	1349	1374	1403	1409
							1413	1418	1420	1491	1497
							1533	1631	1682	1693	
Kalmar, E.	8825					Kamenev, E. A.	10025				
Kalnach, L. P.	7133					Kami, H.	9214				
Kamada, H.	2711					Kaminishi, T.	631				
Kaman Aircraft Corporation.	8279					Kaminski, J. W.	7899	8323			
Kaman Nuclear.	658	2576				Kamyshev, B. S.	10149				
Kamata, S.	1514					Kanabrocki, E. L.	1141	2125	2535	3710	6922
							8390	9051	10283		
						Kanij, J. B. W.	2755				

ACTIVATION ANALYSIS – BIBLIOGRAPHY

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|---|---|
| <p>Kant, A.
255</p> <p>Kantor, S. A.
3462</p> <p>Kapitza, S. P.
9380</p> <p>Kaplan, E.
938 1141 2125 2535 3710
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1218</p> <p>Kaplan, L.
256</p> <p>Kaplan, S. A.
6010</p> <p>Karajanova, G. I.
6994 8321</p> <p>Karalova, Z. K.
4391</p> <p>Karasev, B. V.
904 1062 1393</p> <p>Karev, V. N.
7214 7923</p> <p>Karimkulov, D. V.
8379</p> <p>Kark, R. M.
1311</p> | <p>Karlicek, V.
5774 8253</p> <p>Karlik, B.
1821</p> <p>Karnauckova, N. M.
6994 8321</p> <p>Karpukhin, O. A.
2564 3751</p> <p>Karpunin, A. M.
10209</p> <p>Kartashev, E. R.
5317 7342 10002 10005 10015
10018</p> <p>Karttunen, E.
7915</p> <p>Kashkarov, L. L.
6822 8006 9528</p> <p>Kashuba, A. T.
8238 10096</p> <p>Kaspavec, I.
10147</p> <p>Kasperek, K.
7224 8823 8960 9429 10152
10191</p> <p>Kasymov, A. K.
5621 8931 9277 10055</p> <p>Katakura, Y.
5393</p> |
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ACTIVATION ANALYSIS — AUTHORS

Kato, H.						Kawakami, H.				
516	9507					9371	9634	9635		
Kato, M.						Kawakami, Y.				
9045	9919					6859	9038	9160		
Kato, P. H.						Kawamoto, J.				
15						9801				
Kato, R.						Kawamura, S.				
4240						8254	9650			
Kato, T.						Kawashima, T.				
1402	1481	1765	2744	5308		585	602	1142	1208	2502
5311	5379	5868	6351	6676		2920	3770			
6677	6678	7920	8910	9220						
9221	9298	9302	9303	9920		Kay, M.				
Kato, Y.						10344				
6727	8254					Kaysser, B.				
Kaufhold, J.						9925				
10253						Kazachenkov, Y. N.				
Kauranen, P.						10015	10016			
1630						Kazyuk, G. V.				
Kawabuchi, K.						9788				
1125	1385	3414				Ke, C. H.				
Kawai, H.						531	1096	1131		
5926						Keane, J. R.				
Kawai, J.						7123				
9237						Keays, R. R.				
Kawai, K.						5717	6405	9474	9916	10092
2804	8929					Kedrov, A. I.				
Kawai, M.						9231	9782			
1307						Keenan, C. W.				
Kawai, N.						1351				
7177										

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Keenan, J. A. 10117	Kempchinsky, P. C. 3073
Keenan, R. G. 2539 2937	Kempe, W. 8967
Keepin, G. R. 3841 6713 8174	Kenna, B. T. 1051 1112 1946 2568 4228 4274 6062 6374 7957 8251 9539 10198
Kegel, G. H. R. 6371 8276	Kenna, L. A. 1051
Kehler, P. 961	Kennedy, E. J. 10398
Keimatsu, S. 2711	Kennedy, J. H. 944 2938
Keisch, B. 1326 2546 8095 9560	Kennedy, J. W. 1777
Kelen, E. 1617	Kennington, G. S. 2756 4281
Keller, K. A. 7946	Kenny, A. D. 9749
Keller, O. L. 7192	Kent, R. A. R. 1
Keller, R. A. 2680	Kerdel-Vegas, F. 7089
Kellershohn, C. 570 882 1105 1143 1278 3745 5998 6304 6932 7084 7240 9414 9780 10307	Kernforschungsanlage, Julich, West Germany. 5362
Kelley, W. D. 952	Kerr, M. F. 706 9316
Kemp, D. M. 257 587 1145	Kerrigan, F. J. 3776

ACTIVATION ANALYSIS – AUTHORS

<p>Kertesz, L. 4190 5945</p> <p>Kerwick, W. 1590</p> <p>Kessler, W. V. 4329</p> <p>Ketelle, B. H. 258</p> <p>Keynes, R. D. 259 260</p> <p>Khaidarov, A. 9636 10080</p> <p>Khaidarov, A. A. 924 1162 1550 1551 1553 1554 1555 1556 1557 1585 3362 3385 5857 8125 8126 8128 8360 8361 8362 8816 10409</p> <p>Khaitov, B. K. 8127</p> <p>Khakdarov, N. A. 7134</p> <p>Khakimov, M. 5621 9097 9985 9986 9987 9988 9989 9990 9991 9992 9993</p> <p>Khalifa, K. 5729</p> <p>Khalikov, T. 6301</p> <p>Khalin, N. F. 7214</p>	<p>Khamidova, R. V. 8364 8978</p> <p>Khamrabaev, I. K. 9515</p> <p>Khan, A. A. 2984</p> <p>Kharabadze, N. E. 3757 9440</p> <p>Kharkar, D. P. 8239 10099</p> <p>Kharkov, O. N. 8973</p> <p>Kharlampovich, S. I. 9879</p> <p>Khasanov, A. S. 9928</p> <p>Khatamov, S. 8346 8347 8364 8365 8978 10171</p> <p>Khera, A. K. 7896 9707 10250</p> <p>Kholin, A. I. 1559</p> <p>Kholmatova, T. 8377</p> <p>Khotamov, S. 6295</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Khristianov, V. K.						Killick, R. A. (continued)				
904	1062	1393	2303	6366		366	601	792	1146	1147
						1182	1183	1184	3530	
Khudaiberganov, A.						Kim, A. P.				
3369	3370	3371	3760			8274	9798			
Khudaiberganov, U.						Kim, C. K.				
9636	10286					636	740	953	1137	1201
Khudaibergenov, U.						2551	3342	3344	6080	7982
8110	8115	8154	8378	9928		8894	10252			
Khusainova, O.						Kim, J. I.				
8373						1749	1969	2610	2612	2613
						3342	3713	7337	9649	9850
						9873				
Khusnutdinov, R. I.						Kim, Y. S.				
2979	3472	3473	8047	8118		4296				
8119	8366									
Kiba, T.						Kimberlin, J.				
4311						3476	7107			
Kienberger, C. A.						Kimel, W. R.				
261	9376	9592				7115	8963			
Kienle, P.						Kimura, K.				
862						916	5926	7906		
Kiesl, D. W.						Kimura, Y.				
9026						5926				
Kiesl, W.						Kinbara, A.				
982	1264	1273	1526	1564		1496				
2296	2601	2950	4268	6957						
7304	7306	9661	9723	9861		King, E. R.				
10036	10416	10417				136	487	488	489	730
Kigoshi, K.						King, R. W.				
411	1212	1401				3027				
Kikuchi, T.						Kinsey, R. J.				
9067						1590				
Killick, R. A.										
221	262	363	364	365						

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Kinsley, M.					Kist, A. A. (continued)				
1860					8355	8356	8357	8358	8359
					8365				
Kirchmann, R.					Kist, S. M.				
459	1484	2773	5989		8339				
Kirchner, J. F.					Kittl, R.				
1586					10159				
Kireev, V. A.					Kittleman, L. R.				
6705	9896				10332				
Kirk, P. L.					Kiv, I. I.				
1149	6026				8351				
Kirnozov, F. F.					Kizane, G. K.				
905					10273				
Kirst, A.					Kjelberg, A.				
10365					2754				
Kiryanov, G. I.					Kjellin, K. G.				
2561					1287	1421	6009		
Kishi, H.					Kjensli, O.				
9168					6687				
Kishikawa, T.					Klaus, E. E.				
9061	9663				4285	5510			
Kishitani, M.					Kleckova, E.				
4240					1588				
Kishore, R.					Klein, E.				
10397					9434				
Kiss, I.					Klein, H. J.				
664					10152				
Kist, A. A.					Kliment, V.				
1207	1548	1769	3388	3395	9381	10254			
3736	6295	8124	8130	8338	Kline, J. R.				
8339	8340	8341	8342	8343	2552	3005	3345	7988	7989
8345	8346	8347	8348	8349	8872	9051			
8350	8351	8352	8353	8354					

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Klisane, D. A. 9351 9352</p>	<p>Ko, W. H. 4347</p>
<p>Klopper, E. 1602 2761</p>	<p>Kobaladze, M. G. 1329</p>
<p>Kluger, F. 2296 9723 10036</p>	<p>Kobayashi, A. 5327</p>
<p>Klyucharev, A. P. 8412 9001</p>	<p>Kobayashi, M. 756 806 1325 1338 1468 1469 1700 3771 3773 5749 5920 6045 6859 8405 9038 9045 9201 9202 9785 9976</p>
<p>Knieriem, H. J. 8823 9245</p>	<p>Kobayashi, Y. 9503</p>
<p>Knight, A. 6358 6368 9760 9761</p>	<p>Koch, B. 1848</p>
<p>Knight, V. 9761</p>	<p>Koch, H. 1130 1633 1848 2723 2724 2725</p>
<p>Knolle, K. 4289</p>	<p>Koch, H. J. 263</p>
<p>Knorr, J. 9804</p>	<p>Koch, R. C. 588 643 676 705 1326 2546</p>
<p>Knotek, O. 1610</p>	<p>Kocherov, N. P. 3394</p>
<p>Knowles, F. E. 1982</p>	<p>Kochevanov, V. A. 7117 8167 8184</p>
<p>Knox, R. J. 5384</p>	<p>Kodiri, S. 7366 8090 8186 9300 9522 9910</p>
<p>Knudson, A. R. 5543 8891</p>	<p>Kodochigov, P. N. 1227 2306 6720 7082 7083 8819 10403</p>
<p>Knutson, R. A. 555</p>	
<p>Knypl, E. T. 8384</p>	

ACTIVATION ANALYSIS—AUTHORS

Koehler, W. 1958	Kolar, R. D. 1785
Koeman, J. H. 9313 10210 10281	Kolaski, H. 7090
Koeppe, P. 9019	Kolchina, A. G. 978
Koga, T. 5926	Kolesov, G. M. 1493 2474 6822 9838
Kohler, W. 2625	Kolodziej, B. J. 9791
Kohman, T. P. 3934	Kolomiitsev, M. A. 2957
Kohn, A. 264 265 266 896 1339 1473 1503	Komarov, A. N. 7252
Kohn, H. W. 267	Kominek, Y. 10129
Kohn, R. E. 1590 1591	Komiya, K. 6851 6852 9030 9031 9332
Kohn-Abrest, M. E. 3726	Konami, Y. 7920
Koide, M. 8074	Konanykin, L. V. 7924
Koizumi, M. 9067	Kondo, M. 5872
Kojima, C. 631	Kondo, Y. 2800 6854 7315 7316 9033 9398 9504
Kojima, M. 9085	Konecny, K. 7285 7361 9506

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|---|--|
| <p>Konig, H.
142 143 268 269 529</p> <p>Konishi, J.
2440 9637</p> <p>Kono, T.
4240</p> <p>Konstantinov, I. O.
9413 10406</p> <p>Konstantinov, L. V.
9101</p> <p>Kopineck, H. J.
2615 9294 9773</p> <p>Kopp, E.
5592</p> <p>Korbel, K.
3335</p> <p>Kornberg, H. A.
2738 2971</p> <p>Korobko, M. I.
4196</p> <p>Korobov, S. S.
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10093</p> <p>Korotkova, V. A.
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9994</p> <p>Korshunov, Y. F.
9642</p> | <p>Korthoven, P. J. M.
5740 6330 9365</p> <p>Korts, R. F.
9792</p> <p>Kosciukowa, B.
10245</p> <p>Koshelev, I. P.
10025 10149 10150 10151</p> <p>Koshelev, I. V.
9411</p> <p>Koshimizu, Y.
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9192</p> <p>Kosta, L.
2882 7413 7927 9010 9278
9333 9660 9912 9948 9965</p> <p>Koster-Pflugmacher, A.
2678</p> <p>Kostin, V. L.
9997</p> <p>Kostsyuk, B.
10129</p> <p>Kotas, P.
9742</p> <p>Kotelnikov, G. A.
6053 6072</p> <p>Kotelnikov, L. A.
7949 8192 9424</p> |
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ACTIVATION ANALYSIS—AUTHORS

<p>Kotsen, M. E. 10026</p> <p>Kott, J. 5774 8253</p> <p>Kovacina, T. A. 1568</p> <p>Kovalenko, L. I. 7923</p> <p>Kovanic, P. 7918</p> <p>Kowalski, B. R. 6046</p> <p>Kowalski, E. 10314</p> <p>Koyama, M. 5919</p> <p>Kozhevnikov, D. A. 5554</p> <p>Kozhogulov, O. 9700</p> <p>Koziorowski, J. 5952</p> <p>Kozlov, V. A. 9879</p> <p>Kozminska, D. 1245 9268</p> <p>Kozuka, H. 112 7996 9318 9336</p> <p>Kraay, C. M. 6570 7873</p>	<p>Kramer, H. H. 1150 1334 1340 1790 2382 2662 2676 2690 2789 5953 6393 6711 7111 7141 8320 8332</p> <p>Kramer, J. 2779</p> <p>Kraner, H. W. 2694 2762</p> <p>Krasikova, M. I. 9103</p> <p>Krasivina, L. E. 8109</p> <p>Krasnoperov, V. A. 10149 10150 10151</p> <p>Krasnoschekov, G. P. 9693</p> <p>Krasnov, N. N. 8087 8170 9413 10406</p> <p>Kratochvilova-Talpova, H. 1948</p> <p>Krauch, H. 684</p> <p>Krause, G. 10120</p> <p>Krauss, O. 6069</p> <p>Kravtsov, V. V. 7411</p> <p>Kreienbuhl, L. 1159</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

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|--|--|
| <p>Krick, M. S.
10378</p> <p>Krinninger, H.
10224</p> <p>Krishnamoorthy Iyer, R.
1596 1903 2602 7375</p> <p>Krishnamoorthy, K. R.
9621</p> <p>Krishnan, S. S.
3065 5750 6035 6311 7086
8903 9079 9081 9243</p> <p>Kristak, J.
7220</p> <p>Kristensen, L. V.
9354 9355</p> <p>Kritalugsana, S.
7099</p> <p>Kritsuk, G. S.
8928</p> <p>Krivanek, M.
2358 3396 4306 5984 6024
6294 6337 6692 6825 7174
9735 9978</p> <p>Krivit, W.
657 1799 7188</p> <p>Krivokhatskii, A. S.
5318</p> <p>Krober, M. S.
2969</p> <p>Kroon, J. J.
10057</p> | <p>Krueger, W. B.
9791</p> <p>Kruger, P.
652 699 2554 6927 6928
8023 8327 8881 9153 10373
10392</p> <p>Kruglyi, M. S.
8186</p> <p>Krylov, B. E.
3362</p> <p>Kryzhenkova, N. A.
8124 8343 8349 8979</p> <p>Kryzhnenkova, N. I.
8359</p> <p>Kubota, M.
2464 9283 10108 10109 10284</p> <p>Kuchava, N. E.
3757 7420 9532</p> <p>Kudinov, B. S.
5782 10315 10316</p> <p>Kudinova, A. A.
10411</p> <p>Kudo, K.
1018 2887 4298 5753 5922
5928 8202 9461</p> <p>Kuehne, F. J.
3075 5383</p> <p>Kuehner, E. C.
8328</p> <p>Kuhn, W. K. G.
6461</p> |
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ACTIVATION ANALYSIS—AUTHORS

<p>Kuin, P. N. 6580 10063</p> <p>Kukhareenko, N. I. 1430</p> <p>Kukoc, A. 7945 8296</p> <p>Kukula, A. F. 1519</p> <p>Kukula, F. 2358 2878 3396 3975 4306 5335 5984 6024 6294 6337 6667 6825 7174 9007 9120 9405 9742 9836</p> <p>Kulak, A. I. 270 544 545 662</p> <p>Kulichenkoy, A. A. 10006</p> <p>Kulus, E. 7236 10044</p> <p>Kumamaru, T. 7295 9247</p> <p>Kumamoto, T. 7991</p> <p>Kumamoto, Y. 8254</p> <p>Kuncir, J. 8998 9005 9464 9627 10078 10214 10423</p> <p>Kunin, L. L. 8971 9380</p> <p>Kuno, H. 2437</p>	<p>Kuper, A. B. 4347</p> <p>Kuras, R. A. 9923</p> <p>Kurenko, E. Y. 8814 9090 9997</p> <p>Kurihara, H. 8831</p> <p>Kuriyama, S. 5922</p> <p>Kurochkin, S. S. 1358</p> <p>Kurochkin, Y. Y. 8863</p> <p>Kuroda, P. K. 5716</p> <p>Kuroda, R. 571 572 575 820 922 1127 1128 1385 2283 3414</p> <p>Kurosawa, R. 1320 1672 7293 7331</p> <p>Kurosu, H. 1338 9202</p> <p>Kusaka, Y. 271 272 589 628 827 1111 1152 1202 1267 1315 1656 1879 3764 5566 5924 6352 6436 6842 6850 7893 9029 9463</p> <p>Kusch, W. 621 1859</p>
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ACTIVATION ANALYSIS – BIBLIOGRAPHY

