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65 reference(s) found :

Keynumber: 2001SU02
Reference: Nucl.Instrum.Methods Phys.Res. A457, 180 (2001)
Authors: K.Sudarshan, A.G.C.Nair, R.N.Acharya, Y.M.Scindia, A.V.R.Reddy, S.B.Manohar, A.Goswami
Title: Capture γ-Rays from ^{60}Co as Multi γ-Ray Efficiency Standard for Prompt γ-Ray Neutron Activation Analysis
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=thermal; measured prompt Eγ,Iγ; deduced absolute γ-ray emission probabilities. Proposed efficiency standard.

Keynumber: 2001DE25
Reference: J.Radioanal.Nucl.Chem. 248, 103 (2001)
Authors: F.De Corte, S.Van Lierde
Title: Evaluation of (n,γ) Cross Sections from k_0-Factors for Radionuclides with a Short Half-Life and/or a Complex Activation-Decay Scheme
Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{40}Ar, ^{59}Co, ^{70}Zn, ^{76}Se, ^{79}Br, ^{103}Rh, ^{108}Pd, ^{109}Ag, ^{121}, ^{123}Sb, ^{133}Cs, ^{178}Hf, ^{198}Pt, ^{204}Hg(n,γ),E=thermal; measured activation σ. Comparisons with previous results.

Keynumber: 1998GR02
Reference: Yad.Fiz. 61, No 1, 29 (1998); Phys.Atomic Nuclei 61, 24 (1998)
Authors: O.T.Grudzevich
Title: Isomeric Ratios for Radiative Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{80}Se, ^{89}Y, ^{79}Br, ^{85}Rb, ^{103}Rh, ^{151}Eu, ^{115}In, ^{187}Re (n,γ),E=0-14 MeV; analyzed isomer production ratios. Cascade-evaporation model analysis.

Keynumber: 1997ROZZ
Reference: INDC(CPR)-042/L, p.93 (1997)
Authors: J.Rong, G.Lui
Title: The Integral Test of the Reactor Dosimetry Data
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{46}, ^{47}, ^{48}Ti, ^{54}, ^{56}Fe, ^{58}, ^{60}Ni, ^{32}S(n,p), ^{27}Al, ^{59}Co, ^{63}Cu(n,α), ^{55}Mn, ^{59}Co, ^{58}Ni, ^{65}Cu(n,2n), ^{23}Na, ^{45}Sc, ^{59}Co, ^{58}Fe, ^{63}Cu, ^{115}In, ^{197}Au, ^{232}Th, ^{238}U(n,γ), ^{235}, ^{238}U, ^{232}Th, ^{237}Np, ^{239}Pu(n,F), ^{47}, ^{48}Ti(n,np), ^{6}Li, ^{10}B, ^{115}In(n,X),E=reactor; calculated spectrum averaged σ. Several data libraries compared.

Keynumber: 1997KA47
Reference: J.Radioanal.Nucl.Chem. 215, 193 (1997)
Authors: S.I.Kafala, T.D.MacMahon, S.B.Borzakov
Title: Neutron Activation for Precise Nuclear Data
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{50}Cr, ^{59}Co, ^{64}Zn, ^{75}As, ^{85}Rb, ^{113}In, ^{121}, ^{123}Sb, ^{130}Ba, ^{133}Cs, ^{139}La, ^{140}, ^{142}Ce, ^{146}Nd, ^{151}, ^{153}Eu, ^{152}Gd, ^{152}Sm, ^{159}Tb, ^{165}Ho, ^{174}Yb, ^{180}Hf, ^{181}Ta, ^{186}W, ^{232}Pa, ^{238}Np(n,γ),E=reactor; measured Eγ,Iγ; deduced capture σ,resonance integral,least-squares fit parameters. Multi-element standard.

Keynumber: 1994YA25

Reference: Nucl.Sci.Eng. 118, 249 (1994)
Authors: N.Yamamuro
Title: Activation Cross-Section Calculations on the Production of Long-Lived Radionuclides
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{58}, ^{62}Ni, ^{93}Nb, ^{92}, ^{98}Mo, ^{107}Ag, ^{151}Eu, ^{185}Re (n,γ), ^{60}Ni, ^{63}Cu, ^{94}Mo, ^{158}Dy(n,p), ^{61}Ni, ^{92}Mo(n,np), ^{63}Cu, ^{66}Zn(n,α), ^{60}, ^{64}Ni, ^{95}, ^{93}Nb, ^{94}, ^{100}Mo, ^{109}Ag, ^{151}, ^{153}Eu, ^{159}Tb, ^{187}Re(n,2n), ^{95}Mo(n,3n),E ≤ 20 MeV; calculated activation σ(E).

