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14-MeV Neutron Generators in Activation Analysis: A Bibliography

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PREFACE

This bibliography is the fourth of a series of bibliographies on the application of Activation Analysis to specific subjects. The bibliographies in this series are produced from the master files of the Analytical Chemistry Division's Activation Analysis Information Center and will be periodically updated.

W. Wayne Meinke, Chief
Analytical Chemistry Division

14-MeV NEUTRON GENERATORS IN
ACTIVATION ANALYSIS: A BIBLIOGRAPHY

G. J. Lutz, Editor

The literature of 14-MeV neutron generators in activation analysis is reindexed in detail with respect to Element Determined, Matrix Analyzed and Technique Used for precise literature searching. An author index is included.

Key words: Activation analysis, element determined, 14-MeV neutron generators, matrix analyzed, technique used.

INTRODUCTION

This publication, 14-MeV Neutron Generators in Activation Analysis: A Bibliography, is one of a series of specialized bibliographies on Activation Analysis, prepared by the Analytical Chemistry Division's Activation Analysis Information Center.

Publications obtained by the center for inclusion in the Activation Analysis Literature Storage and Retrieval Systems are indexed according to the broad categories of Element Determined, Matrix Analyzed and Technique Used. Currently there are 106 descriptive terms under Matrix Analyzed and 53 under Technique Used.

Candidates for inclusion in this bibliography were selected from the technique category Accelerator Sealed Tube-Neutrons. Those publications considered relevant to activation analysis have been reindexed with greater detail with respect to Matrix Analyzed and Technique Used, thus allowing users to make very specific searches on topics of interest.

An author index has been included and it is hoped that readers will point out omissions to the editor. It is intended to publish revisions of this bibliography at appropriate intervals.

The editor wishes to thank Mr. R. J. Boreni of the Activation Analysis Literature Center for his very substantial efforts on behalf of this bibliography.

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OLIVE, G.	1815 1896 1922 5409
ONODERA, K.	7114
OP DE BEECK, J.	7259
ORANGE, J.M.	1981 2512
ORDOGH, M.	2806
ORIFKHODZHAEV, U.	7926
OSBORN, S.B.	155 6014
OSHRY, H.I.	695
OSTACHOWICZ, J.	3335
OWSIAK, T.	6325
PALMER, H.E.	7102
PARKER, C.V., JR.	2410 3076 3794 3976
PASZTOR, E.	1602 2761 6022
PASZTOR, L.C.	1950 2542
PAULY, J.	977
PERDIJON, J.	1304 1640 1753 2983 3090 3980 5443 5708 6357 7302
PERSIANI, C.	6065 7301
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QUIGLEY, D.A.	7320
RAVNIK, V.	7413
REED, J.H.	6971 7967
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RICCI, E.	1593 1939 7881
RICH, C.	7102
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SMAKHTIN, L.A.	7969
SMITH, D.B.	6714
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SPEECKE, A.	5772 6398 6723 6728 7076 7289
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STEELE, E.L.	712 1721 1900 1912 2598 2734 3553
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STENSLAND, W.A.	1802
STOCKER, H.J.	2678
STOLL, N.	5450 5451 5452 7419
STRAIN, J.E.	1940 3058 3074 5711
SUDDUETH, J.E.	6318 6830 7025 7026 7176 7966
SUZUKI, H.	5920
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TACZANOWSKI, S.	7387
TADA, K.	960
TAKADA, K.	5432
TALANIN, Y.N.	6201 6301 6705
TAMURA, M.	5923 7296 7970
TANI, A.	1115 1116 7114
TAYLOR, D.	1773
TERREY, D.R.	2433
TEXAS NUCLEAR CORPORATION	618 680 1889
THORPE, M.M.	6714
TITTLE, C.W.	679
TOMCSANYI, A.	5416
TOMLINSON, R.W.S.	155 6014
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TOUSSET, J.	4260
TROMBKA, J.I.	1284
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TSUJI, H.	628 1152 1656 2384 6352
TUCKER, W.O.	7912
TURNER, S.E.	518
TUSTANOVSKII, V.T.	3087 5778 7926
TUTUBALIN, A.I.	7214 7923
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VAN WYK, J.M.	2586
VASS; S.	6703
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VERNIN, E.	1640 1753 2667
VINCENT, H.A.	1887 2354 2453 5739 6684
VOELKER, F.	77
VOGT, J.R.	199 285 1017 1954 2506
VOIGT, A.F.	1802
VOLBORTH, A.	1229 1294 1887 2354 2453 5322 5353 5739 6684
VORSATZ, B.	6703
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WAGGONER, J.A.	1052 5384
WAGNER, A.	5450 5451 5452 7419
WAINERDI, R.E.	936 1033 1721 1912 2586 3790 6404 6967
WALKER, L.J.	2524
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WATERS, J.B.	6229
WATTERSON, J.I.W.	6358
WEBER, G.	6059
WILKINS, W.W.	1721
WILKNISS, P.E.	4273 5420
WING, J.	1297
WOJTKOWSKA, J.	621 1859
WOOD, D.E.	1407 1875 1950 1956 2542 2569 2580 3796 6075 6841 7907
WOOD, J.D.L.H.	1701 2526 2527 7028

