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30 reference(s) found:

Keynumber: 1999ZHZM

Reference: INDC(CPR)-049/L, p.76 (1999)

Authors: C.Zhou

Title: Prompt γ -Ray Data Evaluation of Thermal-Neutron Capture for A = 1 ϑ 25

Keyword abstract: NUCLEAR REACTIONS ¹, ²H, ⁶, ⁷Li, ⁹Be, ¹², ¹³C, ¹⁴N, ¹⁶, ¹⁷O, ¹⁹F, ²⁰, ²¹,

²²Ne, ²³Na, ²⁴, ²⁵Mg(n,γ),E=thermal; compiled, evaluated prompt γ-ray data.

Keynumber: 1999VA07

Reference: Nucl.Instrum.Methods Phys.Res. A422, 874 (1999)

Authors: S. Van Lierde, F.De Corte, D.Bossus, R.van Sluijs, S.Pomme

Title: Determination of k_0 and Related Nuclear Data for Short-Lived Radionuclides to be used in

KAYZERO-NAA at DSM Research

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ⁷⁰Zn, ⁷⁶Se, ⁷⁹Br, ¹⁰³Rh, ¹⁰⁸Pd, ¹⁰⁹Ag, ¹²³Sb,

¹⁷⁸Hf, ²⁰⁴Hg(n,γ),E=reactor; measured Eγ,Iγ; deduced k_0 for neutron activation analysis.

Keynumber: 1999LE50

Reference: J.Nucl.Sci.Technol.(Tokyo) 36, 719 (1999)

Authors: S.Y.Lee, J.-I.Hori, M.Igashira

Title: Measurements of Capture Gamma Rays from the Broad 27-, 49-, and 97-keV Neutron

Resonances and the Narrow 44-keV Neutron Resonance of ¹⁹F

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=10-150 keV; measured E γ ,I γ . 19 F deduced

resonances partial radiative widths. ²⁰F levels deduced branching ratios.

Kevnumber: 1997MOZZ

Reference: Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.1, p.428 (1997)

Authors: P.Mohr, H.Oberhummer, H.Beer

Title: Analysis of Direct Neutron Capture on Neutron-Rich Light Nuclei using the Fast Cyclic

Activation Technique

Keyword abstract: NUCLEAR REACTIONS 19 F, 26 Mg(n, γ),E=25=218 keV; measured σ . Neutrons

from ⁷Li(p,n) reaction.

Keynumber: 1997IGZZ

Reference: Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.1, p.430 (1997)

Authors: M.Igashira, S.Y.Lee, S.Mizuno, H.Kitazawa

Title: Measurements of Gamma Rays from keV-Neutron Resonance Capture by Odd-Z Nuclei in the 2s-

1d Shell Region

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E not given; measured resonance capture γ spectra. Neutrons from 7 Li(p,n) reaction.

Keynumber: 1996RA04

Reference: Phys.Rev. C53, 616 (1996)

Authors: S.Raman, E.K.Warburton, J.W.Starner, E.T.Jurney, J.E.Lynn, P.Tikkanen, J.Keinonen

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Title: Spectroscopy of ²⁰F Levels

Keyword abstract: NUCLEAR REACTIONS 19 F(n,γ),E=thermal; measured Eγ,Iγ. 20 F deduced levels,J, π ,γ-branching ratios,spectroscopic strengths,γ multipolarity. Other reaction data input.

Keynumber: 1991HI23

Reference: J.Radioanal.Nucl.Chem. 153, 169 (1991)

Authors: P.Z.Hien, T.K.Mai, T.X.Quang, N.V.Loc, T.N.Thuy

Title: Determination of k_0 -Factors of Short-Lived Nuclides ($T \ge 1$ Min) by Thermal Neutron Activation

Technique

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ³⁷Cl, ⁴⁵Sc, ⁷⁶Se, ¹⁰³Rh, ¹⁰⁶Pd, ¹⁰⁹Ag, ¹³⁸Ce, ¹⁶⁴Dy, ¹⁶⁶Er, ¹⁷⁸Hf(n,γ),E=thermal; measured γ-spectra. ²⁰F, ^{38m}Cl, ^{46m}Sc, ^{77m}Se, ¹⁰⁴Rh, ¹⁰⁷Pd, ¹¹⁰Ag, ^{139m}Ce, ^{165m}Dy, ^{167m}Er, ^{179m}Hf deduced k_0 -Au factors.