Keynumber: 1993HA40
Reference: Nucl.Instrum.Methods Phys.Res. B83, 557 (1993)
Authors: O.K.Harling, J.-M.Chabeuf, F.Lambert, G.Yasuda
Title: A Prompt Gamma Neutron Activation Analysis Facility using a Diffracted Beam
Keyword abstract: NUCLEAR REACTIONS ^{1}H,B,Gd,Cd, ^{59}Co,Sm,Cl,In(n,γ),E=0.0143 eV; measured Eγ; deduced diffracted beam facility detection sensitivities. Multi-layered graphite monochromator beam diffractor,prompt γ neutron activation analysis facility.

Keynumber: **1992HE19**
Reference: Phys.Rev. C46, 2493 (1992)
Authors: M.Herman, A.Horing, G.Reffo
Title: Gamma Emission in Precompound Reactions. II. Numerical Application
Keyword abstract: NUCLEAR REACTIONS ^{93}Nb, ^{59}Co, ^{181}Ta(n,γ),E=14.1 MeV; analyzed total γ-spectra. Precompound reactions,parameter free interpretation.

Keynumber: **1990OB01**
Reference: Phys.Rev. C42, 1652 (1990)
Authors: P.Oblozinsky, M.B.Chadwick
Title: Gamma-Ray Emission from Multistep Compound Reactions
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{93}Nb, ^{181}Ta(n,γ),E=14 MeV; calculated γ-production σ vs Eγ; deduced reaction mechanism. Multi-step compound theory.
Keyword abstract: NUCLEAR STRUCTURE ^{94}Nb, ^{60}Co, ^{182}Ta; calculated r-stage,γ-escape widths. Multi-step compound theory.

Keynumber: 1989PE04
Reference: Nucl.Instrum.Methods Phys.Res. B40/41, 1205 (1989)
Authors: R.Pepelnik
Title: Sensitivities of High-Flux 14 MeV Neutron Activation Analysis
Keyword abstract: NUCLEAR REACTIONS ^{11}B, ^{16}O, ^{19}F, ^{20}Ne, ^{23}Na, ^{24}Mg, ^{27}Al, ^{28}Si, ^{34}S, ^{44}Ca, ^{51}V, ^{60}Ni, ^{75}As, ^{109}Ag(n,p), ^{31}P, ^{40}Ar, ^{55}Mn, ^{65}Cu, ^{93}Nb(n,α), ^{35}Cl, ^{45}Sc, ^{64}Zn, ^{71}Ga, ^{76}Ge, ^{80}Se, ^{79}Br, ^{86}Kr, ^{85}Rb, ^{90}Zr, ^{100}Mo, ^{96}Ru, ^{110}Pd, ^{124}Sn, ^{123}Sb, ^{130}Te, ^{136}Xe, ^{133}Cs, ^{138}Ba, ^{140}Ce, ^{141}Pr, ^{142}Nd, ^{144}Sm, ^{160}Gd, ^{159}Tb, ^{165}Ho, ^{164}Er, ^{169}Tm, ^{168}Yb, ^{181}Ta, ^{186}W, ^{198}Pt, ^{191}Ir, ^{197}Au, ^{203}Tl, ^{208}Pb(n,2n),Ti,Cr,Fe,Sr,Cd,Eu,Hf, ^{200}Hg(n,X), ^{59}Co, ^{103}Rh, ^{115}In, ^{127}I, ^{164}Dy, ^{175}Lu, ^{187}Re, ^{226}Ra (n,γ), ^{232}Th, ^{238}U(n,F),E=14 MeV; calculated analytical sensitivities. Activation analysis.