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YAMAKI, N.	5923
YAVORSKY, P.M.	2933
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YUNUSOV, M.	6201
YUTAKA, M.	1399
ZADVORNYI, A.S.	7214
ZENGER, J.H.	1052

APPENDIX II

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

ALUMINUM

518 961 1414 1813 1889 2498 2504 2526 2622 2764 3075 3355
3753 3976 5383 5384 5978 6229 6301 6352 6845 6967 7293
7301 7302 7320 7338 7403 7404 7902

ANTIMONY

3355 3487 7923

BARIUM

1670 1738 1815 2498 3355 6301 7217

BROMINE

5714 5920

CALCIUM

155 1738 6014 6229 6975 7102 7318 7338 7403 7968

CERIUM

546 1978 2498 5778

CHLORINE

155 1217 1514 1670 1738 1815 2498 3355 6014 7026 7102 7176
7338 7403 7902

CHROMIUM

6743

COBALT

1813

COPPER

621 1815 1859 3075 3487 5383 5403 6301

ERBIUM

5778

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

FLUORINE

1084 1514 1813 2433 2498 2666 2796 2987 4261 4392 5445

GALLIUM

3487

GOLD

6358

IODINE

7026 7176

IRON

961 1815 2526 3075 5383 5384 6229 6301 6743 6845 6967 7217
7302 7404

LANTHANUM

1978

MAGNESIUM

961 1217 2526 3075 5383 5384 5978 6301 6967 7338

MANGANESE

1813 6743 7411

MOLYBDENUM

3487

NEODYMIUM

3087 5778

NICKEL

1813

NITROGEN

696 1670 1738 1939 2129 2384 2524 2569 3364 5420 5782 7102
7219 7297 7400 7413 7907 7970

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

OXYGEN

131 199 426 519 629 762 977 1067 1103 1104 1116 1229 1248
1258 1294 1297 1309 1394 1399 1414 1453 1489 1589 1739
1802 1804 1887 1889 1900 1939 1950 1954 1956 2129 2418
2453 2498 2504 2505 2506 2518 2526 2542 2549 2580 2586
2598 2615 2649 2678 2734 2749 2764 2798 2802 2983 3073
3085 3090 3355 3357 3502 3553 3718 3746 3973 3981 4260
5321 5322 5353 5380 5384 5409 5431 5432 5450 5451 5452
5708 5772 5780 5781 5923 6065 6684 6694 6705 6722 6728
6750 6845 6856 6967 6973 7076 7097 7142 7201 7214 7289
7290 7291 7301 7330 7337 7344 7351 7387 7417 7419 7912
7915 7917 7969