<p>Kusugi, T. 8041</p>	<p>Kutsev, V. S. 75</p>	<p>Kuusi, J. 6977 8911 9301 9609 10071</p>	<p>Kuvik, V. 1974 5426</p>	<p>Kuwahara, H. 7332 8008</p>	<p>Kuykendall, W. E. 273 590 1359 3461 7872 8926 9330 9538 9865 9951</p>	<p>Kuyper, E. 107</p>	<p>Kuzina, A. F. 10403</p>	<p>Kuzmichev, A. P. 9983</p>	<p>Kuzminskii, A. S. 3729</p>	<p>Kuznetsov, K. F. 2750</p>	<p>Kuznetsov, R. A. 870 2523 3383 7117 7164 7165 7166 7167 7168 7949 8167 8184 8192 9424 10412 10413 10414</p>	<p>Kuznetsova, G. A. 2717</p>	<p>Kuznetsova, R. A. 799</p>	<p>Kwiecinski, S. 2934 3335 6325 6844 7399 9505</p>	<p>La Fleur, P. D. 7005 7154 7182 7960 7964 8020 8027 8070 8420 8923 9477 9936</p>	<p>La Roche, G. 1470</p>	<p>Laben Laboratori Elettronici. 8280</p>	<p>Lacombe, P. 7200</p>	<p>Lacomble, M. 7290 7291 7917</p>	<p>Laconi, A. 2964</p>	<p>Lacroix, M. J. 6594</p>	<p>Lacroix, R. 10088</p>	<p>Lada, W. 10064</p>	<p>Lag, J. 9949</p>	<p>Lahaie, G. 1890</p>	<p>Laing, K. M. 274 275</p>	<p>Lajos, V. 1695</p>
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ACTIVATION ANALYSIS – AUTHORS

Lakshmanan, S.						Langerova, I.				
738	2141	2665	2722	5407		1660	3334			
5743	5747	7204	7985							
Lally, A.						Langham, W. H.				
10336						4227				
Lam, C. F.						Langheinrich, W.				
2529	2704					887	888			
Lamb, J. F.						Langhoff, J.				
2688	5768	6588	8256	8329		226	1345			
8330	9632									
Lambert, J. P. F.						Laptev, V. G.				
6359	6940	7908	8422	9166		9582				
9410	9425	9620	10268							
Lambrecht, R. M.						Laranjeira, M.				
6321						37				
Lambrev, V. G.						Larrabee, G. B.				
7388	9573	9623	9654			2376	3514	10117		
Lamm, A.						Larsen, R. P.				
1503						7397	8808			
Landolt, R. R.						Larson, Q. V.				
9747						72				
Landry, J. W.						Larson, R. E.				
3074						1606	6936	6988	9428	9678
Landstrom, O.						9694	9717			
2852	3808	5771	5785	6965						
Lanfranco, G.						Lasch, J. E.				
5344	5345	6323	9968			439	1356	1424		
Lang, W.						Lastov, A. I.				
5988						9982				
Lange, H. H.						Laul, J. C.				
9527						6972	8869	9118	9270	9474
						10092				
						Laune, J.				
						7863				

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Laurent, A.					Le Hericy, J.				
6690					1378	6410	6412	6568	
Lauttman, R. G.					Le Poec, C.				
21					570	2558	8285	9021	9163
Laverlochere, J.					Le Quinio, R.				
637	789	833	834	835	9941				
836	853	872	890	901					
1045	1046	1165	1360	1667	Le Strat, J.				
1706	1759	1819	1983	2557	5444				
5444	5593	6987	7121	7151					
7313	8851	8905	9020	9420	Leafer, M. A.				
9422					5751				
Laverty, A.					Leavitt, W. Z.				
3073					446				
Lavrukhina, A. K.					Leboeuf, M. B.				
1441	1493	2474	3754	5759	509	2599	3117		
6822	7235	7424	8006	9838					
Law, J.					Lechtman, H. N.				
7392					1834	9027			
Law, S. L.					Leclerc, P.				
9478					1503				
Lawrence Radiation Laboratory.					Leddicotte, G. W.				
2801					43	54	55	56	79
Lawson, D.					80	81	82	83	277
2525	6948	6974			278	279	280	281	282
					283	286	287	288	289
Lawson, R. C.					290	291	292	293	294
8828					295	296	297	298	300
					329	640	641	654	685
Lazovskii, I. R.					722	735	763	819	859
8907					946	963	964	973	974
					981	1031	1035	1039	1060
					1088	1189	1190	1268	1316
Lazzarini, E.					1350	1351	1361	1476	1635
1415					1638	1674	1709	1725	1727
					1728	1746	1796	2931	3483
					6028	6051	6926	6934	7137
					7184	7218	7356	8902	9083
					9749	10120	10399		
Lbov, A. A.					Lee, B. K.				
591	784	921	1007		8245	9258	9304		

ACTIVATION ANALYSIS – AUTHORS

Lee, C.						Lehman, R. L.				
2888	9644					1495				
Lee, C. J.						Lehtinen, A.				
3344						8911				
Lee, D. M.						Leibetseder, J.				
5768	6588	8329	8330	9013		5994	9262			
9632										
Lee, H. M.						Leimdorfer, M.				
5941						5261				
Lee, J.						Leipunskaya, D. I.				
6307						301	1430	1445	1558	2617
						2750	3366	3368	3462	8278
						8817	9088	9452	10040	
Lee, M. B.						Leliaert, G.				
1033						302	303	304	305	306
Lee, N. D.						689	866	880	893	986
1351						1156	1234			
Lee, N. K.						Lemberg, I. H.				
5323						5435				
Lee, S.						Lemberg, I. K.				
786						4197				
Lee, W.						Lembert, I. K.				
931						149				
Lee, Y. H.						Lenchenko, V. M.				
5323						1561				
Lee, Y. Y.						Lenihan, J. M. A.				
5991						134	307	308	309	310
						406	593	638	1461	1669
						2581	2719	2943	2985	3477
						3490	3503	3512	3745	5847
Legeon, E.						6027	6920	7084	7085	7190
9307						8918	9780			
Lehman, A.						Leodolter, I.				
10239						9554				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Leonard, B. H.						Levine, A. S.			
4251						2546			
Leonhardt, W.						Levine, C. A.			
655	1157	1158	1343	1344		1160			
1675	7079								
Lepetit, H.						Levitin, V. V.			
2802	4260					9970			
Lepoec, C.						Levri, E.			
1105	1143	1824	6304			9443			
Lerch, P.						Levstek, M.			
197	1159					9912			
Lesbats, A.						Levy, H. B.			
2550	8088	8162				5587			
Letov, V. N.						Lewis, J. E.			
9693						399	979		
Leu, M. L.						Lewis, J. N.			
9686	9719					52	53		
Leushkina, G. V.						Lewis, M. N.			
2385	3384	6454	7925	8091		491			
8108	9995					Lewis, P. R.			
Levander, O.						259	260		
7908						Ley, J.			
Leventhal, L.						1779			
1478						Liden, K.			
Leveque, M. P.						6746			
311						Lieberman, K. W.			
Leveque, P.						2991	5775	7386	8332
38	104	312	313	332		Liebscher, K.			
756	1503	7381				6837	9776	10048	
Levi, H.						Lieser, K. H.			
227	228					3105	5422	8991	

ACTIVATION ANALYSIS—AUTHORS

Liessens, J. L.						Lininger, R. L.				
7226						6365				
Lightowlers, E. C.						Linkevich, V. Z.				
1161	1269					8108				
Lihl, F.						Linn, T. A.				
3418	4308					5958	6050	7311	9543	
Liljenzin, J. O.						Linnenbom, V. J.				
9974						315	6585	6843		
Lima, F. W.						Linstedt, K. D.				
1650	2904	2930	5358	5850		2554	6928	8327	8881	9153
5851	6039	6674	7407	7422						
8209	8211	8423	8424	8803		Lipp, H. H.				
9116						7994				
Lin, C. Y.						Lipschutz, M. E.				
1096	1131					6972	8869	9118	9270	
Lin, S. C.						Lisk, D. J.				
5323						6437				
Linacre, J. K.						Lisovskii, I. P.				
1853						7969	9579	9580	9795	9796
Lindfors, B.						9917	10293			
9609						Liu, C. L.				
Lindner, M.						8832				
828						Livingood, J. J.				
Lindstrom, D. J.						443				
8235						Livingston, H. D.				
Linekin, D. M.						1980	2573	3982	4267	6003
5977	6931	7186	8827			6455	7369	7370	8196	9596
						10121				
Linekin, G. L.						Ljunggren, K.				
8010						317	318	562	573	594
						682	791	1651	2563	7871
Ling, S. M.						8904	9947			
6010										

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Lloyd, K. W.						Logerquist, B. A. A.				
4321	4322					1572				
Lobanov, E. M.						Lohner, H.				
924	1162	1207	1546	1547		9805				
1548	1549	1550	1551	1553						
1554	1555	1556	1557	1561		Lombard, S. M.				
1585	1769	2385	2979	3088		5733	6380	7904	9254	9922
3089	3361	3362	3369	3370						
3371	3372	3384	3385	3386		Lomer, P. D.				
3388	3395	3464	3472	3473		1701	2527			
3736	3760	3766	4262	5320						
5581	5705	5706	5707	5857		Long, J. V. P.				
6295	6454	7132	7134	7229		319				
7925	8047	8091	8108	8109						
8110	8117	8118	8119	8120		Loos, R.				
8121	8122	8124	8125	8128		848				
8129	8130	8151	8153	8275						
8338	8339	8340	8341	8342		Lopatin, A. G.				
8343	8344	8345	8346	8347		9998				
8348	8349	8350	8351	8352						
8353	8354	8355	8356	8357		Lopovok, T. A.				
8358	8359	8360	8362	8363		1440				
8364	8365	8366	8367	8368						
8369	8370	8371	8372	8373						
8374	8375	8376	8815	8816						
9338	9492	9513	9516	9525						
9700	9797	9995	9996	10056						
Lock, C. J. L.						Lorenz, W. J.				
6735						9900				
Lockhart, L. B.						Loria, G.				
1123						759				
Loeillot, A.						Los Alamos Scientific Laboratory.				
815	879					5330				
Loepfe, E.						Loska, L.				
2481	3989	4309	5942	7160		3335	6325	6844	6973	7351
						7387	10081	10356		
Loeuillet, M.						Lott, M.				
1263	6593	7015	7106			9016				
Lofberg, R. T.						Lotzsch, W.				
7976	9443					7379				

ACTIVATION ANALYSIS—AUTHORS

Loucks, R. H.	6921	9004	9357			Luchkin, B. R.	9788			
Lovachev, L. N.	9508					Lucknitsky, V. A.	6994	8321		
Love, D. L.	634	3333	5376			Ludwig, T. G.	4232			
Loveridge, B. A.	177	320	467	595	9447	Lukac, P.	5859	6847	9450	
Lovering, J. F.	656	1180	1494	1498	1502	Lukens, H. R.	323	507	599	659
	3774	5719	6739	7386	7990		1014	1163	1327	1424
	9775	9829	9840	10095			1620	1900	1947	2144
							2272	2350	2553	2595
Lovett, J. E.	321						2663	2696	3028	3072
							3101	4284	4314	5694
							6313	6344	6751	6953
							7068	7431	7879	7884
Lowe, K.	6402						7944	8135	9117	9205
							9442	9557	9606	9607
							9792	9793	9813	9906
							9946	10027	10256	10364
										10386
Lowe, L. F.	322	6226				Lumu, F. R.	9735			
Lowenhaupt, E. H.	4226	8801				Lundberg, M.	741	968	1512	
Lowman, F. G.	1970	5387				Lunde, G.	1205	2739	6023	6052
							8080	8392		7211
Lowman, J. T.	657	1799	7188			Lunden, A.	100			
Lubkowitz, J. A.	9960					Lundgren, F. A.	1864	8248		
Lucas, D. M.	7323					Lundgren, S.	919			
Lucas, H. F.	7061	9457	9803	9943	10070	Lupica, S. B.	6935	10333		

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Lushbaugh, C. C. 2422</p> <p>Lussie, W. G. 2530</p> <p>Lustinec, J. 2748</p> <p>Lutz, G. J. 1560 4224 6332 7016 7055 7155 7964 8037 8248 8394 8395 8414 8842 8916 8920 8921 8922 9479 10054 10328 10393</p> <p>Lutze, W. 8393</p> <p>Lux, F. 832 1525 2625 3988 6737 6947 10208</p> <p>Luyendyk, B. P. 10142</p> <p>Luzanova, L. M. 7380</p> <p>Lykins, J. H. 327</p> <p>Lyon, W. S. 735 1635 1642 1643 1847 1935 2600 2673 2682 5710 5974 6327 6935 7183 7352 7892 9009 9269 10333 10342</p> <p>Mac Arthur, I. R. 7172</p> <p>Mac Gregor, M. H. 917</p> <p>Mac Kenzie, J. K. 2251 2350 7944 9117 9689</p>	<p>Maccabee, H. D. 8900</p> <p>Macey, D. J. 9757</p> <p>Macharashvili, G. R. 9449</p> <p>Machiroux, R. 6444 8064</p> <p>Macke, J. F. 8914</p> <p>Mackintosh, W. D. 252 325 326 349 416 706 726 920 970 7017 7430 8028 8039</p> <p>Macklin, R. L. 327 8855</p> <p>Madan, P. B. 6717</p> <p>Madbouly, R. 9455 9726</p> <p>Maddock, R. S. 345 1164 1698 1733 6332 7055 8414 10054</p> <p>Madigan, S. B. 2782</p> <p>Madigan, S. C. 2790</p> <p>Maeda, S. 1338 3771 3773 6859 9038 9202</p> <p>Maeda, T. 4207 7282 8001</p>
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ACTIVATION ANALYSIS—AUTHORS

Maekawa, T. 9107 9108	Maksimovskii, Y. M. 9781
Maenhaut, W. 9132 9657	Malaby, K. L. 2480 2496 10394
Maes, K. 1828	Malenchanka, A. F. 9788
Maggiore, Q. 6008	Maleszewska, H. 5436
Magno, P. J. 1982	Maletskos, C. J. 8032 8131 9094
Magro, G. 5999	Mali, J. W. H. 6013
Mahdavi, A. 9559	Malikov, R. M. 8344
Mahler, D. J. 9924	Malinowski, J. 330 1761 1862
Mahlman, H. A. 80 289 329 1088	Malmberg, P. R. 8325
Mahoney, G. F. 10362	Malmfors, K. G. 385 8056
Mahony, J. D. 105 1318 1599 1831	Malmon, A. G. 1389
Mainz Universitat. 9409	Malvano, R. 895 1097 1098 1099 1167 1254 1406 1455 1456 1965 2970 3957 4201 5999 6008 6397 7399 9328 9505 9640
Major, A. 9134	Malyshev, V. I. 1885 2747 8043
Mak, B. K. 3783	
Makasheva, I. E. 149 869 1166 1223	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Malysheva, N. G.						Mantel, M.				
3376	5325	5779	5854	7862		1020	6983	7216	8333	10228
						10230	10433			
Mamadzhanov, F. I.						Mantescu, C.				
7171	7229	9525				1416				
Mamikonyan, S. V.						Manuel, O. K.				
10006						6208				
Mamonov, E. I.						Mapper, D.				
10006	10013	10014				468	469	470	471	472
Mamuro, T.						473	597	626	750	1168
9955	10156	10157	10323			1222	1275	1429	4253	7052
						9541	10098			
Mamynova, L. A.						Maracci, G.				
9581						4208				
Mandelbaum, M. M.						Marafuschi, A. M.				
8930						5378	6700	9288	9687	9688
						9794	10062			
Mandler, J. W.						Marangio, G.				
2104	2364	6971	7967	10391		7998				
Manhartsberger, H.						Marble, G.				
3397						2797				
Mani, R. S.						Marchart, H.				
2473						813				
Manney, T. R.						Marchetti, F.				
1078	1470					3740	5934			
Manri, T.						Marcus, J. H.				
6851	6852	9030	9031	9332		2539				
Mansour, M. M.						Marecek, J.				
1858						2741				
						Margosis, M.				
						9166	9620	10268		

ACTIVATION ANALYSIS—AUTHORS

Marinkov, L. 9098	Marshall, T. O. 9760 9761
Mark, H. B. 1129 2511 4410 7094 8319 9520 9787 9969 10119	Martin, A. 7336 7339 10326
Marker, R. C. 77	Martin, B. D. 6717
Markovic, V. 10132	Martin, D. S. 727 907 7394
Markowitz, S. S. 1318 1599 1831 5768 6588 8329 8330 9013 9632	Martin, E. 690
Markun, F. 9803	Martin, E. P. 6353
Markun, N. Y. 10011 10016	Martin, G. E. 6048
Marlow, K. W. 9922	Martin, J. 174 1118 1839 6989 7919 9256 9337 9407
Marlow, W. F. 9379 9936	Martin, J. A. 9708
Marmier, P. 1091 1668 1776	Martin, M. R. 8235
Marowsky, G. 9728 9872 10290	Martin, T. C. 113 314 1414 1798 2410 2504 2505 3076 3753 3794 4005 5578 6229
Marschal, A. 7015 9625	Martin, T. G. 10114
Marsh, K. V. 9471	Martina, E. F. 8908
Marsh, R. H. 6382 7073 7112 9611 9963	Martincova, Z. 2990