Keynumber: 1987AI03
Reference: J.Phys.(London) G13, 945 (1987)
Authors: S.Ait-Tahar, P.E.Hodgson
Title: Weisskopf-Ewing Calculations: Neutron-induced reactions
Keyword abstract: NUCLEAR REACTIONS ^{55}Mn(n,n), ^{55}Mn, ^{59}Co, ^{63}, ^{65}Cu(n,p), (n,np), (n,2n),

(n,γ), (n,α), (n,nα), (n,t), (n,nd), (n,2p), (n,pα), ^{59}Co, ^{63}, ^{65}Cu(n,n'),E=1-20 MeV; calculated σ(E). Weisskopf-Ewing model.

Keynumber: 1986TA19
Reference: Nucl.Instrum.Methods Phys.Res. A251, 574 (1986)
Authors: M.Takiue, H.Fujii, H.Ishikawa
Title: Liquid Scintillation Technique for the Determination of the Thermal Neutron Flux Density Due to ^{59}Co and ^{197}Au Monitors

Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{197}Au(n,γ),E=thermal; measured Eγ,Iγ; deduced neutron flux densities. Liquid scintillation counter,activation technique.

Keynumber: **1986KR16**
Reference: Phys.Rev. C34, 2103 (1986)
Authors: B.Krusche, K.P.Lieb
Title: Dipole Transition Strengths and Level Densities A ≤ 80 Odd-Odd Nuclei Obtained from Thermal Neutron Capture

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

Keynumber: 1986HI05
Reference: J.Radioanal.Nucl.Chem. 105, 351 (1986)
Authors: P.Z.Hien, T.K.Mai, T.X.Quang, T.N.Thuy
Title: Determination of k_0-Factors by Thermal Neutron Activation Technique

Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{26}Mg, ^{51}V, ^{55}Mn, ^{56}Fe, ^{64}Ni, ^{59}Co, ^{63}Cu, ^{109}Ag, ^{196}, ^{202}Hg(n,γ),E=thermal; measured composite nuclear constant. Activation technique.

Keynumber: 1984KO29
Reference: Nucl.Phys. A427, 413 (1984)
Authors: J.Kopecky, M.G.Delfini, R.E.Chrien
Title: Investigation of the ^{59}Co(n,γ)^{60}Co Reaction with Unpolarized and Polarized Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), (polarized n,γ),E=thermal,24 keV; measured Eγ,Iγ,γ CP; deduced Q-value. ^{60}Co deduced levels J,π,γ-branching. Natural unoriented targets.

Keynumber: 1983SA30
Reference: Aust.J.Phys. 36, 583 (1983)
Authors: D.G.Sargood
Title: Effect of Excited States on Thermonuclear Reaction Rates

Keyword abstract: NUCLEAR REACTIONS,ICPND ^{20}, ^{21}, ^{22}Ne, ^{23}Na, ^{24}, ^{25}, ^{26}Mg, ^{27}Al, ^{28}, ^{29}, ^{30}Si, ^{31}P, ^{32}, ^{33}, ^{34}, ^{36}S, ^{35}, ^{37}Cl, ^{36}, ^{38}, ^{40}Ar, ^{39}, ^{40}, ^{41}K, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}Sc, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}Ti, ^{50}, ^{51}V, ^{50}, ^{52}, ^{53}, ^{54}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co, ^{58}, ^{60}, ^{61}, ^{62}, ^{64}Ni, ^{63}, ^{65}Cu, ^{64}, ^{66}, ^{67}Zn(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), ^{70}Zn(p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E=low; compiled target thermal distribution energy state to ground state thermonuclear reaction rate of reaction σ vs temperature. Statistical model.

Keynumber: 1983AH01

Reference: Ann.Nucl.Energy 10, 41 (1983)
Authors: A.Ahmad
Title: Analysis and Evaluation of Thermal and Resonance Neutron Activation Data
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{50}Ti, ^{50}Cr, ^{51}V, ^{55}Mn, ^{58}Fe, ^{59}Co, ^{74}Se, ^{85}Rb, ^{94}, ^{96}Zr, ^{123}Sb, ^{130}Ba, ^{133}Cs, ^{139}La, ^{140}Ce, ^{159}Tb, ^{180}Hf, ^{181}Ta, ^{197}Au(n,γ),E=thermal,epithermal; analyzed data. Generalized least-squares fit.