Keynumber: 1987KE09

Reference: Can.J.Phys. 65, 1111 (1987)

Authors: T.J.Kennett, W.V.Prestwich, J.S.Tsai

Title: A Re-Examination of the ${}^{19}F(n,\gamma){}^{20}F$ Reaction

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E $\approx 4000-7000$ keV; measured E γ ,I γ . 20 F

deduced levels, J, π , γ -branching ratio.

Keynumber: <u>1986KR16</u>

Reference: Phys.Rev. C34, 2103 (1986)

Authors: B.Krusche, K.P.Lieb

Title: Dipole Transition Strengths and Level Densities $A \le 80$ Odd-Odd Nuclei Obtained from Thermal

Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²³Na, ²⁷Al, ³¹P, ³⁵Cl, ³⁹, ⁴¹K, ⁴⁵Sc, ⁵⁵Mn, ⁵⁹Co, ⁶³, ⁶⁵Cu, ⁷¹Ga, ⁷⁵As, ⁷⁹Br(n,γ),E=thermal; analyzed data. ²⁰F, ²⁴Na, ²⁸Al, ³²P, ³⁶Cl, ⁴⁰, ⁴²K, ⁴⁶Sc, ⁵⁶Mn, ⁶⁰Co, ⁶⁴, ⁶⁶Cu, ⁷²Ga, ⁷⁶As, ⁸⁰Br deduced primary E1,M1 transition strengths,level density parameters. Bethe, constant temperature Fermi gas models.

Keynumber: 1986KE15

Reference: Nucl.Instrum.Methods Phys.Res. A247, 420 (1986)

Authors: T.J.Kennett, W.V.Prestwich, J.S.Tsai

Title: Energy Determination of the 6129 keV ¹⁶O Transition

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=thermal; measured Q. 19 F(n, α),E=thermal;

measured Eγ, Iγ. ¹⁶O deduced transition energy. Pair spectrometer.

Keynumber: 1985VOZV

Reference: Proc.AIP Conf.Capture Gamma-Ray Spectroscopy and Related Topics, Knoxville, Tenn., (1984), S.Raman, Ed., AIP, New York, p.305 (1985)

Authors: T.von Egidy, P.Hungerford, H.H.Schmidt, H.J.Scheerer, A.N.Behkami, G.Hlawatsch, B.Krusche, K.P.Lieb, H.G.Borner, S.A.Kerr, K.Schreckenbach

Title: Structural and Statistical Aspects of Extensive Level Schemes from (n,γ) and Transfer Reactions **Keyword abstract:** NUCLEAR REACTIONS ¹⁹F, ²³Na, ²⁷Al, ³⁵Cl, ³⁹, ⁴⁰, ⁴¹K, ¹¹³Cd, ¹³³Cs, ¹⁵⁴Sm, ¹⁵³Eu, ¹⁵⁴Gd, ¹⁶⁰, ¹⁶²Dy(n,γ), (n,e),E not given; measured not given. ²⁰F, ²⁴Na, ²⁸Al, ³⁶Cl, ⁴⁰, ⁴¹, ⁴²K, ¹¹⁴Cd, ¹³⁴Cs, ¹⁵⁵Sm, ¹⁵⁴Eu, ¹⁵⁵Gd, ¹⁶¹, ¹⁶³Dy deduced levels,γ-transition multipolarity,strength distribution.

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Keynumber: 1983HU12

Reference: Z.Phys. A313, 339 (1983)

Authors: P.Hungerford, T.von Egidy, H.H.Schmidt, S.A.Kerr, H.G.Borner, E.Monnand

Title: The 19 Fe(n, γ) 20 F Reaction

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=thermal; measured E γ ,I γ . 20 F deduced

levels, J, π , γ -branching ratios. Crystal spectrometer, Ge(Li) detector.

Keynumber: 1980AL19

Reference: J.Phys.(London) G6, 1173 (1980) **Authors:** B.J.Allen, D.D.Cohen, F.Z.Company

Title: Radiative Widths of Neutron Scattering Resonances

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²⁴Mg, ²⁷Al, ²⁸Si, ⁵⁶Fe, ²⁰⁷Pb(n,γ),E=20-80 keV; measured $\sigma(E\gamma,E)$. ²⁰F, ²⁵Mg, ²⁸Al, ²⁹Si, ⁵⁷Fe, ²⁰⁸Pb deduced resonances,Γn,L,J, π ,Γγ. Moxon-Rae

detectors. Monte-Carlo analysis.

Keynumber: 1979HOZY

Coden: REPT NEANDC(OR)-152L,P31,Holmqvist

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ⁵⁶Fe, ⁵⁹Co(n, γ),E=16.2-21.8 MeV; measurd production σ for prompt γ , deduced evidence for (n,n'), (n,2n), (n,np), (n,d); discussed reaction

mechanism.