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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| <p>Martinelli, P.
884 901 9025 10153</p> | <p>Masozera, C.
9735 9736</p> |
| <p>Martinez, P.
6222 8179</p> | <p>Massachusetts Institute Of Technology.
667 5414 7353 9096</p> |
| <p>Martishchenko, L. G.
10012</p> | <p>Massart, D. L.
5961 5962 5963 5964 6043
6354 9119</p> |
| <p>Martynov, Y. T.
2965</p> | <p>Massaux, F.
1484</p> |
| <p>Martz, F. A.
10120 10345</p> | <p>Mastalka, A.
2741</p> |
| <p>Marunina, N. I.
9799</p> | <p>Masters, C. F.
6713</p> |
| <p>Marunina, N. O.
8163</p> | <p>Masters, L. W.
8037 8916 10328</p> |
| <p>Maruyama, T.
8254</p> | <p>Mathe, F.
2806</p> |
| <p>Maruyama, Y.
6851 6852 9030 9031 9332</p> | <p>Mathieu, R.
894</p> |
| <p>Masagutov, V. S.
5621 8931 9277 10055</p> | <p>Mathur, S. C.
113 1414 1798 5757 6845</p> |
| <p>Maslov, I. A.
149 869 1166 1647 3363
3381 6994 8321</p> | <p>Matson, W. R.
6365 6921</p> |
| <p>Mason, G. F.
5498</p> | <p>Matsson, S.
6746</p> |
| <p>Mason, R. E.
10363</p> | <p>Matsuda, H.
7981 9755</p> |
| <p>Mason, R. S.
1803</p> | <p>Matsuda, Y.
7177 8046 10156 10157</p> |

ACTIVATION ANALYSIS – AUTHORS

Matsumoto, C. 967	Matsumoto, W. Y. 137	Matsumura, Y. 856 1170 1697	Matsuo, M. 9107 9108	Matsushita, R. 9068	Matsuura, S. T. 8301	Matsuura, T. 1333	Matthews, A. D. 8838 9432 9652	Mattson, J. S. 8319 9520	Matukanis, L. F. 10209	Matula, J. 2934	Matveev, N. S. 3362	Matveev, V. V. 2564 3751	Matveeva, N. M. 8108	Matveeva, N. P. 2385 7925 8091 9995	Maul, E. 10355	Maurette, M. 10253	Maxia, V. 331 1260 1644 3060 3954 3955 6726 6968 7002 7914 9415 9437	May, A. D. 8889	May, L. 2129	May, S. 28 332 756 789 814 878 1171 1319 1369 1818 2327 2865 7004 8065 8200 8990	May, T. H. 8325	Mayburg, S. 8276	Mayer, J. 9837	Mayer, W. A. 10118	Mayes, P. 5742	Mayr, G. 333 334 335	Mazagol, L. 9574
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Maziere, B. 9414	Mc Farling, J. L. 1586
Mazitov, B. S. 4277 9058 9880	Mc Guinness, J. E. 10186
Mazyukevich, N. P. 4277 5319 8185	Mc Gonnagle, W. J. 2441
Mc Andrew, R. G. 8995	Mc Guire, S. W. 2691
Mc Cabe, W. J. 1815	Mc Innes, C. A. J. 1222 9447
Mc Call, T. B. 8247	Mc Kay, H. A. C. 336
Mc Callum, G. J. 7936	Mc Kay, S. M. 8235
Mc Candless, E. L. 3709	Mc Kibben, J. M. 5773 6056
Mc Carley, R. E. 727 907	Mc Kown, D. 5720 6447
Mc Caslin, J. B. 9529	Mc Kown, D. M. 6958 7371 8085 8984 9561 10181 10344
Mc Clendon, L. 7005	Mc Lain, M. E. 8421 10399
Mc Connell, K. P. 709	Mc Lane, J. E. 8853
Mc Crary, J. H. 596	Mc Master, C. H. 3785
Mc Donald, K. 9591	Mc Millan, J. W. 1434 6744
Mc Ellistrem, M. T. 2774	

ACTIVATION ANALYSIS—AUTHORS

Mc Murray, C. S. 1871						Mekhryusheva, L. I. 9662				
Mc Murray, W. R. 6675 8861						Melchiorre, J. J. 3027				
Mc Namara, J. 6068						Melfi, F. 2964				
Mc Natt, F. B. 907						Mellet, M. 892				
Mc Neill, K. G. 9599						Melnik, A. D. 8822 9703 9879				
Mc Pherson, D. 673						Meloni, S. 1260 1644 3955 6726 6968 7002 7914 9022 9415 9437				
Mc Pherson, R. 7043						Melsom, S. 3482 9129				
Mech, J. 1230						Menapace, L. M. 5698 7039 8843 9569				
Mednis, I. V. 7082 7895 8819 9350 10045						Menger, J. W. 5996				
Meijers, P. 6949 7197 7205						Menis, O. 766				
Meinke, W. W. 130 164 165 254 337 338 339 340 341 342 343 344 345 350 409 666 697 712 720 731 765 914 953 1001 1047 1054 1120 1164 1172 1201 1228 1630 1657 1692 1698 1733 1810 1867 2317 2551 3553 5973 6332 6862 7055 7074 8033 8414 9043 10054						Menlove, H. O. 6713 6714 10378				
						Menon, M. P. 546 1978 2365 2520 3064 3797 4200 5975 6460				
						Menzel, J. H. 10349 10358				
Meixner, C. 10410										

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Mercer, W. A.						Metzger, A. E.			
1913						253	1052	1284	
Meren, E.						Meyer, H. G.			
5386						7206	10197		
Merkulov, A. V.						Meyer, J. A.			
9684						9802			
Merlini, M.						Meyer, J. M.			
1277	1781	2901	6016	6982		7160			
9950	10087								
Merrett, D. J.						Meyer, R. A.			
1658	1661					2972			
Merrihue, C.						Meyer, R. C.			
3081						233	737		
Merz, E.						Meyer, R. E.			
222	225	347	1173	1381		654	1060		
1522						Meyer, R. J.			
Meshcheryakov, R. P.						7397	8808	10164	
9581						Meyers, P.			
Meshcheryakov, V. G.						6587	9244	9403	
8187						Mezhiborskaya, K. B.			
Meshri, D. T.						1175	1270	1435	9103
677						Michaelis, W.			
Mesler, R. B.						8069			
918						Michajlov, M.			
Mester, Z.						2923			
4216	5326					Michalik, J.			
10246									
Metcalf, A.						Michaut, C.			
1394	2507	2622	8284			10425			
Metcalf, B.						Michel, R.			
6974						10381			

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Michelsen, O. B. 6083 6959 8082	Mikheichev, A. S. 10025
Michon, R. 3725	Mikhelson, G. G. 7131 8164
Michulis, Y. D. 9722	Miki, R. 6854 7315 7316 9033 9398 9504
Midgett, M. R. 4412	Miklishanskii, A. Z. 7423 9110 9111
Miettinen, J. K. 3735	Milenkovic, S. 2148 2149
Miglina, N. V. 9583	Millard, H. T. 5959 6969 9868 9869
Mignonsin, E. P. 1471 2550 9203	Miller, C. E. 352
Mihailov, M. 984	Miller, D. A. 10232
Mihara, T. 1700	Miller, E. B. 1141 2125 2535 3710
Mikami, A. 9302	Miller, E. C. 8019 10321
Mikhailov, G. I. 7109 7924 9577 10024	Miller, F. J. 1450 5710 9560
Mikhailov, V. A. 10291	Miller, G. B. 8238 10096
Mikhailova, G. N. 3729	Miller, J. 9109
Mikhalik, E. 10129	Miller, J. M. 11 1777
Mikheeva, L. M. 1177	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Miller, L. E.						Minczewski, J.				
9498						210	249	1133	1135	1255
						1949	2444	2932	3091	5697
Miller, R. A.						5863	6054	7092	7122	8309
9097	9985	9986	9987	9988						
9989	9990	9991	9992	9993						
Miller, R. R.						Mineski, R.				
1123						10371				
Miller, S. T.						Mingaliev, G. G.				
1705	2733					8118	8119	8120	8151	8374
						8375				
Miller, W. P.						Miranskii, I. A.				
1789	2123	4283	5746			1550	1551	1585	3385	5857
						6200	7134	8125	8128	8360
						8362	8816			
Miller, W. W.						Miriszlai, E.				
1979	3716	5357	6695			6005	6223			
Millet, M.						Miro, M.				
9325						1970				
Millett, E. J.						Miroshnikov, V. S.				
4322						6200				
Millett, R. J.						Mirzaakhmedov, M. K.				
177	626					9983				
Mills, W. R.						Mishima, I.				
98	2684	7033	8876	9259		6856	9035			
10419										
Milner, G. W. C.						Miskei, M.				
353	1178	1921				2807	3792	6202	6203	6403
						7056				
Milner, O. I.						Miskovits, G.				
451						7234	9897	10102		
Minaev, V. M.						Misra, V. N.				
2764	8863					9732				
Minagawa, Y.						Mistry, K. B.				
7222						10111				

ACTIVATION ANALYSIS—AUTHORS

Mitchell, C. 6222	Miyake, Y. 9931				
Mitchell, F. R. G. 8273	Miyata, Y. 9237				
Mitchell, G. R. 7947	Miyazaki, M. 9263				
Mitchell, J. C. 273	Miyoshi, K. 426 2649	1067	1399	1656	2297
Mitchell, T. G. 136 487 488 489 730	Mizohata, A. 10156 10157				
Mitrofanov, I. E. 9439	Mizuguchi, H. 2297				
Mitsubayashi, T. 1385	Mizuike, A. 424 754 7298				
Mitsuya, N. 7298	Mlitz, P. 7280				
Mityakin, Y. L. 10415	Mo, T. 9767				
Miyagawa, K. 6856 7330 9035	Moauro, A. 2795 5766 7341 7998 9334 10194				
Miyaguchi, M. 804 9040	Moav, B. 1645 2821				
Miyaguchi, Y. 5926	Mochizuki, Y. 585				
Miyaji, N. 6220	Moeller, D. W. 55 56 290 963				
Miyakawa, Y. 1272	Mogilevkin, V. B. 773 1762				
Miyake, T. 2440					

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Mohai, M.						Moller, E.				
7149						4000	5177	5238		
Mohnke, M.						Moller, P.				
7866						9679	9874			
Mohr, H. E.						Mollmann, H.				
9425						9265	9293	10123	10124	
Moiseev, L. I.						Molnar, F.				
7213						7233	7236	10044		
Moiseev, V. V.						Molokhia, M. M.				
799	870	2523	3383	7164		1977	5944	7992	8829	9157
7165	7166	7167	7168			9373	9374	9777	9779	9882
Mokhir, E. P.						Monaghan, R.				
4275						961	996			
Mokhnachev, A. G.						Mongan, D. M.				
10415						1722				
Moki, T.						Monnier, D.				
607						355	356	690	906	915
						940	1217	1313	1321	1341
Moler, R. B.						1396	1426	1535	2481	2623
10391						3989	3996	3997	4309	5942
						6335	7080	7160	7956	8057
						8063				
Molin, G. A.						Monnier, R.				
9413	10406					197				
Molinski, V. J.						Monse, E. U.				
1150	1334	1340	1788	2499		530				
2690	5953	7111								
Moljk, A.						Monsecour, M. R.				
354						6836				
Moll, E.						Montalvo, J. G.				
2813						9434				
Molle, E. D.						Montariol, F.				
6010						358				

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<p>Montoya, J. 2124</p> <p>Montvai, A. 3552</p> <p>Mooney, E. 9823</p> <p>Moore, B. C. 273</p> <p>Moore, C. B. 5958 6050</p> <p>Moore, C. E. 6922 8390 9051</p> <p>Moore, F. L. 822</p> <p>Morgan, A. 10127</p> <p>Morgan, D. J. 2981 7947 10220</p> <p>Morgan, I. L. 113 314 596 1414 2254 2410 2504 2505 2686 3070 3076 3753 3794 3976 4005 5578 8810</p> <p>Morgan, J. W. 469 595 656 1180 1431 1494 1498 1502 5719 6739 7990 8062 8085 8241 8302 8304 9065 9073 9282 9472 9537 9561 9733 9734 9753 9774 9775 9829 9830 9831 9840</p> <p>Morgan, W. R. 693</p>	<p>Mori, H. 357 403 2418 3033</p> <p>Mori, T. 2440 9637</p> <p>Morimitsu, W. 9895</p> <p>Morishima, H. 5926</p> <p>Morita, R. 2440 9637</p> <p>Morris, D. F. C. 221 262 359 360 361 362 363 364 365 366 367 600 601 792 816 1146 1147 1182 1183 1184 1185 1458 1581 3481 3530 7081 7172 10304</p> <p>Morrison, G. H. 116 117 368 369 370 371 1040 1289 1580 1775 1984 1985 2277 2514 5986 6999 7043 7938 8238 9309 9845 9958 10096</p> <p>Morvai, L. 9834</p> <p>Mory, J. 10061</p> <p>Morzek, P. 1037 1193 1344</p> <p>Moseev, L. I. 9982</p> <p>Mosen, A. W. 439 1187 1356</p>
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ACTIVATION ANALYSIS – BIBLIOGRAPHY

Moser, E.						Mudrova, B.			
10259						4306	5335	6667	
Moses, A. J.						Muehlhause, C. O.			
276						373			
Moshier, R. W.						Mueller, D. W.			
2830						7256			
Moskovtseva, G. A.						Muhlberger, F.			
1207	1548	1769	8130	8378		9173			
Mosulishvili, L. M.						Muir, C.			
3757	7420	9440	9449	9532		10161			
Motojima, K.						Mukai, K.			
2683	9219					1723			
Motozima, K.						Mukhamedov, S.			
419						9880			
Mott, W. E.						Mukhammedov, S.			
148	863	927	1213	1981		9058			
2512	3011	3752	5709	9933					
Moulin, J.						Mukhtarov, R. M.			
9756						8113	8123	8154	8155
Mound Laboratory.						Mulkay, P.			
5332						9227			
Mountjoy, W.						Muller, G.			
7994						2627			
Mousty, F.						Muller, J. H.			
4303	6444	8064				374			
Moyers, J. L.						Muller, K.			
6361						9715	10128		
Mozley, J. M.						Muller, O.			
1750						8967	8989	9659	

ACTIVATION ANALYSIS – AUTHORS

Muller, T. 10331					Muratova, U. M. 9097				
Mullins, W. T. 282 1044 1268 1796	291 1060 1361	292 1188 1709	640 1189 1725	641 1190 1727	Murin, A. N. 799				
Mulvey, P. F. 2972	6302	8000			Murozumi, M. 9056	9057	10065		
Muminova, M. F. 6200					Murphy, G. 9258				
Munch, E. 10195					Murray, K. 3469				
Mundkowsky, W. F. 273					Murrenhoff, A. 433				
Mundschenk, H. 5546					Murrmann, R. P. 10114				
Munera, H. A. 9894					Musaelyan, R. M. 5321	5782	10315	10317	
Munson, A. W. 9049					Muse, L. 422	586			
Munzel, H. 1826	7946				Musyl, I. 1527				
Munzer, H. 3746					Muto, H. 426	1115	1116	1399	1656
						2649	3719	3768	5380
						5432	7114	7201	8977
									9034
Murakami, Y. 9263	9939				Myakinkova, T. V. 9654				
Murali, A. V. 8874					Myrberg, N. 6055				
Murano, R. 7102	8012	9053	9550		Myttenaere, C. 459				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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800 801 809 847

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9681

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9756 9763

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6086 6738 6943 6980 7195
7376 7393 7983 8085 9066
9321 9418 9619 9733 9754
9966 10292 10305 10354 10430

Nagahara, T.

5927

Nagai, I.

5308

Nagai, T.

8977

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8152

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6853 7993 9032

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2437 7193 9086

Nagashima, N.

9280

Nagatsuka, S.

1325 1469 3771 3773 5920
6858 9037 9790

Nagi, F.I.

10034

Nagumo, T.

9045

Nagy, A. Z.

10113 10126

Nagy, L. G.

1005 1601 2806 4216 4217
5326 5399 6708 6990 8068
9981

Nakagawa, J.

2440

Nakagawa, T.

2440 9637

Nakai, T.

375 605 606 607 608
776 778 779 899 971
995 998 1038 1063 1154
1155 1174 1176 1322 1654
1672 1679 1682 3714

Nakajima, K.

5920 6858 9037

Nakamura, H.

7283 9283 9832

Nakamura, S.

9057

Nakamura, Y.

2464

Nakane, M.

9931

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9762

Nakasa, H.

5967

Nakashima, M.