Keynumber: 1981AR22
Reference: Yad.Fiz. 34, 1028 (1981)
Authors: L.Ya.Arifov, B.S.Mazitov, V.G.Ulanov
Title: Relative Probability of Isomer Population in Radiative Capture
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{59}Co, ^{68}, ^{70}Zn, ^{74}, ^{76}Ge, ^{80}, ^{82}Se, ^{84}Kr, ^{85}Rb, ^{84}Sr, ^{89}Y, ^{103}Rh, ^{108}, ^{110}Pd, ^{109}Ag, ^{114}Cd, ^{113}, ^{115}In, ^{112}, ^{120}, ^{122}, ^{124}Sn, ^{121}Sb, ^{120}, ^{126}, ^{128}, ^{130}Te, ^{133}Cs, ^{132}Ba, ^{136}, ^{138}Ce, ^{151}Eu, ^{164}Dy, ^{181}Ta, ^{184}W, ^{187}Re, ^{190}Os, ^{191}Ir, ^{196}Pt, ^{196}Hg (n,γ),E=thermal,0.2-2.8 MeV; ^{92}Mo(p,γ),E=1.8-7.4 MeV; analyzed σ(capture) isomer ratio vs E. Statistical theory.

Keynumber: 1980PIZN
Coden: CONF Kiev(Neutron Physics) Proc,Part3,P270,Pisanko
Keyword abstract: NUCLEAR REACTIONS ^{22}, ^{23}Na,Mg, ^{24}, ^{25}, ^{26}Mg, ^{27}Al,Si, ^{28}, ^{29}, ^{30}Si, ^{31}P,S, ^{32}, ^{33}, ^{34}S,Cl, ^{35}, ^{36}, ^{37}Cl,Ar, ^{36}, ^{38}, ^{40}Ar,K, ^{39}, ^{40}, ^{41}K,Ca, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}, ^{46}Sc,Ti, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}Ti,V, ^{50}, ^{51}V,Cr, ^{50}, ^{52}, ^{53}, ^{54}Cr,Fe, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co,Ni, ^{58}, ^{59}, ^{60}, ^{61}, ^{62}, ^{64}Ni,Cu, ^{63}, ^{65}Cu,Zn, ^{64}, ^{66}, ^{67}, ^{68}, ^{70}Zn,Ga, ^{69}, ^{71}Ga(n,γ), (n,n), (n,α),E=thermal; evaluated σ,radiative capture resonance integrals.

Keynumber: 1980GA14
Reference: Rev.Roum.Phys. 25, 107 (1980)
Authors: I.Garlea, C.Miron, E.Popa
Title: Integral Cross Sections Measured in Σ the Σ Spectrum
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{58}Fe, ^{55}Mn, ^{109}Ag(n,γ), ^{54}, ^{56}Fe, ^{59}Co, ^{46}, ^{48}Ti (n,p), ^{59}Co(n,2n), ^{58}, ^{59}Co(n,α),E=thermal; measured integral σ.

Keynumber: 1979HOZY
Reference: NEANDC(OR)152L, p.31 (1979)
Authors: B.Holmqvist, V.Corcalciuc, A.Marcinkowski, G.A.Prokopets
Title: A Study of the Neutron Induced Reactions for ^{19}F, ^{56}Fe and ^{59}Co in the Energy Interval 16 to 22 MeV
Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{56}Fe, ^{59}Co(n,γ),E=16.2-21.8 MeV; measurd production σ for prompt γ; deduced possible (n,2n), (n,np), (n,d) reactions; discussed reaction mechanism.

Keynumber: 1979GAZS
Reference: INDC(RUM)-11/LN, p.28 (1979)
Authors: I.Garlea, C.Miron, E.Popa, M.Lupu
Title: Integral Cross Sections in the ΣΣ Spectrum for Some Reactions used in Reactor Dosimetry
Keyword abstract: NUCLEAR REACTIONS ^{54}, ^{56}Fe, ^{65}Cu, ^{59}Co, ^{46}, ^{47}, ^{48}Ti, ^{46}Sc(n,p), ^{55}Mn, ^{63}Cu, ^{59}Co, ^{109}Ag(n,γ), ^{59}Co(n,2n),E=thermal,fast; measured σ.