Keynumber: 1977CL03

Reference: Phys.Lett. 71B, 10 (1977)

Authors: C.F.Clement, A.M.Lane, J.Kopecky

Title: Correlations in M1 Neutron Capture as Evidence for a Semi-Direct Mechanism

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²³Na, ²⁵Mg, ²⁷Al, ²⁹Si, ³¹P, ³⁵, ³⁷Cl, ³⁹K, ⁴³Ca

 (n,γ) , (d,p); analyzed correlations between reaction types.

Keynumber: 1976PR08

Reference: Yad.Fiz. 23, 935 (1976); Sov.J.Nucl.Phys. 23, 492 (1977)

Authors: G.A.Prokopets, B.Holmqvist, A.V.Murzin

Title: γ Rays from the Reactions in 19 F for Neutrons of Energy 16-22 MeV

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=7-22 MeV; measured σ (E,E γ). 19 F(n,2n),

(n,d), (n,n') deduced σ , reaction mechanism.

Keynumber: 1974SI27

Reference: Phys.Rev. C10, 2147 (1974)

Authors: U.N.Singh, H.I.Liou, J.Rainwater, G.Hacken, J.B.Garg

Title: Neutron Resonance Spectroscopy: Fluorine

Keyword abstract: NUCLEAR REACTIONS 19 F(n,n), (n, γ),E=0.5-200 keV; measured total σ (E). 20 F

resonances deduced L,J,level-width,S.

Keynumber: 1974KE18

Reference: Aust.J.Phys. 27, 759 (1974)

Authors: M.J.Kenny, P.W.Martin, L.E.Carlson, J.A.Biggerstaff

Title: Gamma Ray Transitions Following keV Neutron Capture in 2s-1d Shell Nuclei

Keyword abstract: NUCLEAR REACTIONS ¹⁹F(n,γ),E=27,44,49 keV; ²⁷Al(n,γ),E=35 keV; ²⁸Si

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 (n,γ) , E=38,66.7 keV; 29 Si (n,γ) , E=15,26 keV; 32 S (n,γ) , E=30,43 keV; 40 Ar (n,γ) , E=15-70 keV; measured E γ , $I\gamma$, 20 F, 29 , 30 Si, 28 Al, 33 S resonances deduced transitions, γ -width, E1, M1-strength.

Keynumber: 1974ISZX

Coden: THESIS DABBB 34B 5613

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²³Na, ²⁷Al, ³¹P, ³⁵Cl, ³⁹K(n,γ),E=thermal; measured Eγ,Iγ. ²⁰F, ²⁴Na, ²⁸Al, ³²P, ³⁶Cl, ⁴⁰K deduced levels,Q,γ-multiplicity,level-width.

Keynumber: 1973SEZC **Coden:** JOUR HPACA 46 52

Keyword abstract: NUCLEAR REACTIONS ¹³C, ¹⁹F(n,γ); measured DSA. ¹⁴C, ²⁰F levels deduced

 $T_{1/2}$.

Keynumber: 1973MAYL **Coden:** REPT ORNL-4844,P44

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=2.5-5000 keV; measured σ (n γ). 20 F deduced

levels, level-width, level-width(γ).

Keynumber: 1973MA14

Reference: Phys.Rev. C7, 1766 (1973) **Authors:** R.L.Macklin, R.R.Winters

Title: Neutron Capture in Fluorine below 1500 keV

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=23-700 keV; measured σ (E γ). 20 F deduced

resonances, level-width.

Keynumber: 1972OP01

Reference: Nucl.Phys. A180, 569 (1972) **Authors:** A.M.F.Op den Kamp, A.M.J.Spits

Title: Gamma Rays from Thermal-Neutron Capture in Natural and ³⁹K Enriched Potassium

Keyword abstract: NUCLEAR REACTIONS ³⁹, ⁴¹K, ¹H, ⁶Li, ¹²C, ¹⁹F, ⁴⁰Ar, ⁵⁶Fe, ²⁰⁷Pb(n,γ),E= thermal; ¹⁹F, ²⁸Si(n,n'γ),E=fast; measured Eγ,Iγ, ³⁹K(n,γ),E=thermal; measured Eγ,Iγ,γγ-coin; deduced Q. ⁴⁰, ⁴²K deduced levels,γ-branching. Ge(Li),NaI detectors.

Keynumber: 1971SIZK

Coden: REPT BNL-50298,P47,10/21/71

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²⁷Al(n, γ),E <300 keV; measured σ . ²⁰F, ²⁸Al

deduced resonances, J, πl , level-width.