9179

ACTIVATION ANALYSIS—AUTHORS

Nakayama, F.						Natsume, H.				
1242	1342	1747				806				
Nakayama, R.						Natusme, H.				
9219						1681				
Namikawa, Y.						Naude, W. J.				
827						6339				
Nardozzi, M. J.						Naughton, W. F.				
9540						6984	9563			
Nargolwalla, S. S.						Naumova, I. I.				
1864	2129	2280	2666	4392		591	784	921	1007	2658
6318	6830	7025	7026	7031		2661				
7176	7966	8306	8420	8898						
9314	9467					Navalikhin, L. V.				
Narita, K.						6705	9896			
9204						Navalkar, M. P.				
Narusawa, Y.						701				
211						Navarrete Tejero, M.				
Nascutiu, T.						9083				
511	1404	1774	7373			Navarrette, M.				
Nashelskii, A. Y.						7137				
8163						Nazarov, S. S.				
Nasra, M.						8928				
10034						Nazmitdinov, M. K.				
Nass, H. W.						7135	7237	8112	8155	8382
1698	1791	2789	5953	6393		Neal, T. E.				
6995	9706					2511				
Nati, G.						Nedbalek, M.				
383						8878				
National Academy of Sciences—National Research Council.										
3389	5526									

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Nedostup, G. A.						Nelson, L. C.				
1559	5577					234	377	958	1865	
Neeb, K. H.						Nenov, N.				
2769	7281	7919	8067			984	2923	5428	10319	
Neef, B.						Netzel, D. A.				
8310						1794	1888			
Nefedov, B. B.						Neuburger, M.				
1443						3991	6409	6704	6939	7334
						7921	9952			
Nefedov, O. M.						New Brunswick Laboratory, AEC.				
1218						2987				
Negina, V. R.						Newcomb, J. C.				
871	1191	2369				1789				
Neider, R.						Newman, R. H.				
1380	7280	9546				9612	10116			
Neidl, H.						Newton, D.				
8067						155	6827	10176	10335	
Neirinckx, R.						Neyret, G.				
6383	7254	7360	7930	8836		1262				
8913										
Nekrasov, V. V.						Nguyen-Long-Den, M.				
9573	9623					812				
Nelligan, W. B.						Nichiporuk, W.				
1680						817				
Nelp, W. B.						Nichol, R. C.				
962	7102	7318	8012	9053		9081				
9550	9898									
Nelson, D. M.						Nichols, J. P.				
6922	8390	9051				7192				
						Nichols, L. L.				
						1				

ACTIVATION ANALYSIS—AUTHORS

Nicholson, W. L. 1328	Nikolaev, A. I. 3388 3736 8351
Nickel, H. 2678 9294 9320 9773	Nikolaev, A. V. 5619
Niday, J. B. 5587 7066	Nikolaev, V. A. 9101
Niebuhr, H. 8867	Nikolov, K. 8316 10192
Nielsen, J. M. 2738 2971 2998 7153	Nilsson, L. 5238
Niemann, E. 1192	Nir, A. 1023 1811 2634 3711 6449
Niese, H. 7997	Nishanov, N. 9338
Niese, S. 825 831 1193 1343 1344 2578 6716 7880 8308	Nishanov, P. K. 7410 8379 9797
Niewodniczanski, J. 5950 7103 7966 9467	Nishi, T. 967
Nifong, G. D. 10383	Nishida, S. 7996
Nikanorov, G. S. 1554 1555 8275	Nishide, H. 9789
Nikanorov, S. G. 1556	Nishigaki, S. 991 3092
Nikitin, V. N. 8814 9090	Nishikawa, Y. 5777
Nikolaenko, O. K. 5317 5780 10000 10004 10009 10010 10017 10019	Nishimura, K. 7328 9267 9503
	Nishimura, S. 1531 5328 5867 8854 9551

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Nishiwaki, Y. 5926	Norikov, A. P. 1554				
Nissen, H. U. 1376 9876	Norman, J. C. 5939				
Nitto, M. 1929	Norris, W. P. 1780				
Nitzan, A. 10229	Noshkin, V. E. 6923				
Niwase, K. 112	Nostrand, J. W. 707 1790				
Niwase, T. 7996 9318 9336	Noszticiusz, Z. 10322				
Nix, J. F. 9206	Notea, A. 1023				
Nixon, G. S. 378 675 2565 2572 2573 3506 6003 7369 7370	Novikov, A. I. 6573				
Nizet, G. 2713	Novikov, A. P. 924 1555 1556 1557 3371				
Noakes, J. E. 10365	Novoselov, A. V. 9500				
Noda, M. 7282 8001	Novotny, A. J. 5746				
Nomura, E. 6856 7330 9035	Nowakowska, Z. 7258				
Nomura, K. 2744 5379 5868 9236 9302	Nowicka-Jankowska, T. 925 5862 8309				
Nomura, S. 1694	Nozaki, T. 379 602 1151 1153 1194 1208 1408 1742 3995 7019 7870 8303 8969 9113 9655				

ACTIVATION ANALYSIS—AUTHORS

Nucifora, G. 3740 5448 5934	O Kelley, G. D. 9269
Nuclear Applications Conference. 1756	O Toole, J. J. 10394
Nuclear Corporation of America. 380	Oak Ridge National Laboratory. 661 810 1438 1442 2391 2588 4317 7199 9752
Nuclear Science and Engineering Corporation. 787 1914	Obaturov, G. M. 9879
Nuclear-Chicago Corporation. 837	Oblas, D. W. 6049
Nucleonics. 650 1364 1544	Oblivantsev, A. N. 9581
Numanov, I. U. 9513 9516	Oblova, A. A. 10403
Numrich, S. K. 9690	Oblozinsky, P. 9743
Nurmatov, D. 3386 5705 5707 8121 8122 8376 8820 8932 10056	Obrink, K. J. 930
Nurnberg, H. W. 7428	Obrusnik, I. 1121 5956 5984 7225 9841
Nystrom, A. 5767	Obukhov, A. P. 149 869 1166 1223 3363 3381
O'Brien, B. C. 7256 9767	Oda, T. 7294 9369 9370 9371
O'Connor, J. D. 2553	Odeblad, E. 381 382 383 384 385 734 8056
O'Connor, J. J. 989 1092	Odeblad, S. 384

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Oehlschlaegel, G. 7175						Oien, A. 10250				
Oeser, H. 9019						Oka, Y. 1402 5311 6677 9220 9303	1481 5379 6678 9221 9920	1765 5868 6727 9236	2744 6351 7920 9298	5308 6676 9062 9302
Oester, Y. T. 938 10283	1141	2125	2535	3710						
Offord, R. E. 3469						Okabayashi, H. 6860				
Ogawa, K. 960	1115	1116				Okabe, H. 9214				
Ogawa, T. 8041						Okada, M. 20 603 608 797 956 1021 1197 1413 1654 2614 7980	375 604 751 798 957 1063 1199 1507 1679 2716	386 605 752 824 990 1144 1200 1511 1880 3399	387 606 753 826 1008 1195 1374 1565 1881 3758	388 607 794 899 1011 1196 1403 1624 1882 3772
Ogborn, R. E. 1041	3062	7215				Okada, T. 967	2804			
Ohno, A. 9045						Okamura, S. 9107	9108			
Ohno, H. 5967	9045					Okamura, T. 8831				
Ohno, S. 6860 9961	8879 10288	9653	9671	9913		Okano, M. 9800				
Ohuchi, A. 8802						Okano, Y. 6858	9037			
Ohyoshi, A. 8208						Okar, S. 4221				
Ohyoshi, E. 8208										
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ACTIVATION ANALYSIS—AUTHORS

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Okuo, T. 3995	Ono, M. 4240
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Oldham, G. 5714 5757 6718 6845 8811 8821 9210 9289 9588 9751 10043 10251 10277 10428	Onoda, Y. 774 997 1261 1299 1300
Olehy, D. A. 439 944 1356 1384 1634 1708 6010 6067 7377	Onodera, K. 7114
Olin, J. S. 6950 7333 8019	Onosov, A. I. 5515 5517
Olivares, G. J. 7089	Onuma, N. 572 922 1125 1307 1385 2283 2340 6220 6379 6445 6729 6962 7223 9980
Olive, G. 1815 1896 1922 5409	Oohata, T. 6860
Oliveri, E. 1517	Oosawa, M. 1391 2889
Olivier, C. 7036 9466 10072 10340	Oosterkamp, W. J. 1562
Olson, N. T. 3788	Oosterom, M. G. 7978 9626 9877
Olsson, M. 9947	Oota, Y. 5327
Olya, A. 367	Op De Beeck, J. 395 2643 2715 5398 6408 7259 8207 9115 9132 10372
Oncescu, M. 1416 1822	Opravit, O. 1363

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|---|
| <p>Orange, J. M.
1981 2512</p> | <p>Osada, K.
5969</p> |
| <p>Orban, E.
7234 9897 10102</p> | <p>Osaki, S.
4311</p> |
| <p>Ordogh, M.
390 1608 1613 1614 1615
1616 1617 1832 2806 3661
3964 6005 6223 7233 7234
8885 9228 9441 9897 9977
10037 10102 10172</p> | <p>Osawa, H.
9222 9223 9224 9248 9249</p> <p>Osawa, M.
572 585 4302 8235 9734
10343</p> |
| <p>Orestova, I. I.
8345 8348</p> | <p>Osborn, S. B.
155 6014 6827</p> |
| <p>Orifkhodzhaev, U.
7926 8961 9685 9984</p> | <p>Osborne, J. F.
2376</p> |
| <p>Orlandini, K. A.
1863</p> | <p>Oshry, H. I.
695</p> |
| <p>Orlov, Y. L.
2306 6720 8819</p> | <p>Osmond, R. G.
391</p> |
| <p>Ormont, B. F.
75</p> | <p>Ossart, P.
7015</p> |
| <p>Ormos, G.
2807 3792 6203</p> | <p>Ostachowicz, J.
3335 5952</p> |
| <p>Orr, J. S.
9780</p> | <p>Osterlundh, C. G.
5433</p> |
| <p>Orsoni, L.
151</p> | <p>Otski, T.
1446</p> |
| <p>Ortega, C.
9763</p> | <p>Otterlind, G.
9947</p> |
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6991 9266 9304</p> | <p>Otvinskii, V.
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1595 9415</p> | |

ACTIVATION ANALYSIS—AUTHORS

<p>Otvos, J. W. 861 1014 1163</p> <p>Otwinowski, W. 1069 1373 1636 5864 8901</p> <p>Ouellette, R. P. 2695 3959</p> <p>Overman, R. F. 7127</p> <p>Overman, R. T. 106 392 610</p> <p>Owens, G. C. 1204</p> <p>Owlya, A. 6586</p> <p>Owsiak, T. 6325</p> <p>Oxley, S. S. 5936</p> <p>Oyoshi, A. 2727 7894</p> <p>Oyoshi, E. 2727</p> <p>Ozols, A. E. 7133</p> <p>Paap, H. J. 10154</p> <p>Padden, R. E. 1470</p> <p>Pagden, I. M. H. 8840 9054 10091 10296</p>	<p>Pailthorp, K. G. 8012 9053 9550 9898</p> <p>Palino, G. F. 1803 2902</p> <p>Palmai, G. 4270 5970 8099</p> <p>Palmer, A. R. 6373</p> <p>Palmer, H. E. 7102 8012 8834 9053 9511 9550</p> <p>Palomares, J. 2714 9008</p> <p>Pannell, J. H. 169 170</p> <p>Panov, G. I. 1393</p> <p>Panse, H. 10355</p> <p>Pantazis, G. 686</p> <p>Papadopoulos, C. 686</p> <p>Papadopoulou, C. P. 5995</p> <p>Papavasiliou, P. S. 929 1206 1705</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

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| <p>Pape, A.
4209</p> <p>Pappas, A. C.
1205 2754</p> <p>Parekh, P. P.
1427 6960 7108 8874</p> <p>Park, J. H.
3344 3713</p> <p>Park, K. S.
9130 9131 9644</p> <p>Parker, C. V.
2410 3076 3794 3976 4005
5610 8810</p> <p>Parker, J. L.
1604 5752 5769 6456 6589
6752 7045 7162</p> <p>Parker, R. B.
7305</p> <p>Parker, R. P.
3521</p> <p>Parker, S. H.
5769 6589</p> <p>Parkhurst, R. M.
5751</p> <p>Parkinson, T. F.
959 966 9937</p> <p>Parr, R. M.
1310 1411 2698 9680 10309
10313</p> <p>Parsa, B.
1599</p> | <p>Parsignault, D. R.
10371</p> <p>Parthasarathy, R.
1901 1960</p> <p>Partington, D.
9046</p> <p>Pascu, N.
5949</p> <p>Passell, T. O.
423 482</p> <p>Paster, T. P.
9858 10093</p> <p>Pasternack, B.
7063</p> <p>Pasztor, E.
1602 2761 6022</p> <p>Pasztor, L. C.
1950 2542 4413</p> <p>Pate, B. D.
474 475 476</p> <p>Patek, P.
1492 2766 3418 4191 4293
4308 4406 5438 5930 6451</p> <p>Patriarche, G. J.
9969</p> <p>Patrovsky, V.
1582</p> <p>Patterson, C. C.
9056 9057 10065</p> |
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ACTIVATION ANALYSIS—AUTHORS

Patterson, J. H.						Peeters, E.				
4289						1447	1466			
Paulsen, K. E.						Peirson, D. H.				
9969						393				
Paulson, R. A.						Peisach, M.				
8328						770	841	842	868	1071
						1302	2532	2618	6329	6339
Pauly, J.						6450	6582	6668	6669	6675
579	942	977	1042	1541		6680	6681	6682	6683	7013
1573	1598	1676	1729	1755		7036	7163	7250	8201	9466
1878	1952	2556	2836	2901		10072	10215	10307	10339	10340
3082	3724	3793	3985	5421		10341				
5583	5987	9023								
Pauwels, L.						Pelekhov, V. I.				
9226						948				
Pavlicsek, I.						Pelekis, L. L.				
7389	9536					2337	5869	5870	7131	8042
						8048	8050	8156	8164	8294
						8295	8298	8819	9348	9349
						9350	9351	9352	9353	9362
						9475	9909	9910	9911	10029
Paxton, G. D.						10271	10272			
2565										
Pearson, G. J.						Pelekis, Z. E.				
9054	9628	10296				2337	7131	8042	8156	8164
						8295	9351	9352		
Peart, R. F.						Pellegrini, U.				
881						9024				
Peck, P. F.						Pels, E.				
1026	1028	1209	1210	1951		10210				
2429	2652	5372								
Pedersen, A. O.						Penaranda, F. E.				
6679						9675				
Pedersen, K. B.						Penas, N. P.				
10390						4258				
Peetermans, A.						Pencea, C.				
743						7373				
						Pendharkar, M. S.				
						2982	3560			

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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| <p>Perdijon, J.</p> <p style="margin-left: 2em;">1304 1640 1753 2983 3090</p> <p style="margin-left: 2em;">3980 5443 5708 5853 6357</p> <p style="margin-left: 2em;">7302 8314 8888</p> <p>Perelygin, V. P.</p> <p style="margin-left: 2em;">10258</p> <p>Perez, A. W.</p> <p style="margin-left: 2em;">9026</p> <p>Perezhogin, G. A.</p> <p style="margin-left: 2em;">768 1763 2641 3367 3804</p> <p style="margin-left: 2em;">4310 8165 8187 9885</p> <p>Perezhogin, G. P.</p> <p style="margin-left: 2em;">2721</p> <p>Perfilov, N. A.</p> <p style="margin-left: 2em;">3394</p> <p>Perin, Y. I.</p> <p style="margin-left: 2em;">7365</p> <p>Perkin, J. L.</p> <p style="margin-left: 2em;">108 109</p> <p>Perkins, M.</p> <p style="margin-left: 2em;">6401</p> <p>Perkins, R. W.</p> <p style="margin-left: 2em;">2500 3424 4381 6012 6360</p> <p style="margin-left: 2em;">6375 6930 7042 8139 8896</p> <p style="margin-left: 2em;">9052 9511 9564 9565 9807</p> <p style="margin-left: 2em;">9818 10090 10366 10385</p> <p>Perkons, A. K.</p> <p style="margin-left: 2em;">706 1737 2548 6037 6311</p> <p style="margin-left: 2em;">6315 6952 7383 7384 8809</p> <p style="margin-left: 2em;">9072 9191 9317 9397</p> <p>Perlman, I.</p> <p style="margin-left: 2em;">4280 5788 9161</p> | <p>Perneczky, G.</p> <p style="margin-left: 2em;">3413 9134</p> <p>Perovskii, A. P.</p> <p style="margin-left: 2em;">5515 5517 6297</p> <p>Perricos, D. C.</p> <p style="margin-left: 2em;">7364</p> <p>Perrin, A.</p> <p style="margin-left: 2em;">8282</p> <p>Perry, K. I.</p> <p style="margin-left: 2em;">2272</p> <p>Persiani, C.</p> <p style="margin-left: 2em;">4386 5955 6065 7301 9346</p> <p>Pestaner, J. F.</p> <p style="margin-left: 2em;">5376</p> <p>Peter, H.</p> <p style="margin-left: 2em;">1380</p> <p>Peter, I.</p> <p style="margin-left: 2em;">2659</p> <p>Peters, B. F. G.</p> <p style="margin-left: 2em;">864</p> <p>Peters, D. K.</p> <p style="margin-left: 2em;">7372 7426 9739</p> <p>Petersen, B. R.</p> <p style="margin-left: 2em;">8818 9408</p> <p>Petersen, D. F.</p> <p style="margin-left: 2em;">4227</p> <p>Peterson, R. L.</p> <p style="margin-left: 2em;">8844</p> <p>Peterson, R. W.</p> <p style="margin-left: 2em;">8276</p> |
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ACTIVATION ANALYSIS—AUTHORS

Peterson, S. F.					Phillips, G.				
2277	6999	7938	9271		396				
Petit, J.					Phillips, H. R.				
814	849	3727			2574				
Petkov, P. M.					Picciotto, E.				
3374					397				
Petrenko, V. D.					Piccot, D.				
10409					1818	2327	2865		
Petri, H.					Picer, M.				
8996	9855				5790				
Petrov, Y. I.					Pick, M. A.				
8863					5756				
Petru, F.					Picon, M.				
6828					5579	8862			
Petrzhak, K. A.					Pierce, C. M.				
5318					1467				
Petushkov, A. A.					Pierce, K. C.				
8827					316				
Pfeffermann, E.					Pierce, T. B.				
9617					1026	1028	1209	1210	1951
					2429	2652	3336	3979	4304
Pfeifer, V.					5342	5372	6596	6743	7052
1273	9656				8059	9071			
Pfrepper, G.					Pietra, R.				
2723	2724	2725	2767		790	1281	1952	2556	2794
					2901	8195	9122	9135	
Phelps, P. L.					Pijck, J.				
2547					1211	1707	1743	1744	1745
					1748	1749	2805	2892	3713
Philbin, P. W.					8055	9154	9327		
7414	9198	9308	10168		Pillay, K. K. S.				
					2145	6312	6695	7397	7899
Philip, H.					8323	8324	9458	9666	9695
7372	7426				10125	10201	10241	10362	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Pillon, R. 10425					Plantin, L. O. 710 1276 2508 9647
Pindrus, P. 13					Piashakova, G. P. 6053
Pink, H. 5350					Platzek, P. 8286
Pinkas, V. 2386					Platzer, R. 2927
Pinker, R. H. 183 1034 2959 9217					Pleshakova, G. P. 6072
Pinte, G. 1171 6071 7004 8200					Plett, H. 6715
Piper, D. Z. 7935					Plumb, R. C. 398 399 400
Pirie, A. 484					Pocze, L. 2922
Pirtle, O. L. 1036					Podolsky, S. 8038 9342 9598
Pisa University, Italy. 3468					Podosek, F. A. 9729
Piskunov, L. I. 5513					Poey, B. S. 7218
Plakhov, V. V. 10014					Point, J. J. 401
Plaksin, I. N. 783 1280 3087 3373 3374 3375 3376 3379 3767 5325 5620 5778 5779 5854 7170 7862 7875 7878 8044 9983 9984					Poleshchuk, T. V. 3382
					Polinsky, P. D. 2123
Plaksin, M. A. 855					Polishuk, P. 6310 6753 7047