Keynumber: 1979BUZS
Reference: INDC(YUG)-6/L (1979)
Authors: M.Budnar, F.Cvelbar, E.Hodgson, A.Hudoklin, V.Ivkovic, A.Likar, M.V.Mihailovic, R.Martincic, M.Najzer, A.Perdan, M.Potokar, V.Ramsak
Title: Prompt γ-Ray Spectra and Integrated Cross Sections for the Radiative Capture of 14 MeV Neutrons for 28 Natural Targets in the Mass Region from 12 to 208
Keyword abstract: NUCLEAR REACTIONS Mg, ^{27}Al,Si, ^{31}P,S,Ca, ^{45}Sc, ^{51}V,Cr, ^{55}Mn,Fe, ^{59}Co,Cu,Se,Br,Sr, ^{89}Y,In,Sb, ^{127}I,Ba, ^{141}Pr, ^{165}Ho, ^{181}Ta,W,Tl,Pb, ^{209}Bi(n,γ),E=14.6 MeV; measured σ(Eγ).

Keynumber: 1978BO08
Reference: Nucl.Instrum.Methods 148, 331 (1978)
Authors: J.J.Bosman, H.Postma
Title: Spin Assignments in Low-Energy Neutron-Capture Reactions Using Polarized Neutrons and Oriented Target Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(polarized n,γ),E=0.065 eV; measured γ-spectra from polarized target. ^{60}Co levels deduced J.

Keynumber: 1978AR22
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 42, 831 (1978); Bull.Acad.Sci.USSR, Phys.Ser. 42, No.4, 120 (1978)
Authors: L.Y.Arifov, B.S.Mazitov, V.G.Ulanov, S.A.Yusupbekova
Title: Measurement of the Relative Probabilities of Excitation of Isomer States during Radiative Capture of Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{89}Y, ^{164}Dy, ^{181}Ta, ^{187}Re, ^{191}Ir(n,γ),E=thermal; measured nothing; analyzed data; deduced relative probabilities of excitation of isomeric states.

Keynumber: 1976SP14
Reference: Nucl.Sci.Eng. 60, 390 (1976)
Authors: R.R.Spencer, H.Beer
Title: Measurement of Neutron Radiative Capture in Cobalt-59
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=6-200 keV; measured σ(E,Eγ). ^{60}Co deduced resonances,Γn,Γγ.

Keynumber: 1976SP13
Reference: Nucl.Sci.Eng. 61, 346 (1976)
Authors: R.R.Spencer, R.L.Macklin
Title: Neutron Capture Cross Section of Cobalt-59 in the Energy Range 2.5 to 1000 keV
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E ≤ 1 MeV; measured σ(E). ^{60}Co deduced resonances,Γγ.

Keynumber: 1975LOZX
Coden: THESIS DABBB 35B 4103
Keyword abstract: NUCLEAR REACTIONS ^{55}Mn, ^{59}Co(n,γ); measured σ(Eγ). ^{56}Mn, ^{60}Co resonances deduced level-width.

Keynumber: 1974SPZV
Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P59

Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=6-200 keV; measured σ(E,Eγ). ^{60}Co resonances deduced γ-width.

Keynumber: 1974SPZR
Coden: REPT KFK-1951,CRL
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=6-200 keV; measured total σ,Eγ,Iγ. ^{60}Co deduced resonances,J,γ-width,n-width.

Keynumber: 1974CO23
Reference: Nucl.Instrum.Methods 116, 251 (1974)
Authors: A.H.Colenbrander, T.J.Kennett
Title: The Application of a Statistical Description for Complex Spectra to the (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{45}Sc, ^{55}Mn, ^{59}Co, ^{63}Cu, ^{75}As, ^{103}Rh, ^{109}Ag, ^{115}In, ^{133}Cs, ^{185}Re, ^{197}Au, ^{203}Tl(n,γ); measured Eγ,Iγ. ^{28}Al, ^{46}Sc, ^{56}Mn, ^{60}Co, ^{64}Cu, ^{76}As, ^{104}Rh, ^{110}Ag, ^{116}In, ^{134}Cs, ^{186}Re, ^{198}Au, ^{204}Tl deduced nuclear temperature,level densities.

Keynumber: 1973RIYT
Coden: REPT EANDC(US)-186'U' P52
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{238}U, ^{135}Ba(n,γ),E=24 keV; measured Eγ. ^{60}Co, ^{239}U, ^{136}Ba deduced transitions.

Keynumber: 1973RE06
Reference: Nucl.Phys. A206, 145 (1973)
Authors: E.R.Reddingius, J.J.Bosman, H.Postma
Title: A Study of the ^{59}Co(n,γ) Reaction with Polarized Neutrons and Polarized Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),En=0.065 eV,polarized nuclei; measured Iγ (θ); ^{60}Co levels deduced J,Ge(Li) detector.