Keynumber: 1970SP02

Reference: Nucl.Phys. A145, 449 (1970)

Authors: A.M.J.Spits, A.M.F. Op den Kamp, H.Gruppelaar

Title: Gamma Rays from Thermal-Neutron Capture in Natural and ²⁸Si Enriched Silicon

Keyword abstract: NUCLEAR REACTIONS ²⁸, ²⁹, ³⁰Si, ⁶Li, ¹⁴N, ¹⁹F, ²⁷Al, ⁵⁴, ⁵⁶Fe, ²⁰⁷Pb(n,γ), E=thermal; ²⁸Si(n,n'γ), E=fast; measured Eγ, Iγ; deduced Q. ²⁹, ³⁰, ³¹Si deduced levels, γ-branching.

Natural, ²⁸Si enriched targets, Ge(Li) detector.

Keynumber: 1969HA04

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Reference: Nucl.Phys. A123, 215(1969) **Authors:** R.Hardell, A.Hasselgren **Title:** Thermal Neutron Capture in ¹⁹F

Keyword abstract: NUCLEAR REACTIONS 19 F(n, γ),E=thermal; measured E γ ,I γ ; deduced Q. 20 F

deduced levels, γ-branching. Natural target, Ge(Li) detector.

Keynumber: 1968SP01

Reference: Nucl. Phys. A113, 395(1968)

Authors: P.Spilling, H.Gruppelaar, H.F.De vries, A.M.J.Spits

Title: The Reactions $^{12}C(n,\gamma)^{13}C$ and $^{19}F(n,\gamma)^{20}F$

Keyword abstract: NUCLEAR REACTIONS 6 Li, 12 C, 19 F, 56 Fe(n, γ), E=thermal; 19 F(n,n' γ), E= fast; 19 F(n, α), E= fast; measured E γ ,I γ ; deduced Q. 7 Li, 13 C, 16 O, 19 F, 20 F deduced levels, branchings.

Natural targets.

Keynumber: 1967RA24

Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba

Press, p.278(1967)

Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai

Title: Determination of (n,γ) Reaction Q Values from Capture γ -Ray Spectra

Keyword abstract: NUCLEAR REACTIONS 6 Li, 7 Li, 9 Be, 10 B, 12 C, 14 N, 19 F, 23 Na, 24 Mg, 25 Mg, 26 Mg, 26 Mg, 27 Al, 28 Si, 31 P, 32 S, 35 Cl, 40 Ca, 45 Sc, 48 Ti, 51 V, 55 Mn, 54 Fe, 56 Fe, 59 Co, 58 Ni, 60 Ni, 63 Cu, 65 Cu, 66 Zn, 67 Zn, 73 Ge, 76 Se, 85 Rb, 87 Rb, 89 Y, 93 Nb, 103 Rh, 113 Cd, 123 Te, 133 Cs, 139 La, 141 Pr, 149 Sm, 153 Eu, 157 Gd, 159 Tb, 165 Ho, 167 Er, 169 Tm, 181 Ta, 182 W, 195 Pt, 197 Au, 199 Hg, 203 Tl, 207 Pb(n,γ), E = thermal; measured Eγ; deduced Q. Natural targets.

Keynumber: 1967BE36

Reference: Phys.Rev. 158, 1049(1967)

Authors: I.Bergqvist, J.A.Biggerstaff, J.H.Gibbons, W.M.Good

Title: Gamma Rays from keV Resonance Neutron Capture in Some (2s-1d)-Shell Nuclei

Keyword abstract: NUCLEAR REACTIONS ¹⁹F, ²³Na, ²⁴Mg, ²⁷Al, ³²S, ³⁵Cl(n,γ),E=20-120 keV;

measured Eγ.Iγ. ²⁰F. ²⁴Na. ²⁵Mg. ²⁸Al. ³³S. ³⁶Cl deduced resonances, level-width, J.π.

Keynumber: 1967BA71

Reference: RPI-328-97, p.24 (1967)

Authors: Z.M.Bartolome, J.R.Tatarczuk, W.R.Moyer, R.C.Block

Title: Neutron Radiative Capture Measurements on Lead, Fluorine, Magnesium, and Sulfur **Keyword abstract:** NUCLEAR REACTIONS ¹⁹F,Mg, S,Pb, ²⁰⁴, ²⁰⁶, ²⁰⁷Pb(n,γ), E=1-100 keV;

measured $\sigma(E)$. ^{20}F , Mg,S, 205 , 207 , ^{208}Pb deduced resonances, level-width.