ACTIVATION ANALYSIS—AUTHORS

Pollack, L. R. 2692	Porrirt, R. E. J. 1845 9296
Pollak, H. 9226 9736	Porter, R. S. 860
Poluchowicz, L. 8959	Portheine, H. 8051
Pomorski, L. 10216	Portnoy, B. 7992 8829 9157 9373 9374
Ponitz, W. 1916	Post, R. G. 5745
Ponta, U. 9661	Postelnikov, A. F. 9997
Poole, D. O. 2532	Postma, F. W. 1871
Popov, C. 1754 2923 3739 5428 10319	Postmus, C. 1230
Popov, H. 984	Potapeva, L. E. 9585
Popov, K. 8157	Potapova, T. A. 3382
Popov, N. V. 9782	Potapyev, V. V. 4242
Popova, N. N. 10040	Potashev, P. I. 9999
Poret, C. 7334	Potekhin, B. A. 8278
Pories, W. J. 2124 6309 6712 6933 7246	Potratz, H. A. 39 40 41 42

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Potter, J. C. 934	Preisler, E. 1829
Potter, N. M. 7938 8238 10096	Preskitt, C. A. 8014
Pottier, R. 4001	Presnyakova, M. A. 2369
Potzl, K. 5522	Presser, G. 2615
Pougheon, S. 8957	Preston, A. 10089
Pouradier, J. 402	Pretorius, P. J. 9011
Poxon, D. W. 10277	Pretorius, R. 2618 6329 6339 6675 6681 6682 6683 7013 7250 8887 9558 10041 10337 10338 10339
Pozychanyuk, V. F. 1550 1585 3385 8125 8126 8128 8360 8362 8816	Price, H. J. 2549 8281 9162
Pozzi, G. 6016 9950	Price, R. B. 8980
Pradzynski, A. 7314 9519	Prickartz, R. 2323
Prapuolenis, A. A. 7219	Priest, G. L. 3781 5339 8839 9786
Prasad, K. N. 6710 9631	Priest, H. F. 3781 5339 8839 9786
Prasilova, J. 2845	Prigozhina, S. M. 8350 8353
Pratchett, A. G. 9670 9721	

ACTIVATION ANALYSIS — AUTHORS

Prister, B.						Prouza, Z. (continued)				
773						7124	7139	7368	7409	9059
						10357				
Pritchett, R. A.						Prudhomme, J. T.				
8176						314	3753			
Pro, M. J.						Prussin, S. G.				
763	1031	1077	1635	2647		1795	2559	2579	2688	
2648	4263	6021	6030	6036						
6048	6951	7909	8100	8291						
10032	10361					Przybylowicz, E. P.				
						6830	7025	7026	7176	
Prochazkova, Z.										
1963	1972	3393	3669	4213						
4248						Pshenichnov, Y. P.				
						10105				
Prokop, R.										
7954	7955					Puchner, H. F.				
						9393				
Prokopchik, V. I.										
4276	5356	8975	9584			Puerto Rico Nuclear Center.				
						6204	6205	6206	6207	
Pronin, V. A.										
2640	3730	3731	5336	5619		Pung, T. C.				
5703	5787	6833	7118	7119		9062	9920			
7212	8111	8358	9159	9356						
Pronman, I. M.						Purdy, J. C.				
5321	5781	5782	9593	10315		6209				
10316	10317									
Propai, S. T.						Purser, P. R.				
8333	10106	10228				405				
Prosperi, D.						Putman, J. L.				
7130						407	2650			
Prospero, J. M.						Putyatina, N. D.				
8140						1558	3368			
Protasova, L. F.						Pyzhova, Z. I.				
9349						4391				
Prouza, Z.						Qaim, S. M.				
1186	1506	2387	5602	5848		10310				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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|--|--|
| <p>Quaglia, L.
6595 9114 10223</p> <p>Quaife, M. A.
2434 2445 3062</p> <p>Quesson, M.
57 1503</p> <p>Quigley, D. A.
7320</p> <p>Quijano-Rico, M.
8965 9099 10101</p> <p>Quittner, P.
3350 3413 3548 3550 3552
4231 5931 6572 7288 7922
8166 9134 9431 9676</p> <p>Quivy, R.
125</p> <p>Qureshi, I. H.
2006 7005 9000 9460 10034</p> <p>Raaen, H. P.
2609 4316</p> <p>Rabideau, S. W.
9291</p> <p>Rabinovich, B. S.
9979</p> <p>Rabinowicz, E.
408</p> <p>Raboczki, J.
8825</p> <p>Rabot, R.
1503</p> | <p>Rachmann, J.
8415</p> <p>Rack, E. P.
6321</p> <p>Radak, B.
1696</p> <p>Radiation Counter Laboratories.
646</p> <p>Radman, M.
9971</p> <p>Radojicic, M.
10104</p> <p>Radosavljevic, R.
9945 10104 10132 10133</p> <p>Radwan, M.
1030 5966 7355 8959 9158
10129 10196 10245</p> <p>Radwan, Z.
925 5862 8309</p> <p>Rafaeloff, R.
1071 7180</p> <p>Ragaini, R. C.
1953</p> <p>Ragland, P. C.
9860</p> <p>Rahalkar, G. W.
10111</p> |
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ACTIVATION ANALYSIS—AUTHORS

Rahn, K. A.					Ramdohr, H. F.				
9012	9938	10050	10207	10383	1521	1886			
Rai, L.					Ramos, E.				
2318					1970				
Rainosek, A. P.					Ramos, J. C.				
3797					9605				
Raisic, N.					Rampey, W. P.				
1659	1696				8312				
Rakhimov, K.					Ramsey, A. C.				
8378					7932				
Rakovic, M.					Rancitelli, L. A.				
900	939	1186	1271	1282	6360	6375	6389	6399	6930
1387	1392	1506	1660	1662	6941	7042	7077	7125	7243
1664	1751	1752	1948	1963	7885	8139	8143	8144	8145
1972	2387	2681	2759	2921	8146	8147	8148	8834	8896
2990	3334	3393	3669	3765	9052	9095	9564	9565	9807
4213	4248	5602	5618	5848	9818	10090	10366	10385	
5874	7124	7138	7139	7368					
7409	7950	8919	9059	9489	Randa, Z.				
9490	9638	9705	9927	10244	8998	9005	9464	9627	10078
10248	10357				10214	10423			
Rakovskii, E. B.					Randerson, D.				
9979					9105				
Rakovskii, E. E.					Randle, K.				
985	6298	9345	9702		5936	6964	8235	9734	10332
Raleigh, H. D.					Rao, S. R.				
1365					2984				
Ralls, K. M.					Rappaport, R.				
9514					1463				
Ralston, H. R.					Rasmussen, E. G.				
7065	9480				9527	9893			
Rambaud, P.					Rasmussen, N. C.				
9325					216	1618	1787	1898	3059
					10165	10249			

ACTIVATION ANALYSIS – BIBLIOGRAPHY

<p>Rasmussen, S. E. 10420</p> <p>Rassoul, A. 1345</p> <p>Rathburn, D. W. 1794 1888</p> <p>Rauh, E. G. 9085</p> <p>Rausch, H. 4153 5499 5793 6385 7233 7401 8075</p> <p>Rauscher, H. E. 1976</p> <p>Ravera, O. 6982</p> <p>Ravetz, A. 6388</p> <p>Ravnik, V. 7413 9278 9912 9965</p> <p>Rawlings, F. F. 10389</p> <p>Raymond, W. H. A. 214</p> <p>Rayudu, G. V. S. 6308 6314</p> <p>Razumova, G. N. 6834 7116 8158 8168 8193 9063</p>	<p>Re, C. 6597</p> <p>Reba, R. C. 2585 6068 7999</p> <p>Rebagay, T. V. 8085 8197 8985 9064 9733</p> <p>Recke, W. 1830</p> <p>Reddy, G. R. 1449 1639 2982 7196</p> <p>Reed, D. 1428 2846 9744</p> <p>Reed, G. L. V. 6081</p> <p>Reed, G. W. 209 410 411 412 736 1212 8236 8413 10097 10144</p> <p>Reed, J. H. 665 713 1611 1783 1785 2364 6971 7967 10391</p> <p>Reeder, S. D. 482</p> <p>Rees, T. B. 6401</p> <p>Reid, A. F. 413</p> <p>Reifenschweiler, O. 7029</p>
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ACTIVATION ANALYSIS—AUTHORS

Reiffel, L.	414	1311	1366			Revenska-Koctsyuk, B.	5966				
Reilly, E. M.	6226					Rewienska-Kosciukowa, B.	7355	8959	9158		
Reimers, P.	9546	9759				Rey, P.	7405	8240	8982	10100	
Reinhardt, K.	1578	1931				Reynolds, G. M.	8014				
Reinig, W. C.	7037					Reynolds, L. M.	4329	8242			
Reiser, W.	1367					Reynolds, S. A.	81	293	294	295	296
Rembold, E. A.	1637						297	298	300	415	722
Remport-Horvath, Z.	9977						1044	1846			
Rengan, K.	1047					Rezvanov, R. A.	1445				
Renzetti, A. D.	8139					Rhodes, B. A.	8246				
Retief, D. H.	8053	8054	9512	9547	9548	Rhodes, D. F.	1213				
Reuland, R. J.	1283					Rhodes, J. R.	5764	6229	7030	7202	8868
Revcolevscki, A.	9915						9553	10173	10367		
Revel, G.	2381	3721	5938	5954	6590	Ribansky, I.	9743				
	7018	8206	9213	9915		Ricci, E.	201	416	701	1065	1499
							1593	1936	1937	1938	1939
							2259	2531	2682	3071	4193
							6327	6579	6709	7010	7228
							7881	8029	8034	8418	8855
							9009	9603	10073	10270	
						Rice, R. D.	8844				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

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|---|--|
| <p>Rich, C.
7102 8012 9550</p> | <p>Rigaud, J. M.
9745</p> |
| <p>Richards, D. H.
242 243 244 245 246</p> | <p>Rigo, S.
9763</p> |
| <p>Richardson, A. E.
7902</p> | <p>Riley, J. P.
8838 9432 9652</p> |
| <p>Richardson, K. W.
9697</p> | <p>Rimskii-Korsakov, A. A.
5704</p> |
| <p>Richardson, R. H.
8022</p> | <p>Rison, M. H.
4273 5420</p> |
| <p>Richmond, J.
7425</p> | <p>Rispal, C.
889</p> |
| <p>Ricq, J. C.
1518 1538 6569 7418</p> | <p>Ritzl, F.
8960</p> |
| <p>Rieck, H. G.
9818 10366</p> | <p>Riviere, R.
1278 3745 6932 7084 7240
9780</p> |
| <p>Rieder, R.
8964 9099 10101</p> | <p>Rob, C. G.
2124 6309 6712 6933 7246</p> |
| <p>Riehl, N.
1252</p> | <p>Robaye, G.
6595 9114 10223</p> |
| <p>Riekstinya, D. V.
8294 9903 9722 10272 10273</p> | <p>Robbins, J. A.
8290 9012 9363 9938 10050
10383</p> |
| <p>Riezler, W.
417</p> | <p>Robert, R. V. D.
10077</p> |
| <p>Riga, USSR.
2675</p> | <p>Roberts, J. O.
321</p> |
| | <p>Robertson, D. E.
2500 4381 6375 8140 8141
10090</p> |

ACTIVATION ANALYSIS—AUTHORS

<p>Robertson, D. S. 2729</p> <p>Robertson, I. 9476</p> <p>Robertson, J. S. 4377</p> <p>Robertson, O. H. 90 725</p> <p>Robertson, R. 6407 7072 10033</p> <p>Robin, G. 1600 5968 8925</p> <p>Robins, C. H. 4287 6082 6350</p> <p>Robinson, B. P. 4412</p> <p>Robinson, E. L. 4287 5744 6350 10187</p> <p>Robinson, J. R. 954 976</p> <p>Robson, A. 1368</p> <p>Rocca, H. C. 6993</p> <p>Rocco, G. G. 2541 3474</p> <p>Rochas, P. 1503</p> <p>Roche, M. F. 10164</p>	<p>Rodden, C. J. 420</p> <p>Rodenbusch, H. 7954 7955</p> <p>Roderbourg, J. 1484 2773</p> <p>Rodin, N. N. 7388 9573</p> <p>Rodriguez, F. A. 8311 9514</p> <p>Rodriguez, G. D. 1464</p> <p>Rodriguez-Gonzalez, F. A. 10262</p> <p>Rodriquez Mayquez, E. 2968</p> <p>Roedder, E. 1107</p> <p>Roels, J. F. 2633 9226 9227 9736</p> <p>Roesmer, J. 588 676 705 9672</p> <p>Rogers, G. T. 5932</p> <p>Rogers, V. C. 9069</p> <p>Rogushin, I. I. 2750</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

Rohnsch, W.						Rose, R. M.				
1520	1603	1628				1966				
Rojas, M. A.						Rosenbaum, H. S.				
2685						5408				
Rollier, M. A.						Rosenberg, J.				
1260	1644	3060	3954	3955		9618				
6726	9208	9704								
Romanetti, R.						Rosenblum, L.				
6384						3085				
Romanov, A. S.						Rosenfeld, I.				
9469						513				
Romanov, M. M.						Rosengren, B.				
924	1162	1551	1553	3362		9633				
8126	10409									
Romanov, O. M.						Rosenoer, V. M.				
1162	1554					6211	7427			
Rommel, H.						Rosholt, J. N.				
1013	1193	1344	2712	8005		6961				
Rommel, M. A.						Rosick, U.				
2680						8393	9679			
Rona, E.						Ross, A. M.				
421	422	586				139				
Rook, H. L.						Ross, D. A.				
1861	2777	6066	7008	7248		867				
8898	9006	9377	10182							
Roots, E. N.						Ross, H. H.				
273						700	1932	1933	2682	6327
Roper, N. J.						9009	10342			
1875						Ross, L. E.				
Rosa, U.						6923	10164			
3957						Ross, W. J.				
						1035	1226	1710	1711	1796
						3074	10242	10289		

ACTIVATION ANALYSIS—AUTHORS

<p>Rossi, M. L. 707</p> <p>Rossouw, S. F. 4006</p> <p>Rotariu, G. J. 5709</p> <p>Roth, E. 2768</p> <p>Roth, L. J. 2642</p> <p>Rothenberg, A. M. 8238 10096</p> <p>Rottmann, J. 2678 9294 9773</p> <p>Rottschafer, J. M. 4410 9520 9969 10119</p> <p>Roubault, M. 1308</p> <p>Rouchaud, J. C. 6441 9915</p> <p>Rouèche, A. 1426 7080</p> <p>Routti, J. T. 5971</p> <p>Rowe, J. J. 9766 9778 10347</p> <p>Rowe, M. W. 5716</p> <p>Rowinska, L. 10196</p>	<p>Rowland, F. S. 728 909</p> <p>Royster, G. W. 8958</p> <p>Rozhkov, I. S. 9345</p> <p>Rubin, B. 989</p> <p>Rubin, S. 423</p> <p>Ruch, R. R. 183 1034 2782 2790 2792 2793 2959 2978 9765 10398</p> <p>Rudd, T. G. 8012 9550</p> <p>Rudelli, M. D. 802 6993</p> <p>Ruf, H. 2844 8086 9809</p> <p>Rundo, J. 155 3078</p> <p>Rundquist, D. E. 9614</p> <p>Runge, K. 8183</p> <p>Rushbrook, P. R. 1214 9730</p>
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ACTIVATION ANALYSIS – BIBLIOGRAPHY

Rushizky, G. W.						Ryabukhin, Y. S.				
5357						5976	8822	8906	9693	9703
						9879				
Russell, H. T.						Ryan, V. A.				
3064						1576	4226			
Russell, I. J.						Ryan, W. P.				
1584	1655					6038				
Russkaya, E. I.						Rybach, L.				
3379						1376	1505	9876		
Rust, J. H.						Rybnov, V. V.				
8882						8112	8155			
Rust, R. H.						Rychkov, R. S.				
2552	3345					1286	2717			
Rustichelli, F.						Rygaert, J.				
4208						6216				
Rusyaev, V. G.						Rygaard, J.				
6571	9509					405	943			
Rutherford, H. A.						Ryskin, G. Y.				
1073	1472	1583	7382	9151		425				
Ruttink, J.						Rytchkov, R. S.				
1748	3708					544	662			
Ruzicka, J.						Rzekiecki, R.				
795	1121	1243	1244	1291		9941				
1346	1575	1579	1587	1588						
1820	1930	1974	2153	2154						
2845	3084	6334	9926			Sabbioni, E.				
Ryabchikov, D. I.						1541	1598	1952	2794	2836
1285						3724	3985	5987	7421	8195
						8292	9122	9135		
Ryabinin, A. I.						Sabina, A. C.				
9469						4258				
Ryabukhin, V. A.						Sabine, T. M.				
544	662	1285				3783				