Keynumber: 1973RAZL
Coden: REPT EANDC(E)157-U,P44
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{63}, ^{65}Cu(n,γ); measured Eγ. ^{60}Co, ^{64}, ^{65}Cu deduced levels.

Keynumber: 1973MU09
Reference: J.Phys.Soc.Jap. 35, 8 (1973)
Authors: M.S.Murty, K.Siddappa, J.Rama Rao
Title: Capture Cross Sections of Intermediate Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{68}Zn, ^{86}Sr, ^{87}Rb, ^{96}, ^{102}, ^{104}Ru, ^{98}, ^{100}Mo, ^{113}, ^{115}In, ^{122}Sn, ^{133}Cs(n,γ),E=24 keV; measured capture σ.

Keynumber: 1973LOZV
Coden: JOUR PHCAA 29 No4,46 FB4
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ); measured Eγ,Iγ. ^{60}Co deduced transitions.

Keynumber: 1973HOYA
Coden: REPT UJF-2922-F
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(polarized n,γ),E=thermal; measured Eγ,Iγ. ^{60}Co

deduced levels,J,γ-mixing.

Keynumber: 1973HO24
Reference: Nucl.Phys. A209, 245 (1973)
Authors: J.Honzatko, J.Sebek, J.Kajfosz, J.Stehno, Z.Kosina, K.Konecny
Title: A Study of the ^{59}Co(n,γ) Reaction with a Polarized Target and Polarized Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(polarized n,γ),E=thermal,polarized nuclei; measured Iγ(θ). ^{60}Co levels deduced J. Single crystal Co- Fe target.

Keynumber: 1973HE15
Reference: Z.Phys. 258, 315 (1973)
Authors: R.Henkelmann
Title: Low Energy Gamma Rays from Thermal Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{45}Sc, ^{59}Co,Cu,Se,In,La, ^{141}Pr,Nd,Sm,Eu,Gd, ^{159}Tb,Dy, ^{165}Ho,Er, ^{169}Tm,Lu,Hg(n,γ); measured Eγ,Iγ.

Keynumber: 1973GUZA
Coden: REPT ANL/NDM-1
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,n), (n,n'γ), (n,γ), (n,2n), (n,3n), (n,p), ^{59}Co(n,n'p), (n,α), (n,n'α), (n,d), (n,t), (n, ^{3}He), (n,2p); measured σ(E;E(X-ray),θ). ^{59}Co deduced levels,J,π.

Keynumber: 1973BOWN
Coden: REPT INDC(SEC)-36/L P37
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ); measured Eγ.

Keynumber: 1972ST05
Reference: Nucl.Phys. A181, 241 (1972)
Authors: F.Stecher-Rasmussen, K.Abrahams, J.Kopecky
Title: A Study of the ^{59}Co(n,γ)^{60}Co Reaction with Polarized Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(polarized n,γ);E=thermal; measured γ-CP. ^{60}Co levels deduced J,π. Natural target.

Keynumber: 1972REZZ
Coden: JOUR BAPSA 17 556,E R Reddingius,4/24/72
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=thermal; measured Iγ(θ). ^{60}Co levels deduced J.

Keynumber: 1972REZT
Coden: CONF Budapest,Contributions,P24,10/11/72
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), measured Iγ(θ),γ-CP. ^{60}Co levels deduced J.

Keynumber: 1972RE11
Reference: Phys.Lett. 41B, 301 (1972)
Authors: E.R.Reddingius, J.J.Bosman, H.Postma
Title: Interference Effects in the Emission of Gamma Rays after Capture of Polarized Neutrons by Polarized ^{59}Co Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=thermal; measured Iγ(θ). ^{60}Co levels deduced J. Polarized beam,target.

Keynumber: 1972HOYZ
Coden: CONF Budapest,Contributions,P22,10/11/72
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=thermal; measured Iγ(θ).

Keynumber: 1972BOZH
Coden: CONF Budapest,Contributions,P26,10/11/72
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), measured Iγ(θ). ^{60}Co levels deduced J.