OXYGEN-18

3063

PHOSPHORUS

936 1670 1738 1815 1899 1939 2129 2384 2498 2705 2764
2849 4273 7102 7219 7338 7403

PLUTONIUM

6713

POTASSIUM

5384 7338

PRASEODYMIUM

546 960 1115 1978 2498 3087 5778

SAMARIUM

5778

SCANDIUM

1813

SELENIUM

2764 7926

14-MEV NEUTRON GENERATOR-ELEMENT DETERMINED

SILICON

518 628 961 1017 1297 1414 1535 1875 1889 1954 2354 2498
2504 2506 2526 2596 3075 3355 3753 3976 4205 5383 5384
5416 5720 5739 5776 5884 6201 6229 6301 6352 6398 6404
6684 6723 6845 6967 6975 7293 7301 7302 7338 7403 7404

SILVER

1955 3487 6222

SODIUM

155 961 1217 1813 1968 2498 2519 5384 6014 6301 6973 7102
7351

SULFUR

1815 2129 2764 2849 5923 6973 7296 7351

TERBIUM

5778

TITANIUM

3355 6065

URANIUM

3074 6713 6714

VANADIUM

6065 6743

YTTRIUM

2498 5778

ZINC

1670 1738 1815 3075 3487 5383 6845

APPENDIX III

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

ALUMINUM

5409 5432 6694

ALUMINUM ALLOYS

1804

BERYLLIUM

1103 1104 2505 2549 3073 7097 7214

BIOLOGICAL, IN VIVO

155 6014 7102 7318 7968

BISMUTH ALLOYS

7923

BRASS

5403

CEMENT

6229 6352 6975

CESIUM

131

COAL

1414 1798 1889 2504 2622 3753 6229 6301 7202 7293

COPPER

7387

CORROSION PRODUCTS

3075 5383

CORUNDUM

6201

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

FERROSILICON

2418

FERTILIZERS

1899

FISSIONABLE MATERIAL

3074 6713

FOODSTUFFS

2384 2569 7219 7297 7413 7907

GELS

4261

INORGANIC COMPOUNDS

1514 1939 7217

INORGANIC OXIDES

6065

IRON, STEEL

628 1394 1453 1875 1950 1956 2526 2542 2586 2596 2615 2649
2678 2764 2983 3357 3981 5380 5389 5450 5451 5452 5708
6398 6723 6728 6856 7076 7142 7289 7290 7291 7330 7344
7419 7917

LIQUID LOOP SYSTEMS

1407 2666

MAGNESIUM

2798 3357 3981

MARINE SEDIMENTS

5776

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

METALS, GENERAL

426 1067 1399 1589 1739 2678 2749 2802 3090 3502 3746 3796
5772 6722

METEORITES

199 1017 1297 1813 1954 2506 5720 5884

MINERALS, ORES

518 546 621 1294 1859 1955 1968 1978 2526 2720 3366 3460
3976 4282 6222 6229 6358 6845 7202 7302 7926