ACTIVATION ANALYSIS—AUTHORS

<p>Sabirov, S. S. 7135 8114 8382</p>	<p>Saito, N. 427 1198</p>
<p>Sabloff, J. A. 7340</p>	<p>Saito, T. 5311 5379 6677 9062</p>
<p>Sabo, E. 5759 7424 9681</p>	<p>Saitoh, M. 1496</p>
<p>Sacchetti, N. 1406</p>	<p>Saizew, E. I. 1885 8043</p>
<p>Sacha, J. 6044</p>	<p>Sakai, T. 1391</p>
<p>Sachanbinski, M. 8049</p>	<p>Sakamoto, A. 4374</p>
<p>Sachs, H. W. 9286</p>	<p>Sakanoue, M. 1391 2889 4302 9762</p>
<p>Sachs, P. L. 9814</p>	<p>Salaita, G. N. 1843</p>
<p>Sadykov, M. M. 9097</p>	<p>Salamon, A. 6385 7401 9112 9488 9535</p>
<p>Saifutdinova, D. G. 1550 1585 3385 8125 8128 8360 8362 8816</p>	<p>Sali, S. 9441</p>
<p>Sairenji, E. 1198 1446</p>	<p>Salmin, Y. P. 1885 3387 6707 8043</p>
<p>Saisho, H. 1232</p>	<p>Salmon, L. 155 239 428 429 430 431 432 477 3426 9934</p>
<p>Saito, K. 1151 1194 1742</p>	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Salvetti, F.						Sanders, W. M.				
7130						1604	3970	3977	5417	5752
						5769	6589	6752		
Saly, S.						Sandor, J.				
10126						1005				
Samadi, A. A.						Sandquist, G. M.				
8065	8990					8301				
Samosadnyi, V. T.						Sandru, P.				
2764						1822				
Samosyuk, V. N.						Sanford, W. R.				
9380						1048				
Samsahl, K.						Sanguist, V.				
442	714	829	830	1089		1415				
1134	1412	1766	1797	1892						
1894	2403	2718	4004	5760						
5771	5785	6574	6575	6576						
6577	6697	6715	6754	6831		Sankar Das, M.				
6838	6965	9172				1109	1449	1596	1639	1901
						1902	1903	1911	2602	2976
Samson, C.						3560	6960	7375	7916	8874
1912						9621				
Samuelsson, E. G.						Sano, H.				
4323	5382					1198				
Sanad, W.						Sansoni, B.				
4203	5729					8867				
Sanchez Izquierdo, J.						Santell, F.				
2968						9941				
Sandalls, F. J.						Santelli, D. J.				
10127						1801				
Sanders, F. W.						Santner, E.				
993						9546	9759	10038		
						Santoliquido, P. M.				
						9733				

ACTIVATION ANALYSIS—AUTHORS

Santos, G. G.					Sato, H.				
6404	6740	6966	6967	9084	6857	9036			
9257	9330	9866	10303						
Santos, G. P.					Sato, K.				
8970					838				
Sardi, A.					Sato, M.				
5416	9499				1115				
Sarigianis, P.					Sato, O.				
7414	9198	9308			9919	10287			
Sarteur, R.					Sato, R.				
9941					1780				
Sasajima, K.					Sato, Y.				
8879	9671				5386	5928	7315	7316	8402
					9504				
Sasaki, E.					Sattarov, M.				
1446					6201	6301	8116	8979	9526
Sasaki, M.					Sattarov, M. S.				
1402	1765	6678			8124				
Sasaki, T.					Saunkin, O. F.				
1333					858				
Sasaki, Y.					Sautin, A.				
755					1957	4325			
Sasakura, H.					Savel, P.				
9214					911				
Sastry, B. V. R.					Savosin, S. I.				
5756					780	1430	2750	8817	10040
Sasuga, T.					Sawai, T.				
9655					1338	1468	1469	3771	5921
					9201	9202			
Sato, E. S.									
9480									

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Sayre, E. V.					Schilling, J. G.				
433	1032	1629	1834	1897	2763				
1926	2945	6031	6950	7333					
7340	7416	9027	9560		Schiltz, J. C.				
					1454	1817	6324	7143	7152
Schade, H.					Schindewolf, U.				
1091					434	435	436		
Schaeffer, O. A.					Schleiffer, J. J.				
6399					2632				
Schaub, B.					Schlenker, R. A.				
3727					8900				
Schaudy, R.					Schlesinger, H. L.				
7304	7306	9170			2647	2648	4263	6021	6030
Scheer, K. E.					6036	6953	8100	9557	9606
6069	7098	9900			9607	9792	9793	9813	9906
					9907	10027	10256	10364	
Scherle, A. C.					Schlosser, J. E.				
9485	10047	10193			7049				
Scherle, W.					Schmadebeck, R. L.				
1010	1012				7048	8015	9426		
Schiavini, G.					Schmeiser, K.				
1095					437	438			
Schicha, H.					Schmidt, D.				
10152	10191				5440	6322	7951	9727	9862
Schierling, H. E.					Schmidt, G.				
1336	1337	1423			7959				
Schiff, E.					Schmidt-Bleek, F.				
4217					5403	6972	8869	9118	9270
Schiller, P.					Schmied, H.				
9764	10049	10301	10302		1760	1842	6725		

ACTIVATION ANALYSIS – AUTHORS

Schmitt, B. F.					Schonfeld, T.				
7280	9546				394	440	694	749	
Schmitt, R. A.					Schonholzer, P.				
439	613	648	932	933	8870				
944	1187	1251	1323	1356					
1384	1634	1708	2735	5343	Schontag, A.				
5720	5958	6010	6067	6442	1732				
7140	7377	8074	8240	8982					
9076	9152	9435	9473	9543	Schrader, C. D.				
9734	10100	10135			1052				
Schmolzer, G.					Schrage, E.				
9715	10128				1381				
Schmotzer, J. K.					Schramel, P.				
8024					3746	7142	7403	9884	10190
Schneer Erdey, A.					Schroeder, G. L.				
9406					1216	1953	2694	2762	
Schneeweib, F.					Schropl, F.				
9874					7175				
Schneider, E. E.					Schuberg, B.				
9597					8313				
Schneider, E. L.					Schuhl, C.				
7907	9049				38				
Schneider, H.					Schuhmacher, J.				
1367					8988				
Schneider, W.					Schulert, A. R.				
1869					1858				
Scholes, P. H.					Schulte, K. E.				
5389	9921				9297	9835			
Schon, A.					Schultz, W. W.				
1529					718	2571	8178		
Schonfeld, E.					Schulze, W.				
2450	2533	2545	4210	4326	441	627	711	898	1666

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Schulze, W. (continued)

2513 2544 2566 3720 3978
5937 8406

Schumann, P.

2335

Schuster, E.

5957 6581 6583 6736 7307
7905

Schutz, D. F.

614 1027

Schwartz, D.

216

Schwarzer, D.

158

Schweikert, E. A.

1375 2628 2629 6066 6396
7008 7248 8846 8892 9006
9377 9825 10041 10337 10427

Schwemmer, M.

8870

Scott, A. E.

9924

Scott, H. D.

4380 5390 6839 7129 10154

Scott, J. E.

4263

Scott, J. G.

10177

Scott, W. L.

5394

Seaborg, G. T.

443

Sebastian, I.

1363 1574

Sedlacek, W. A.

1576

Sedykin, F. V.

7365

Segel, R. E.

862

Seibold, C. T.

7321

Seiler, H.

7883

Seino, H.

516

Seirmarco, J. A.

881

Seitner, H.

2296 10036

Selecki, A.

7258 9175

Sellschop, J. P. F.

6358 10074 10075 10076

Seltz, R.

7903

Selyutin, R. P.

8972

Selz, J.

1217

Semel, S.

10368

ACTIVATION ANALYSIS—AUTHORS

Sen Sarma, R. N.

15

Sevryugova, N. N.

10411

Senftle, F. E.

171	445	446	447	2720
4282	6222	7414	8015	8018
8138	8179	8895	9055	9198
9308	9311	9426	10163	10168
10369				

Seyb, K. E.

9701

Seyfang, A. P.

448 449 472 1347 1429

Senko-Bulatnyi, I. N.

9216

Shabana, R.

2447 4319 5728 5729

Senoo, M.

6859 9038 9160

Shah, K. R.

9459 9568 9572 9740 9810
10388

Sens, J. C.

4209

Shah, S. D.

677

Serebryanyi, B. L.

6298 9345 9979

Shakun, N. A.

8412

Sergeeva, T. V.

6707

Shalpykov, A.

9700

Servian, J. L.

2148

Shamaev, V. I.

674 858 1215 1246 1247
3364

Setser, J. L.

212 988 1022

Shanks, D. E.

2498 4214 9436

Settle, D. M.

2517	3077	3101	3486	5979
6020	6033	6953	9399	9793

Sharipov, E. B.

9928 10286

Sevastyanov, Y. G.

1218

Sharma, H. D.

1902

Severa, F.

9339 9416 9587 10202

Sharp, R. A.

439

Sevier, P.

5409

ACTIVATION ANALYSIS—AUTHORS

Shimura, K. 2649 7330	Shneour, E. A. 839
Shinagawa, M. 2727 7894 8208	Shoji, H. 7906
Shinbori, Y. 6755 7299 7329 7332 8008 9322 9323	Shornikov, S. I. 1646 2965 8812 8813
Shinjo, Y. 7991	Short, H. G. 452
Shinogi, M. 7893	Showalter, D. L. 8085 9562 9733 10263
Shinomiya, C. 9061 9663	Shtan, A. S. 5317 5780 6706 7110 7342 10000 10002 10003 10004 10005 10007 10008 10009 10010 10011 10012 10015 10016 10017 10018 10019 10020
Shipman, G. F. 451	Shtasel, A. 910
Shiraishi, H. 1382	Shuba, I. D. 6834 7116 8158 8168 8193 9063
Shirokii, V. K. 9821	Shukolyukov, Y. A. 7252
Shiryayeva, M. B. 1885 3387 6707 8043	Shumway, R. H. 1851
Shishakin, O. V. 10149 10150 10151	Shvarts, R. O. 8907
Shkoda-Ulyanov, V. A. 4277 5319 8185	Shvartsman, M. M. 10025
Shmanenkova, G. I. 6053 6072	Shvartsman, N. E. 9090

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Siau, J. F.						Silvanovich, Y. A.				
9802						5787	7119	8110	8111	8377
						10415				
Sicilio, F.						Silverman, J.				
936						636	740			
Sidorov, A. V.						Silverman, R. H.				
10017	10019					400				
Sidorova, L. P.						Simkova, M.				
8165						1519	1545	2386	2878	3975
Sieber, P.						6692	9007	9120		
8870						Simnad, M. T.				
Sieberg, R.						453				
3794	7202					Simon, F. O.				
Siejka, J.						5959	9766	9778		
9763						Simon, L.				
Siewierski, J.						941	1219	9089	9235	
7090						Simonits, A.				
Sihvonen, M. L.						4231	9441			
9502						Simpson, G.				
Sijperda, W. S.						561	6458			
7987						Simpson, H.				
Siksin, V. S.						179	626	852	1220	1570
9090						6974	7874	8081	9199	
Siller, V.						Simpson, R. E.				
8823	10152	10191				6359	6940	7908	8422	9410
						9425				
Silva, C. M.						Singh, J.				
5358	5851	6674	7422	9116		5571				
10380						Singhal, N. S.				
						3356	6310	6753		

ACTIVATION ANALYSIS—AUTHORS

Sion, H.						Sklavenitis, H.				
1221						6001	9016			
Sippel, R. F.						Sklavenitis, L.				
455	9491					5875				
Sippel, R. S.						Skougstad, M. W.				
1148						2656				
Sircana, S.						Skovorodkin, N. V.				
10260						5318	7252			
Siri-Upatham, C.						Slater, D. N.				
10107						1185	3530	5742		
Sironi, G.						Slavic, I.				
1254						10133				
Sivokon, N. V.						Slepchenko, I. F.				
7214						783				
Sjoberg, H. E.						Sloan, R. W.				
1400	1893					1843				
Sjostrand, B.						Sloth, E. N.				
533	534	535	1100	1239		1230				
1288	2563	8904	9947							
Skakun, N. A.						Slott, R.				
8973	9001	9899				3962				
Skerra, B.						Slowey, J. F.				
9100	10094					2848	4219	4255	4291	
Skinner, W. A.						Slunecko, J.				
5751						1519	1545	2358	3975	7918
						9010				
Skippen, G. B.						Smakhtin, L. A.				
2839						985	3365	7969	9579	9580
						9583	9662	9684	9795	9796
Skjelbred, E.						9917	10293			
9633										

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Smales, A. A.

26	27	94	96	236
240	251	257	320	353
391	449	456	457	458
460	461	462	463	464
465	466	467	468	469
470	471	472	473	474
475	476	477	478	525
587	595	615	616	724
745	1145	1222	1275	1429
2338	2528	3979	4253	4266
5411	6306	7210	9541	9842
10098				

Smallwood, R. A.

7427

Smathers, J. B.

2141	5407	5743	7204	7985
8995				

Smirnov, A. A.

5704

Smirnov, V. F.

6832

Smirnov, V. I.

2337	9475
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Smirnov, V. N.

479	1280	3767	8044
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Smirnov, V. V.

5704

Smirnov-Averin, A. P.

1218	9982
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Smirnova, N. B.

2717

Smit, H. J.

10402

Smit, J. Van R.

239	240	478	526
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Smith, A. R.

9529

Smith, B. A.

1458

Smith, C. B.

10240

Smith, C. G.

6598

Smith, C. L.

9814

Smith, D.

8421

Smith, D. B.

6714	10349	10358
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Smith, E. M.

1750

Smith, E. R.

263

Smith, G. D.

3750	8273
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Smith, G. W.

1722	1801	2536	2537	4224
5985	7026	7176		

Smith, H.

154	309	310	378	481
565	651	675	788	1224
1225	1928	1977	1980	2565
2570	2572	2573	2719	2942
2958	2985	3507	3982	4267
5847	5944	6003	6042	6837
7087	7369	7370	8804	8927
9776	9777	9779	9882	10146

Smith, H. P.

3788

ACTIVATION ANALYSIS—AUTHORS

Smith, J. W. 155	Sokolov, L. A. 7411
Smith, L. H. 2706 4199	Sokolov, Y. A. 9439
Smith, P. B. 6372	Sokolova, M. N. 7168
Smith, R. H. 692 1323 1356 1634 5720 6010 7377 8074 10135	Solberg, D. E. 959
Smith, R. L. 273	Solodovnikova, I. D. 8349
Smith, R. R. 482	Soltys, M. N. 1289
Smith, V. 9076	Solvsten, S. 1241
Smithwick, G. A. 10365	Sommerkorn, G. 2615 9294 9773
Smythe, L. E. 3968 6038	Sondel, J. A. 2145 3061 5502 6312 9666 10241
Snow, K. B. 6951 7909 8289 8291 10031	Sonnino, T. 772
Sobatchkin, A. 773	Soper, R. B. 8276
Societa Ricerche Impianti Nucleari. 140	Sorantin, H. 1264 1273 1487 1492 1564 1830 1840 2601 2766 2950 3418 4191 4293 4308 4406 5438 5930 7303 9724 9770 9771 9891 10294 10418
Societe Anonyme de Machines Electrostatiques. 1619 1622	Soremark, R. 714 741 829 830 968 1317 1332 1512 1800 3086 4002 6055 6715 7882

ACTIVATION ANALYSIS – BIBLIOGRAPHY

Sorensen, J. C. 10240	Sparks, R. J. 7936				
Soroiu, M. 1416 5295	Specker, H. 6440 8830				
Sorokina, A. V. 5318	Speeche, A. 1066 1828 2610 2643 5772 5808 6398 6723 6728 7076 7289 7395 8917 8981 9093 9340 9571				
Soroyu, M. 7169	Spencer, D. W. 9814				
Sotskov, Y. P. 9582	Spencer, R. P. 486 487 488 489 730				
Soubeyrand, R. 1805	Spenger, R. E. 2347				
Soule, J. L. 57	Spenke, H. 1821				
Souliotis, A. G. 928 1057 1964 1971 2701 4272 5415 7257	Spettel, B. 10101				
Sova, J. 8253	Spevackova, V. 9978				
Sowden, E. M. 483 484 485	Spicer, G. S. 7910				
Soya, I. 8008	Spikes, J. D. 3747				
Spadaccino, E. 1260	Spira, J. 4386 9496				
Spaepen, J. 7358	Spitsyn, V. I. 1227 6720 7082 7083 10403				
Spalek, J. 3811	Spitz, H. 9715				

ACTIVATION ANALYSIS—AUTHORS

Spronk, N.						Starikova, N. A.				
1925	5993					5435				
Spyrou, N. M.						Stark, H.				
9894						61	1292	1732	1829	2636
						3987	5439	7194	7206	9649
Srapenyants, R. A.						9746	9873			
1443						Starke, K.				
St. John, L. E.						7951				
6437						Starnes, P. E.				
Stallwood, R. A.						8283	9167			
863						Starodubtsev, S. V.				
Stalnaker, N. D.						8152				
6374	10198					Starosta, A.				
Stamm, S. J.						9175				
4283	6688	6938				Startsev, Y. S.				
Stang, L. G.						10025				
1873						Startseva, E. A.				
Stanley, C. W.						10415				
1794	1888					Stary, J.				
Starchik, L. P.						1243	1244	1291	1346	1575
479	783	855	1280	3087		1579	1587	1588	1820	2153
3373	3374	3375	3376	3379		2154	3084	6334		
5325	5620	5778	5779	5854		Stauffacher, C. V.				
7109	7170	7862	7875	7924		9013				
8090	8186	8376	8961	9300		Steele, E. L.				
9522	9577	9910	9983	9984		712	845	1058	1228	1567
10024	10028	10271				1702	1712	1721	1852	1900
Starchik, M. P.						1912	2510	2598	2734	2947
3767						2948	3028	3353	3553	10115
Starfelt, N.						Steele, T. W.				
4000	5177	5238				6402	10074	10075	10076	
Starik, I. E.						Steen, H.				
490						2929				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Stefaniay, V. 10213						Stephens, W. E. 491				
Stefanov, G. 984 1754 2923 3739 5428 10155 10319						Stephenson, J. F. 10325				
Stehlik, G. 1370 1703 1767						Sterlinski, S. 902 1761 1884 2760 2989 4206 5341 5865 6381 6824 7244 8417 9127 9193 9194 9195 9197 9242				
Steim, J. M. 1462 1479 1870 3716						Stevancevic, D. B. 1274 1771				
Stein, M. N. 21						Stevenson, P. C. 3380				
Steinborn, T. L. 8235						Stevenson, R. A. 2732				
Steiner, N. 7280						Steward, K. P. 10231				
Steinnes, E. 50 1768 2597 2739 2853 3079 3470 3961 4192 4195 4305 5366 5370 5405 5713 5731 5960 6074 6083 6212 6673 6679 6685 6686 6687 6959 7148 7181 7367 7896 7913 7928 7929 7961 7965 8060 8071 8082 8824 8837 8909 8987 9169 9285 9707 9851 9942 9949 10110 10250 10269 10331						Stewart, D. C. 492 6986 10359				
Stejskal, R. 2878						Stewart, R. F. 9698				
Stella, R. 10278						Steyn, J. J. 7064				
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Stepanets, O. V. 7423 9102 9673						Stier, P. M. 1150 1340 2690				
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ACTIVATION ANALYSIS—AUTHORS