Keynumber: 1971RI10
Reference: Nucl.Phys. A173, 551 (1971)
Authors: F.Rigaud, J.L.Irigaray, G.Y.Petit, G.Longo, F.Saporetti
Title: Gamma-Ray Spectra Following the Capture of 14 MeV Neutrons by ^{59}Co, ^{93}Nb and ^{103}Rh
Keyword abstract: NUCLEAR REACTIONS ^{59}Co, ^{93}Nb, ^{103}Rh(n,γ),En=14.06 MeV; measured σ (Eγ); deduced integrated σ. Natural targets.

Keynumber: 1971ARZJ
Coden: CONF Legnaro($1f_{7/2}$ Nuclei),P251
Keyword abstract: NUCLEAR REACTIONS ^{36}Ar, ^{40}Ar, ^{40}K, ^{40}, ^{42}, ^{44}, ^{46}, ^{48}Ca, ^{47}Ti, ^{55}Mn, ^{57}Fe, ^{59}Co(n,γ),E=thermal; surveyed Eγ,Iγ,γγ-coin,γγ(θ),γ-polarization data. ^{37}Ar, ^{41}Ar, ^{41}K, ^{41}, ^{43}, ^{45}, ^{47}, ^{49}Ca, ^{48}Ti, ^{56}Mn, ^{58}Fe, ^{60}Co deduced levels,J,π,γ-mixing.

Keynumber: 1970STZZ
Reference: Thesis, Virginia Poly. (1970); Diss.Abst.Int. 31B, 3638 (1970)
Authors: E.P.Stergakos
Title: Studies of Resonances in ^{23}Na, ^{26}Mg, ^{41}K, ^{55}Mn and ^{59}Co
Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{26}Mg, ^{41}K, ^{55}Mn, ^{59}Co(n,γ),E=thermal;measured Eγ,Iγ. ^{24}Na, ^{27}Mg, ^{42}K, ^{56}Mn, ^{60}Co deduced resonances, level-width.

Keynumber: 1970KAZP
Coden: REPT KFKI-71-14,10/14/71
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E=thermal; measured γγ(θ). ^{60}Co levels deduced J,π,γ-mixing.

Keynumber: 1970AB09
Reference: Phys.Lett. 32B, 605 (1970)
Authors: K.Abrahams, J.Kopecky, F.Stecher-Rasmussen
Title: Negative Energy Resonances and Potential Capture in the ^{59}Co(n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(polarized n,γ), E=thermal; measured γ-circular polarization. ^{60}Co deduced negative energy resonance,level-width.

Keynumber: 1969SM05
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 33, 1270 (1969); Bull.Acad.Sci.USSR, Phys.Ser. 33, 1175 (1970)
Authors: A.I.Smirnov, V.A.Shaburov, V.L.Alekseev, D.M.Kaminker, A.S.Rylnikov
Title: Crystal Diffraction Spectrometer Study of the γ Radiation from the ^{59}Co(n,γ)^{60}Co Reaction
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), E=thermal; measured Eγ, Iγ. ^{60}Co deduced

levels. Crystal-diffraction spectrometer.

Keynumber: 1969SA10
Reference: Nucl.Phys. A130, 353 (1969)
Authors: C.Samour, R.N.Alves, J.Julien, J.Morgenstern
Title: Capture Radiative Partielle des Neutrons de Resonance dans l'Or et le Cobalt
Keyword abstract: NUCLEAR REACTIONS ^{197}Au(n,γ), ^{59}Co(n,γ), E=3-300 eV, thermal; measured σ (E;Eγ), gamma(γi), direct capture cross section. ^{198}Au, ^{60}Co deduced level, J. Ge(Li) detector; natural target.

Keynumber: 1969ME05
Reference: Nucl.Phys. A130, 161 (1969)
Authors: J.Mellema, H.Postma
Title: Spin Investigation of Excited States of ^{60}Co by Means of Nuclear Orientation
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), E = thermal; measured Iγ. ^{60}Co levels deduced J. Ge(Li) detector,aligned nuclei.

Keynumber: 1969KO05
Reference: Nucl.Phys. A127, 385 (1969)
Authors: J.Kopecky, E.Warming
Title: Circular Polarization Measurements with a Ge(Li) Detector
Keyword abstract: NUCLEAR REACTIONS ^{32}S, ^{35}Cl, ^{48}Ti, ^{55}Mn, ^{56}Fe, ^{59}Co, ^{63}Cu(polarized n,γ), E = thermal; measured γ circular polarization. ^{33}S, ^{36}Cl, ^{49}Ti, ^{56}Mn, ^{57}Fe, ^{60}Co, ^{64}Cu levels deduced J, γ-mixing. Natural targets.