MOLTEN SALTS

2498

MOLYBDENUM

5321 6705

NICKEL

6743

NICKEL ALLOYS

7320

NIOBIUM

5781 5782

OCEAN BOTTOM CORES

961

ORGANIC COMPOUNDS

519 696 977 1084 2433 2519 3364

PETROLEUM PRODUCTS

1535 1670 1738 1815 1899 2705 3355 4205 5923 6357 6973
7296 7351 7970

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

PHOTOGRAPHIC EMULSIONS

7026 7176

PLANETARY AND LUNAR SURFACES

253 658 996 1033 1052 1284 1721 1912 3790 5261 6971 7967

PLANT MATERIAL

1899 5445 5978 7338 7403

POLYMERS

3973 7969

POTASSIUM

1900 2598 2734 3085

PROPELLANTS

4273 5420 7902

PROTEIN

2129

RARE EARTHS

960 1115

REFRACTIONS

7201

ROCKS

199 936 1229 1294 1297 1304 1887 1899 2354 2453 2705 5322
5739 5884 6404 6684

RUBBER

2524

SOIL

2720 7404

14-MEV NEUTRON GENERATOR-MATRIX ANALYZED

SPUTUM

5416

STABLE TRACERS

5920

THIN FILMS

7301

TITANIUM

3357 3981 5431 5781 6750

VOLCANIC ASH

6967

WATER

1217 2666 5920

WELDS

7417

ZINC SOLUTIONS

2796

ZIRCALLOY

1309

ZIRCONIUM

762

APPENDIX IV

14-MEV NEUTRON GENERATOR-TECHNIQUE USED

GENERAL REVIEWS

567 591 679 716 917 921 1046 1056 1172 1394 1397 1450 1453
1489 1508 1522 1530 1626 1666 1667 1698 1773 1896 1922
1940 2617 2667 2674 2802 2806 2933 2975 2983 3058 3411
3487 3495 3496 3497 3502 3553 3796 5383 5389 5450 5708
5772 5780 6075 6357 6722 6840 6978 7142 7289 7291 7337
7344 7417 7917

FACILITIES, CONTROL SYSTEMS

285 898 972 1054 1067 1115 1116 1399 1804 1899 1905 1950
1954 1956 1981 2297 2410 2504 2542 2549 2598 2705 2749
2778 3335 3718 3751 3794 3976 4392 5380 5451 5772 5784
6728 6975 7290

ACCELERATOR, TECHNICAL ASPECTS

77 204 376 680 1054 1602 1619 1640 2561 2761 3058 6022
7419

PORTABLE GENERATORS, IN SITU ACTIVATION, SEALED TUBES

695 961 996 1033 1052 1284 1701 2527 2620 2720 4282 6222
7027 7028 7029

TARGETS

324 1054 1640 1753 1981 3810

NEUTRON YIELDS, FLUX DISTRIBUTION, MONITORING, INTERNAL STANDARDS

316 1046 1054 1258 1437 1593 1640 1753 1940 1954 1956
1981 2418 2512 2798 3357 3364 3981 4228 4260 6059 6398
6402 6404 6703 6728 6730 6841 7259 7881 7915

CROSS SECTIONS, SENSITIVITIES, YIELDS

618 678 712 972 996 1046 1152 1284 1304 1353 1399 1407
1640 1656 1666 1753 2297 2567 2568 2617 3980 6340 7114
7313 7966

TABULATIONS OF GAMMA RAY SPECTRA FROM PRODUCTS

972 1640 1656 1899 2567 6340

14-MEV NEUTRON GENERATOR-TECHNIQUE USED

SAMPLE POSITIONING AND ROTATING, PROBLEMS OF INHOMOGENEITY AND NON-UNIFORM SAMPLE

1864 1956 1981 2433 2512 2615 2678 2734 3781 5339 5353
5443 5711 6325 6841

IN STREAM FACILITIES

1407 1414 1798 2410 2504 2666 3076 3460 3794 3976 4392
5764 6229 7030 7031 7202 7351

INTERFERING REACTIONS

628 696 1103 1899 2580 2989 3355 4260 4273 5416 5757 5772
5978 6014 6718 6723 6743 7296 7970

SELF SHIELDING AND CONTAINER CORRECTIONS

500 1248 5923 6318 6694 6728 6830 7025 7076 7387 7400

OXYGEN DETERMINATIONS COMPARED WITH OTHER METHODS

426 500 519 1589 1739 1900 1950 2297 2542 2549 2586 2598
2649 3073 3085 3090 5431 5432 5452 5772 7330 7912

THERMAL NEUTRONS

1813 3074 7411

2.8 MEV (D,D) NEUTRONS

2720 4214 6222 7026 7313 7966

CYCLIC ACTIVATION

7033 7460 7962

NEUTRON INELASTIC SCATTERING

5384

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