Stitch, S. R. 485					Strandberg, P. O. 9647
Stocker, H. J. 2678					Straub, R. F. 7321
Stockert, H. 2769 7281					Strause, B. M. 509
Stoenner, R. W. 493					Strauss, R. 6947
Stogova, G. B. 3374					Strebel, P. J. 6329 6339 6681
Stojanovic, N. 4267					Strelow, F. W. E. 1292
Stokely, J. R. 2157					Stribel, T. 494
Stolbov, Y. M. 9581					Strickland, E. H. 975
Stoll, N. 5450 5451 5452 7419					Strickland, G. T. 9686 9719
Stone, C. A. 185 414 665 1311 1611					Strigazzi, A. 9165
Strain, C. V. 6976 8325					Strohal, P. 5790
Strain, H. H. 1265					Struthers, J. D. 5402
Strain, J. E. 82 1268 1361 1638 1642 1796 1940 1941 2531 3058 3074 5711 9269					Strzyewska, B. 5862 8309
Strain, W. H. 1788 2124 6309 6712 6933 7246					Stuart, J. P. 9028
					Stubbins, M. I. 6004 7412

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Studier, M. H. 1230	Suhr, N. H. 9629				
Stueber, A. M. 10137	Suita, T. 2804				
Stuhl, Z. 88	Sukhov, G. V. 6053	6072	8163	9799	
Stukenbroeker, G. L. 52 53	Sulin, V. V. 1646	2965	3462	5950	7314
	8813	8817	9232	9233	9451
Stutheit, J. S. 8312	Sullivan, J. L. 6328	8889			
Subbotina, T. I. 5356	Sullzberger, R. 9819				
Suda, K. 2340	Sultankhodzhaeva, M. 8372				
Suddueth, J. E. 6318 6830 7025 7026 7176 7966 8306 8898 9467	Sultanov, A. 9642				
Sue, P. 8 495 496 497 498 499 1720	Sunderman, D. N. 1586				
Suematsu, S. 9331	Sundvoll, B. 10269				
Suffredini, C. S. 439	Surget, G. 8282				
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Sugisita, R. 1307	Surls, J. P. 1160				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Szokolýi, L.					Takahashi, S.				
1601	6990	8068	9981		9283				
Szuskiewicz, M.					Takano, K.				
8049					9045	9816			
Szysko, H.					Takaoka, N.				
8309					9181				
Tabushi, K.					Takeda, T.				
6858	9037				916				
Tabushi, M.					Takemoto, K.				
5777					5872				
Tachikawa, N.					Takenaga, T.				
6859	9038				6859	9038			
Taczanowski, S.					Takeo, T.				
7387	9750	10426			9932				
Tada, K.					Taketani, K.				
960					755				
Taira, S.					Takeuchi, T.				
9930					1510	9040	10156	10157	
Tajima, E.					Talanin, Y. N.				
999	9218	10158			6201	6301	6705	8116	8124
					8979	9526	9896		
Takaacs, G.					Talat-Erben, M.				
4216	5326				4221				
Takada, K.					Talbot, J.				
5432					502				
Takagi, S.					Talbot-Besnard, S.				
424					1621				
Takagi, T.					Talpova, H.				
2889	9762				939	1282	1392	1660	1662
					1664	1751	1752	3334	
Takahashi, H.									
6379	6729	6962							

ACTIVATION ANALYSIS — AUTHORS

Talvat, M.						Tankins, E. S.				
9182	9454	9483	9711	9768		9078				
Talwar, U. B.						Tanner, J. T.				
2811						1571	3352	4290	7386	9410
						9922	10217	10218	10268	
Tamachi, T.						Tanner, T. M.				
7299	7329					7077	8145	8146	9807	
Tamai, C.						Tanzawa, K.				
9040						8802				
Tamai, T.						Tar, J.				
9068						8825				
Tamura, M.						Tarras, S.				
5923	7296	7970	9305	9929		1036				
9930										
Tan, F. C.						Tasaki, A.				
9629						1496				
Tanaka, K.						Tasovac, T.				
2052						9945	10104	10132	10133	
Tanaka, S.						Tatar, J.				
1151	1194	1742				612	2940	2941	2956	7354
Tanarro Sanz, A.						Taure, I. Y.				
2968						2337	7131	8156	8164	8295
						9475	9911			
Tandon, S. N.						Tausend, A.				
6214						2775	4299	4300		
Tang, C. W.						Tay, S. K.				
6000	7187	8131				7931				
Tani, A.						Taylor, D.				
1115	1116	6853	7114	7177		152	1773			
7993	8046	9032								
Taniguchi, M.						Taylor, D. M.				
9204						1310	1411	5997	6007	6438
						7362				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|--|---|
| <p>Taylor, K. J.
5648 9501</p> <p>Taylor, N. K.
1853</p> <p>Taylor, T. I.
503 505 506</p> <p>Taylor, W. H.
407 2650</p> <p>Tejam, B. M.
10421 10424 10429</p> <p>Templeton, W. L.
8148</p> <p>Tensho, K.
9914</p> <p>Tenyakov, V. A.
9702</p> <p>Teofilovski, C.
2149</p> <p>Tera, F.
2277</p> <p>Terada, K.
4311</p> <p>Terao, T.
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3061 5502</p> <p>Teree, T. M.
6064</p> <p>Teresi, J. D.
123</p> | <p>Termanini, A.
7051 8003</p> <p>Terrani, M.
5735</p> <p>Terrani, S.
5735</p> <p>Terrell, C. W.
1785 2104 2364 6453</p> <p>Terrey, D. R.
2433</p> <p>Terrill, J. G.
9935</p> <p>Terry, R. A.
6712</p> <p>Tertoolen, J. F. W.
1690 8084</p> <p>Teschke, F.
9099 10101</p> <p>Teszler, O.
1073</p> <p>Texaco Development Corporation.
1772</p> <p>Texas A and M University.
156 671 3791</p> <p>Texas Nuclear Corporation.
618 680 1889</p> <p>Thackray, M.
1845</p> |
|--|---|

ACTIVATION ANALYSIS—AUTHORS

<p>Thatcher, L. L. 9944</p> <p>Theisen, A. A. 6442</p> <p>Thibodeaux, D. P. 9434</p> <p>Thiel, A. 1524</p> <p>Thiery, J. 1503</p> <p>Thilander, H. 968</p> <p>Thoma, C. 9294 9773</p> <p>Thomas, A. 93</p> <p>Thomas, A. M. 595</p> <p>Thomas, C. C. 2145 3061 5502 6312 7899 8323 8324 9666 9695 10201 10241 10362</p> <p>Thomas, C. W. 9807</p> <p>Thomas, G. E. 373</p> <p>Thomas, J. 9354 9355</p> <p>Thomas, J. P. 9050 9182 9454 9483 9768 10404 10427</p>	<p>Thomas, R. C. 2145 6312 8324</p> <p>Thomas, W. C. 2534</p> <p>Thomassen, J. 9942 9953</p> <p>Thompson, A. J. 1812 7867</p> <p>Thompson, B. A. 508 509 912 7000 7154 8019 8070 9379 10321</p> <p>Thompson, C. J. 7053 8318 9239 10300</p> <p>Thompson, G. 8196</p> <p>Thompson, G. A. 189</p> <p>Thompson, H. D. 255 322 6226</p> <p>Thompson, J. L. 8958</p> <p>Thompson, J. M. 6310 7059</p> <p>Thompson, M. 6457</p> <p>Thompson, M. F. 6309 6712 6933 7246 10275</p> <p>Thompson, T. J. 216 3059</p>
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ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|---|---|
| <p>Thomson, S. J.
3477 3478</p> <p>Thoresen, P.
1419</p> <p>Thorpe, J. D.
6012</p> <p>Thorpe, M. E. C.
6211</p> <p>Thorpe, M. M.
6714 10349 10358</p> <p>Thouzeau, G.
57</p> <p>Tiefenbach, B.
6308 6314 10395</p> <p>Tiffany, M. A.
6921</p> <p>Tikhonova, T. V.
9839</p> <p>Tilbury, R. S.
1340 2690 2697 3403</p> <p>Tittle, C. W.
510 679 5552</p> <p>Tittman, J.
1680</p> <p>Tiwari, P. N.
7104 9576</p> <p>Tjan, K. S.
9297 9835</p> <p>Tkachev, A. V.
8822</p> | <p>To-on, M.
936 1699 1912 2705</p> <p>Tobias, C. A.
138 512 513 1470</p> <p>Todd, A. P.
6211</p> <p>Todd, R.
1231 1347</p> <p>Todorovski, D.
8316 10192</p> <p>Toerien, F. V. S.
9870</p> <p>Toerien, P. V. S.
5410</p> <p>Tokunaga, O.
2464</p> <p>Tokunaga, T.
4302</p> <p>Tokyo Shibaura Electric Co. Ltd.
5943</p> <p>Tolbert, B. M.
160</p> <p>Tolgyessy, J.
1754 2923 3739 5428 5859
6847 9381 9450 9488 9883
10254</p> <p>Tolgyessy, Y.
984</p> |
|---|---|

ACTIVATION ANALYSIS—AUTHORS

Tollan, O. 9953						Tomson, G. I. 8863				
Tolmie, R. W. 9239 10298						Tomura, K. 572 2283 2340 3994 5927 6220 6379 6445 6729 6962 9456				
Tom, J. L. 6598						Tonna, E. A. 7321				
Tomcsanyi, A. 5416 9499						Topa, A. 1822				
Tominaga, H. 6859 9038 9160 9815						Topolcan, O. 8253				
Tomita, I. 1232						Topunov, V. V. 9090				
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Tomlinson, R. H. 2503 3956 6000 6735 7187 8011						Torgov, V. G. 6833 9361 10291				
Tomlinson, R. W. S. 155 6014 6827 10176						Toriumi, H. 1446				
Tomnovec, F. M. 175						Torizuka, K. 2440 9637				
Tomono, T. 9789						Torko, J. 2671 7347				
Tomov, T. 984 1754 2923 3739 5428 8157 10319						Toro G, J. 6992 8962				
Tompkins, A. 517						Torok, G. 6990 8068 9725 9981				
Tompkins, E. R. 267						Toropov, V. P. 10014				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|---|--|
| <p>Torralba, O.
9084</p> <p>Toshikawa, H.
8171</p> <p>Toth, G.
4270 5970 8099 10431</p> <p>Toth, L.
633</p> <p>Toth-Allen, J. E.
10264</p> <p>Tothill, P.
6846 7425</p> <p>Tousset, J.
4260 4325 5579 5580 6594
7007 7014 8845 8862 9182
9454 9483 9574 9768 10058
10404</p> <p>Towell, D. G.
1835</p> <p>Townshend, A.
9047</p> <p>Tran, M. D.
6594 7007 7014 10404</p> <p>Trauger, D. L.
10394</p> <p>Travesi Jimenez, A.
1883 2765 4249</p> <p>Travesi, A.
1833 2714 2752 2753 4250
5991 6999 7335 7938 9008</p> <p>Treuil, M.
10422</p> | <p>Trew, J. R.
1372</p> <p>Trofimov, V. L.
9510</p> <p>Troly, G.
1518 1538</p> <p>Trombka, J. I.
1284 7048 8015 8016 9426
10168</p> <p>Trussler, J. W. A.
7320</p> <p>Tsai, H. T.
5868 6727 9298 9303 9826
9827</p> <p>Tsanos, N. A.
686 1971 2701</p> <p>Tsarenko, A. F.
10403</p> <p>Tsarev, V. P.
9439</p> <p>Tschopel, P.
8078</p> <p>Tselishchev, S.
1762</p> <p>Tsepurnek, V. E.
7164</p> <p>Tsetskhladze, T. V.
2957</p> <p>Tsipenyuk, Y. M.
9380</p> |
|---|--|

ACTIVATION ANALYSIS—AUTHORS

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<p>Tsuji, H. 628 827 1111 1152 1202 1315 1656 1879 2384 5566 5924 6352 6842 6850 7893 9029 9463</p>	<p>Turkevich, A. 209 410 411 412 517 1212 4289 7933 9843</p>
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<p>Tsunoda, N. 7996 9336</p>	<p>Turkstra, J. 1825 5410 5761 6061 6346 6439 7939 7941 8053 8054 8190 8191 9011 9524 9547 9548 9870 10402</p>
<p>Tsurugi, J. 7315 8402 9504</p>	<p>Turner, G. 3081 9087</p>
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<p>Tucker, W. O. 7912</p>	<p>Turnock, A. C. 555</p>
<p>Tuckerman, M. M. 1746</p>	<p>Tushkova, R. Y. 8342</p>
<p>Tuma, D. J. 2434 2445 3062 6328</p>	<p>Tustanovskii, V. T. 3087 5620 5778 7170 7926 8961 9593 9685 9984</p>
<p>Tunncliff, D. D. 7041 7067 9014</p>	<p>Tuttle, R. F. 9937</p>
<p>Tupper, R. 33 34</p>	

ACTIVATION ANALYSIS—BIBLIOGRAPHY

- | | |
|---|--|
| <p>Tutubalin, A. I.
7214 7923</p> | <p>Ujihara, Y.
2711</p> |
| <p>Twitty, B. I.
952</p> | <p>Uken, E. A.
6358 6368 6740 6966 9257
9549 10074 10075 10076</p> |
| <p>Twitty, B. L.
1905 2122 2778 2798 3357
3981 8326</p> | <p>Ukita, T.
8802</p> |
| <p>Tyden, G.
5433</p> | <p>Ulfendahl, H. R.
930</p> |
| <p>Tyler, V. E.
9747</p> | <p>Umans, H. J. L. M.
6956 9174 9250</p> |
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7290 7291 8315</p> | <p>Umarov, M.
5705</p> |
| <p>U. S. Atomic Energy Commission.
520 1290 5849 6221</p> | <p>Umarov, M. U.
8121 8122 9513 9515 9516</p> |
| <p>Uakovlev, Y. V.
7423</p> | <p>Umarov, U.
5707</p> |
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7894</p> | <p>Umemoto, S.
9755</p> |
| <p>Uchiyama, A.
187</p> | <p>Umezawa, H.
357 1694</p> |
| <p>Ueda, H.
7993</p> | <p>Union Carbide.
1024</p> |
| <p>Uehara, S.
9040</p> | <p>United Kingdom Atomic Energy Authority.
1371 1923</p> |
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5726</p> | <p>University of Washington.
1806</p> |
| <p>Ufret, S. L.
2732</p> | <p>Untermeyer, S.
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ACTIVATION ANALYSIS—AUTHORS

<p>Upor, E. 1615 7149</p>	<p>Vajta, L. 4270 5970 8099</p>
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<p>Urbanski, T. S. 10245</p>	<p>Vakilova, G. 9880</p>
<p>Urlacher, C. 2632</p>	<p>Valentini, M. T. 1644 3955</p>
<p>Usenkov, V. N. 10026</p>	<p>Van Compernelle, G. 9735 9736</p>
<p>Usmanov, K. U. 9097</p>	<p>Van Den Berg, A. J. 6019 6954</p>
<p>Usmanova, M. M. 8109</p>	<p>Van Den Bergh, F. 9128</p>
<p>Ustinov, A. A. 9101</p>	<p>Van Den Berghe, H. 229</p>
<p>Utley, D. 8081</p>	<p>Van Den Broek, S. E. 1792</p>
<p>Uusma, K. 9647</p>	<p>Van Den Winkel, P. 5808 10372</p>
<p>Uyeda, S. 2437</p>	<p>Van Der Borgh, O. 5989</p>
<p>Vacik, J. P. 1233</p>	<p>Van Der Merwe, P. 6675</p>
<p>Vados, I. 7149</p>	<p>Van Domelen, B. H. 1946</p>
<p>Vaiss, K. F. 1329</p>	<p>Van Driel, W. 10281</p>

ACTIVATION ANALYSIS – BIBLIOGRAPHY

- | | |
|---|---|
| <p>Van Eesteren, J.
1516</p> <p>Van Erkelens, P. C.
2036 9229</p> <p>Van Grieken, R.
6398 6723 8981 9340 9571</p> <p>Van Heerden, I. J.
6675</p> <p>Van Kooten, W. J.
6013</p> <p>Van Loef, J. J.
7864</p> <p>Van Nahl, T. W.
1569 6362</p> <p>Van Puymbroeck, S.
5989</p> <p>Van Raaphorst, J. G.
2838 5996 6956 9174 9250</p> <p>Van Reenen, T. J.
6702</p> <p>Van Styvendael, M.
397</p> <p>Van Wyk, C. W.
8053 8054 9512</p> <p>Van Wyk, E.
10077</p> <p>Van Wyk, J. M.
2586</p> <p>Van Zanten, B.
866 880 986 1234</p> | <p>Van Zelst, L.
8194 9849 10280</p> <p>Vanatta, J. C.
413</p> <p>Vandergraaf, T. T.
10183</p> <p>Varcoe, F. T.
6998</p> <p>Varga, G.
10200</p> <p>Varga, L.
6069 8825</p> <p>Vartapetyan, B. B.
5435</p> <p>Vasile, M. J.
8894</p> <p>Vasilev, I. Y.
6834 7116 8193 9063</p> <p>Vasilev, S. S.
7924 9578 10324</p> <p>Vasilev, V. S.
8371</p> <p>Vasilevskis, J.
1187 1356</p> <p>Vass, S.
6703</p> <p>Vasserman, A. M.
8971</p> <p>Vassos, B. H.
2511</p> |
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Veal, D. J.	519	629	2619	6317	Veselsky, J. C.	8878			
Velchev, L.	9784				Vevere, I. E.	9903			
Velyus, L. M.	9578	10324			Veveris, O. E.	7131	8164	8295	9353 9674
Venet, A. M.	402					9722			
Venter, J. H.	5761	6691	6748		Vežranovski, E.	5966			
Verbeek, A. A.	2611				Vial, J.	7151			
Verbinski, V. V.	3717	8177			Vidal, J. P.	1518	1600	5968	8925
Veres, A.	1006	7389	9497	9536	Vikhitill, I.	1177			
Vergheze, K.	7898	9677			Vilaitong, T.	10274			
Verheijke, M. L.	818				Vilcsek, E.	9099			
Verkerk, B.	9344				Villar, G. E.	1348			
Vernadskii, V. I.	6366				Vincent, E. A.	522	523	524	525 724
Vernin, E.	1490	1640	1753	2667		1080			
Verot, J. L.	8852				Vincent, H. A.	1887	2354	2453	5739 6684
Verwey, J. H. P.	10281				Vincent, J.	521	2633		
					Vink, J. A. J.	9313			
					Vinnick, M. M.	9917			