Keynumber: 1969KE15
Reference: Yadern.Fiz. 10, 907 (1969); Soviet J.Nucl.Phys. 10, 524 (1970)
Authors: J.Kecskemeti, D.Kiss
Title: Measurement of Average Multiplicity in (n,γ) Reactions Induced by Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{27}Al, ^{31}P, ^{32}S, ^{35}Cl, ^{48}Ti, ^{51}V, ^{53}Cr, ^{52}Cr, ^{55}Mn, ^{56}Fe, ^{59}Co, ^{60}Ni,Ni,Cu, ^{63}Cu, Ge, ^{73}Ge, ^{75}As,Se,Br, Sr, Zr, ^{93}Nb,Mo, ^{103}Rh,Ag(n,γ) E=thermal; measured average γ multiplicity.

Keynumber: 1969EI01
Reference: Z.Physik 219, 114 (1969)
Authors: J.Eichler
Title: Messung der Zirkularen Polarisation von γ-Strahlung nach Einfang Polarisierter Thermischer Neutronen in Kernen
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{59}Co,Mo,Sm(n,γ), E=thermal; measured circular polarization; ^{28}Al levels deduced γ-mixing. ^{60}Co, ^{96}Mo, ^{150}Sm levels, deduced J, π.

Keynumber: 1969AB03
Reference: Nucl.Phys. A124, 34 (1969)
Authors: K.Abrahams, W.Ratynski
Title: Circular Polarization of γ-Radiation After Capture of Polarized Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{39}K, ^{40}Ca, ^{48}Ti, ^{59}Co, ^{113}Cd, ^{207}Pb(n,γ), E=thermal; measured Pγ, Eγ. ^{40}K, ^{41}Ca, ^{49}Ti, ^{60}Co, ^{114}Cd, ^{208}Pb, deduced levels, J, delta. Natural targets, Ge(Li) detector.

Keynumber: 1968WA20
Reference: Phys.Rev. 176, 1314 (1968)
Authors: O.A.Wasson, R.E.Chrien, M.R.Bhat, M.A.Lone, M.Beer
Title: Direct Neutron Capture in $Co^{59}(n,\gamma)Co^{60}$
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ),E <1.5 keV; measured σ(E;Eγ). ^{60}Co deduced resonances,levels.

Keynumber: 1968ME20
Reference: Can.J.Phys. 46, 2325 (1968)
Authors: J.S.Merritt, R.E.Green
Title: The Thermal Neutron Activation Cross Section of ^{59}Co
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), E=thermal; measured σ.

Keynumber: 1968BRZZ
Reference: Program and Theses, Proc.18th Ann.Conf.Nucl.Spectroscopy and Struct.Of At.Nuclei, Riga, p.37 (1968)
Authors: D.L.Broder, B.V.Nesterov, M.V.Panarin, L.P.Khamyanov
Title: Investigation of Capture γ-Rays in ^{59}Co, ^{48}Ti, ^{89}Y and ^{149}Sm with a Ge-Li Spectrometer
Keyword abstract: NUCLEAR REACTIONS ^{48}Ti, ^{59}Co, ^{89}Y, ^{149}Sm(n,γ), E=thermal; measured Eγ, Iγ. ^{49}Ti, ^{60}Co, ^{90}Y, ^{150}Sm deduced transitions. Ge(Li) detectors.

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, ^{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: 1966PR07
Reference: Nucl.Phys. 88, 548(1966)
Authors: W.V.Prestwich, T.J.Kennett, L.B.Hughes
Title: A Study of the ^{59}Co(n,γ)^{60}Co Reaction
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), E = thermal; measured Eγ, Iγ; deduced Q. ^{60}Co deduced levels.

Keynumber: 1964GE03
Reference: Nucl.Phys. 54, 405(1964)
Authors: H.U.Gersch, W.Rudolph, K.F.Alexander
Title: Vergleich der (n,γ)- und (d,p)-Reaktionen am Kobalt
Keyword abstract: NUCLEAR REACTIONS ^{59}Co(n,γ), En=pile; measured γ-spectrum. ^{60}Co deduced levels.