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Vins, V.						Voigt, A. F.					
6337	6825					351	1283	1324	1802	1803	
						1849	2480	2495	2496	3775	
Vis, H. L.						5732	5740	7039	8910	9569	
1552	6011	6063				10295					
Viting, B. I.						Volborth, A.					
75	1238					1229	1294	1887	2354	2453	
						5322	5353	5739	6684		
Vitozhents, G. C.						Voldet, P.					
1646	2965	5950	7314	8813		2623	8058	9737	9748		
9233											
Vlasov, D. A.						Volfovsky, R.					
1068						1835					
Vlasov, V. S.						Volgemut, A. A.					
9654						9593					
Vlossak, P. A.						Volgin, V. I.					
9191						9796					
Vobecky, M.						Volokh, V. A.					
1610	2741	6828	7220	7285		9088					
7361	8998	9005	9464	9506							
9627	10078	10214	10423			Von Ardenne, M.					
						744					
Vodopivec, F.						Von Baeckmann, A.					
1770						2844	7890				
Voelker, F.						Von Der Fehr, F. R.					
77						6685	6686				
Vogel, J.						Von-Gunten, H. R.					
356	906	915	940	1321		1010	1012				
Vogg, H.						Voog, R.					
8182						9325					
Vogt, J. R.						Vorres, K. S.					
199	1017	1954	2506	2774		1295					
9937	10344	10345	10363								
Vogt, R. H.						Vorsatz, B.					
6976						6703	10126				

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Vorzhishek, M.						Waggoner, J. A.				
1877						1052	5384			
Vos, G.						Wagner, A.				
5987						5450	5451	5452	7419	
Voshage, H.						Wagner, C. D.				
9099						205	733	861	1014	1163
Voss, F. S.						Wagner, D. G.				
261						6437				
Vosters, M.						Wagner, H. N.				
10083						962	1750			
Vozzhenikov, G. S.						Wagner, R. T.				
9510						1967				
Vukmirovic, V.						Wahba, S. S.				
10104						2870	5368	10334		
Vukotic, R.						Wahl, W. H.				
10104						859	1150	1334	1340	1788
						2382	2499	2662	2676	2690
						2697	2789	7111	7141	
Vyaznikov, E. P.						Wahlgren, M. A.				
8278						436	1863	2516	2799	3465
						4294	6029	6731	6986	7390
Waaler, T.						10359	10389			
6673	6679	6687								
Wacks, M. E.						Wainerdi, R. E.				
5745						273	574	590	642	845
						936	1029	1033	1058	1359
						1567	1625	1702	1712	1721
Wada, N.						1809	1866	1912	2520	2529
6859	9038					2586	2691	2740	3064	3461
						3491	3493	3494	3662	3790
						3797	5434	5975	6066	6404
Wade, J. T.						6740	6861	6937	6966	6967
2519						7008	7346	7872	7922	8408
						8887	8926	8970	8995	9042
						9077	9125	9257	9284	9330
Wagener, K.						9431	9493	9538	9558	9865
4278						9951	9957	10338		
Wager, L. R.						Wakat, M. A.				
526	724					7058				

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Waki, A.	4207	5472	7282	8001	Walters, R. R.	1230	9085				
Wakita, H.	1401	2437	7193	8240	8982	Walton, A.	9741				
	9435	9473	9543	9734	10100	Walton, R. B.	10378				
Wald, M.	9925					Wang, C. C.	9686				
Walis, L.	1030					Wang, H. C.	5437				
Walker, F. W.	1236					Wang, J. L.	7327				
Walker, L. J.	2524					Wangen, L. E.	9070				
Walker, R. L.	8958					Wanke, H.	142	143	217	268	269
Walker, R. M.	10253						528	529	530	8964	8965
							9099	9811	10101		
Wall, G. J.	10075					Warburton, J. A.	7146	7147	10221		
Walls, H. J.	7324					Ware, A. R.	9588	10043	10277	10428	
Walsh, J. R.	9924					Washington Post.	1955				
Walsh, W. K.	1073					Washington, W. D.	10031	10032			
Walters, L. J.	9866	9962	10303			Wassen, A.	565	1225	2570		
Walters, R. M.	6049					Wasserman, A. M.	9380				

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Wasson, J. T.	1266	3476	5365	6214	7107	Webb, R. W.	9002				
	8237	9310	9589	9833							
Watanabe, K.	572					Weber, D. A.	9556				
Watanabe, S.	10288					Weber, E. J.	2969				
Watanabe, T.	2283					Weber, G.	6059	8886	9465	9468	
Watanabe, Y.	1128					Webster, R. K.	469	595	1222	7052	7247
							9857	10098			
Waters, J. B.	6229					Webster, W.	6068				
Watson, B. T.	527					Wechter, M. A.	1597	1803	3775	5732	5740
							6972	9118			
Watson, J. E.	7412					Weick, C. F.	433				
Watt, J. S.	9533					Weigand, P. W.	9860				
Watterson, J. I. W.	6358	6368	10077			Weiner, J. R.	989	1092	1253	2541	
Wayman, C. H.	937	1237				Weinrich, L. A.	9205				
Weaver, J. N.	7898	9677				Weinstein, S. T.	7378				
Weaver, M. L.	2929					Weisbin, C. R.	10349				
Webb, M. S. W.	10098										

ACTIVATION ANALYSIS—BIBLIOGRAPHY

<p>Weitman, J. 9575</p> <p>Wells, D. K. 6598</p> <p>Wellwart, Y. 2157 3126</p> <p>Welwart, Y. 772 782 1025 1070 1645</p> <p>Wendt, H. R. 881</p> <p>Wenger, P. E. 1321</p> <p>Wenner, C. G. 2852 5771 6965</p> <p>Wenzl, H. 8841</p> <p>Wesch, H. 8988</p> <p>Wester, P. O. 504 1089 1134 1412 1766 1797 1920 2308 2638 2639 2776 2819 2999 5785 6697 6831 9590</p> <p>Westerboer, S. 8051</p> <p>Westermark, T. 317 533 534 535 560 573 620 1114 1239 2563 3734 8904 9947</p> <p>Westgaard, L. 2754</p>	<p>Westin, B. 385</p> <p>Weston, N. T. 6376</p> <p>Wethington, J. A. 959</p> <p>Wey, M. T. 995 2426 4269</p> <p>Wezranowski, E. 8959 9158 10245</p> <p>White, E. A. D. 9266</p> <p>White, E. M. A. 33 34</p> <p>White, J. C. 2673 7352 7892</p> <p>Whitley, J. E. 622 3466 3480 5933 6367 9846 10161</p> <p>Wiberley, J. S. 1850</p> <p>Wichmann, P. A. 9002</p> <p>Wicker, E. E. 9540</p> <p>Widell, M. 560</p> <p>Wiehart, H. 2655</p>
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ACTIVATION ANALYSIS—AUTHORS

Wiernik, M.						Williams, A. I.				
	7032	7398	8035	8203	9133		452	537	1240	
	9358	10225	10226	10227						
Wiesner, L.						Williams, D. D.				
	1390	2746					729	1123		
Wiesner, S.						Williams, D. R.				
	10224						6742	9670	9721	
Wiggins, P. F.						Williams, G. H.				
	8018	8895	9311	9615	9630		2254			
	9772	10163	10369			Williams, H. A.				
Wiik, H. B.							7427			
	9618					Williams, J. D.				
Wilcox, G. E.							1311			
	7065					Williams, J. L.				
Wilcox, T. R.							8012	9550	9898	
	6209					Williams, J. R.				
Wilczynski, J.							9716			
	10216					Williams, M.				
Wildeman, T. R.							1930			
	6343					Williamson, T. G.				
Wilkins, W. W.							6955	8858	9608	9612 10116
	1058	1712	1721	1809	1866	Wilson, H. H.				
	2703	9493					10371			
Wilkniss, P. E.						Wilson, H. W.				
	1330	1730	2379	3992	4198		3489	3499	8997	
	4273	5420	6585	6843	7024					
	7249	7952	9428	9694		Wilson, J. D.				
Willard, J. E.							10098			
	536					Wilson, R.				
Willers, G.							1860			
	2775	4299	4300							

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Wilson, W. E.					Wohlleben, K.				
2123	4283	5733	5746	6688	5957	6581	6583	6736	7307
6938					7905				
Wilzbach, K. E.					Wojtkowska, J.				
256					621	1859			
Winchester, J. W.					Wolberg, J. R.				
538	623	654	739	748	294				
913	981	1060	1216	1266					
1457	1569	1726	1835	1872					
1874	2672	2693	2763	2873					
5397	6017	6362	6363	6364					
6365	6921	7312	8290	9004					
9012	9264	9357	9938	9962					
10050	10297	10383							
Wing, J.					Wolfe, R.				
1297	2516	2799	3465	4294	138	513	8198		
6731	6986	7390							
Winkelmann, R. K.					Wolfe, R.				
9552					2644	5591	5592	6369	6689
					8966	9100	9808	10094	10381
					10382				
Winteringham, F. P. W.					Wolfstirn, K. B.				
539	540	541	543		8880				
Winters, R. W.					Wolicki, E. A.				
10114					5543	7011	8277	8890	
Wiseman, J. D. H.					Wong, K. M.				
616					1324				
Wlotzka, F.					Wong, K. Y.				
9099	9811				5981				
Wodkiewicz, L.					Wong, P. Y.				
248	1133	1135	1542	5861	8052				
7091									
Wogman, N. A.					Wood, A. J.				
9511	9818	10366			469	470	471	473	1921
					Wood, D. A.				
					6698	8387			
					Wood, D. E.				
					1407	1875	1950	1956	2542
					2569	2577	2580	3796	5748
					6075	6841	7907	9049	9597
					9758				

ACTIVATION ANALYSIS—AUTHORS

Wood, E. D. 9871						Wu, S. C. 8833				
Wood, G. A. 7958	8031	8860	10236			Wulff, J. 1966				
Wood, H. L. 1572						Wyld, G. E. A. 7041	7067	9014		
Wood, J. D. L. H. 1701	2526	2527	7028			Wylie, A. W. 8079				
Woodcock, A. H. 6361						Wytttenbach, A. 1010	1012	1973	2645	3998
							6353	6378	6734	7209
Woodman, F. J. 670						Yabuki, H. 10222				
Woodruff, G. L. 2123	4283	5733	5746	6688		Yagi, M. 1298				
	6938									
Woods, J. D. 2480	2496					Yaguchi, G. 9039				
Woodward, K. T. 2585						Yajima, S. 375	606	607	608	899
							971	997	998	1038
Wormall, A. 33	34						1299	1300	1654	1672
							1682			1679
Worwood, M. 6007	6438	7362				Yakeley, W. L. 8293				
Wright, G. A. 6227	8252					Yakovlev, Y. V. 241	544	662	785	902
							985	1068	1203	1648
							3732	5786	8307	8971
							9110	9111	9380	9673
Wright, H. W. 1060						Yakovleva, M. A. 8907				10069
Wrigley, R. C. 1478										

ACTIVATION ANALYSIS—BIBLIOGRAPHY

Yakubovich, A. L.	1885	8043	10026			Yamamoto, T.	9305			
Yakubson, K. I.	1559	5555				Yamamoto, Y.	6688	6938	7295	9247
Yamabayashi, H.	7283	9283	9832			Yamane, Y.	9263	9939		
Yamada, K.	754					Yamashita, H.	2800			
Yamada, Y.	804	1515	9040			Yanagisawa, I.	5929			
Yamagata, N.	999	1563	7887			Yankovskaya, T. A.	8113	8123		
Yamagishi, M.	7330					Yankovskii, A. V.	3464	5320	8341	8371
Yamagishi, S.	215	775	777	945	992		8373	8815		8372
	994	1003	1009	1139	1140	Yanshkevich, V. A.	2660			
	1349	1409	1420	1497	1533	Yase, Y.	7991			
	1631					Yasunaga, T.	572	922	1693	
Yamaki, N.	5923					Yatazawa, M.	9653	9913		
Yamamichi, K.	7315					Yatsurugi, Y.	7019	9113		
Yamamoto, K.	5922					Yavorsky, P. M.	2933			
Yamamoto, M.	9801									
Yamamoto, R.	575	820								
Yamamoto, S.	5361	7046								

ACTIVATION ANALYSIS – AUTHORS

Yazawa, K. 1408	Yoshioka, M. 9762
Yazikov, I. F. 7388	Yoshisaki, M. B. 4258
Yeh, K. L. 9914	Youh, C. C. 7096
Yeh, S. J. 1909 9686 9719	Youmans, A. H. 996 1686
Yokoyama, H. 7223	Young, H. E. 9395
Yon, E. 4347	Young, L. G. 7146 7147
Yonezawa, C. 9060 9178	Young, M. H. 3356 6310 7047
Yoshida, H. 1509 2683 9060 9107 9108 9178	Yuasa, Y. 7177
Yoshida, J. 7315	Yuita, K. 5925
Yoshihara, K. 7995 9306	Yuki, M. 5919
Yoshikawa, H. 5929	Yukina, L. V. 9528
Yoshikawa, M. 10053	Yuldashev, A. Y. 9097
Yoshimasu, F. 7979 7991	Yule, H. P. 659 951 1327 1620 1649 1673 2116 2452 2595 2689 3798 6087 6861 6937 7050 7060 7069 9042 9257 9854
Yoshimura, Y. 4311	

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|--|---|
| <p>Yunusov, M.
6201</p> <p>Yuster, P. H.
133</p> <p>Yutaka, M.
1399</p> <p>Zadvornyi, A. S.
7214 8412 9001 9899</p> <p>Zahringer, J.
493 8968</p> <p>Zaichik, V. E.
8822 9693 9703</p> <p>Zaitsev, E. I.
949 2747 9582</p> <p>Zakharov, E. A.
10068</p> <p>Zakharova, S. N.
9917</p> <p>Zakhidov, A. S.
5858 7410 8127 8160 8380
8381 9642</p> <p>Zakhvataev, B. B.
10258</p> <p>Zalesskii, V. Y.
949</p> <p>Zamfir, I.
3759</p> | <p>Zamyatina, V. N.
1235 2369</p> <p>Zamyatnina, V. N.
871 1191</p> <p>Zanardi, M.
6397</p> <p>Zaporozhets, V. M.
3462 9231</p> <p>Zappe, D.
8183</p> <p>Zaric, M.
10132</p> <p>Zarzecka, E.
7355 8959 9158</p> <p>Zasukhin, E. N.
7165</p> <p>Zdanovich, I. D.
5779</p> <p>Zegers, C.
6954 9712 10211 10281</p> <p>Zelenay, K.
10064</p> <p>Zelenay, T.
8386</p> <p>Zelenin, V. M.
4196</p> <p>Zeller, J.
1495</p> <p>Zeman, A.
1121 1243 1244 1291 1587</p> |
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ACTIVATION ANALYSIS—AUTHORS

Zeman, A. (continued)

1588 1820 1974 2154 2845
3084

Zemchikhin, E. S.

10040

Zenger, J. H.

1052

Zhalin, A. I.

3732

Zhadin, V. S.

978

Zhavoronkov, N. M.

10411

Zhavoronkov, V. Y.

2966

Zheltikov, A. N.

5577

Zhivkov, Z.

984

Zhuk, L. I.

8160 8351 8380 8381 8978

Zhuravskaya, E. V.

3729

Ziemer, P. L.

1259 4329

Ziessow, D.

4278

Ziffermayer, G.

6725

Zimen, K. E.

4278

Zimmerer, J.

8988

Zinovev, N. V.

7132 8129 8153 8275 8368
8369 8370 8974

Zitnansky, B.

1363 1574

Ziv, D. M.

1430

Ziv, L. A.

9997

Zivkov, Z.

2923

Zmija, J.

9971

Zmijewska, W.

1245 3091 5697 5865 7092
7122 7868 9048 9643 10059
10294 10329

Zold, E.

10431

Zoller, W. H.

6364 8331 10384

Zonderhuis, J.

2838 3738 4230 7408 8159
8914 9417 9847 9853 10233
10306

Zoukis, M.

8000

Zschuppe, K. H.

6924

ACTIVATION ANALYSIS – BIBLIOGRAPHY

<p>Zuber, K. 619 4328</p> <p>Zubkoff, P. L. 9812</p> <p>Zuppinger, K. 3959</p> <p>Zverev, B. P. 1207 1546 1547 1561 3361 8108 8109 8152</p> <p>Zvyagin, V. I. 1207 1546 1547 1548 1561 1769 3361 3384 3388 3736</p>	<p>Zvyagina, L. S. 1769 3388 3736 8130</p> <p>Zvyagintsev, O. E. 545 674 1246 1247</p> <p>Zweifel, K. A. 10093</p> <p>Zweig, G. 932</p> <p>Zyskowski, C. L. 1865</p> <p>Zyubko, V. A. 6573 8972</p>
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