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19 reference(s) found :

Keynumber: 2000RA14
Reference: Phys.Rev. C61, 067303 (2000)
Authors: S.Raman, E.T.Jurney, J.W.Starner, J.E.Lynn
Title: Direct Thermal -Neutron Capture by ^{30}Si
Keyword abstract: NUCLEAR REACTIONS ^{30}Si(n,γ),E=thermal; calculated σ(E). Direct capture theory,input data from (d,p) reaction,comparison with data.

Keynumber: 1995BOZW
Reference: Program and Thesis, Proc.45th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, St.Petersburg, p.240 (1995)
Authors: M.D.Bondarkov, I.N.Vishnevsky, L.P.Kotsubo, T.N.Lashko, Yu.I.Totsky, M.A.Ukhin
Title: Cross Sections of (n,γ) and (n,α) Reactions for ^{30}Si
Keyword abstract: NUCLEAR REACTIONS,ICPND ^{30}Si(n,γ), (n,α),E=14 MeV; measured σ. Activation technique.

Keynumber: 1992RA19
Reference: Phys.Rev. C46, 972 (1992)
Authors: S.Raman, E.T.Jurney, J.W.Starner, J.E.Lynn
Title: Thermal -Neutron Capture by Silicon Isotopes
Keyword abstract: NUCLEAR REACTIONS $^{28, 29, 30}$Si(n,γ),E=thermal; measured Eγ,Iγ following capture; deduced σ. $^{29, 30, 31}$Si deduced neutron separation energies,transition γ-multipolarity. Direct capture interpretation.

Keynumber: 1990IS02
Reference: Phys.Rev. C41, 1272 (1990)
Authors: M.A.Islam, T.J.Kennett, W.V.Prestwich
Title: Thermal Neutron Capture in Silcon
Keyword abstract: NUCLEAR REACTIONS $^{28, 29, 30}$Si(n,γ),E=thermal; measured Eγ,Iγ,σ. $^{29, 30, 31}$Si deduced levels,neutron separation energy. Pair spectrometer,hyperpure Ge detector.

Keynumber: 1989ISZX
Reference: Phys.Can. 45, No.3, 47, FC4 (1989)
Authors: M.A.Islam, T.J.Kennett, W.V.Prestwich
Title: A Study of Gamma Rays from Thermal Neutron Capture in Silicon Isotopes
Keyword abstract: NUCLEAR REACTIONS $^{28, 29, 30}$Si(n,γ),E=thermal; measured γ-spectra following capture. $^{29, 30, 31}$Si deduced transitions,neutron separation energies.

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: 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: 1975BO36

Reference: Nucl.Phys. A252, 62 (1975)

Authors: J.W.Boldeman, B.J.Allen, A.R.de L. Musgrove, R.L.Macklin

Title: The Neutron Capture Cross Section of Natural Silicon

Keyword abstract: NUCLEAR REACTIONS ^{28}, ^{29}, ^{30}Si(n,γ),E=3-1500 keV; measured σ(E,Eγ). ^{29}, ^{30}, ^{31}Si deduced resonances,J,L,n-width,γ-width,correlation coefficient,valence component. Li(n,α) reaction monitor.

Keynumber: 1973BHZU

Coden: REPT BNL-50379

Keyword abstract: NUCLEAR REACTIONS ^{28}, ^{29}, ^{30}Si(n,γ), (n,n'γ),analyzed σ(E). ^{28}, ^{29}, ^{30}, ^{31}Si compiled level,γ ray properties.

Keynumber: 1972JAZK

Coden: REPT INDC(SEC)-28/L,P139,12/1/72,NDP

Keyword abstract: NUCLEAR REACTIONS ^{30}Si, ^{34}S(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{35}S, ^{31}S; deduced transitions.

Keynumber: 1972DZ13

Reference: Yad.Fiz. 15, 1093 (1972); Sov.J.Nucl.Phys. 15, 605 (1972)

Authors: J.D.Jafar, A.A.Abdullah, N.K.Al-Kuraishi, M.S.Alvash, M.A.Khalil, A.M.Demidov

Title: Spectra of γ Rays Produced in Si^{30} and S^{34} Capture of Thermal Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{30}Si, ^{34}S(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{31}Si, ^{35}S deduced levels,J,π,γ-branching.

Keynumber: 1971RYZZ

Reference: Proc.Int.Conf.Chemical Nuclear Data, Measurements and Applications, Canterbury, England, M.L.Hurrell, Ed., Institution of Civil Engineers, London, p.139 (1971)

Authors: T.B.Ryves

Title: Thermal Neutron Capture Cross Section Measurements at the NPL

Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{26}Mg, ^{27}Al, ^{30}Si, ^{37}Cl, ^{41}K, ^{50}Ti, ^{51}V, ^{58}Fe, ^{64}Ni, ^{63}, ^{65}Cu, ^{69}, ^{71}Ga, ^{75}As, ^{79}, ^{81}Br, ^{89}Y, ^{107}, ^{109}Ag, ^{115}In, ^{121}, ^{123}Sb, ^{127}I, ^{139}La, ^{151}Eu, ^{196}, ^{198}Pt (n,γ),E=thermal; measured σ.

Keynumber: 1971RYZX

Coden: CONF Canterbury(Chem Nucl Data),P139,12/10/72
Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{26}Mg, ^{27}Al, ^{30}Si, ^{37}Cl, ^{41}K, ^{50}Ti, ^{51}V, ^{58}Fe, ^{64}Ni, ^{63}, ^{65}Cu, ^{69}, ^{71}Ga, ^{75}As, ^{79}Br, ^{81}Br, ^{89}Y, ^{107}, ^{109}Ag, ^{115}In, ^{121}, ^{123}Sb, ^{127}I, ^{139}La, ^{151}Eu, ^{196}, ^{198}Pt (n,γ),E=thermal; measured σ; deduced resonance integrals.

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

Keynumber: 1970JAZO
Reference: Nucl.Research Inst., Tuwaitha, Baghdad, Iraq Report No.PH-9 (1970)
Authors: J.D.Jafar, A.A.Abdulla, N.H.Al-Quraishi, M.S.Alwash, M.A.Khalil, A.M.Demidov
Title: Gamma Rays from Thermal Neutron Capture in ^{30}Si and ^{34}S
Keyword abstract: NUCLEAR REACTIONS ^{30}Si, ^{34}S(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{31}Si, ^{35}S deduced levels,γ-branching.

Keynumber: 1970JAZN
Coden: REPT PH-7,J Jafar
Keyword abstract: NUCLEAR REACTIONS ^{20}Ne, ^{24}Mg, ^{30}Si, ^{32}S, ^{34}S, ^{36}Ar, ^{40}Ca, ^{27}Al (n,γ),E=thermal; surveyed,analyzed Eγ,Iγ data. ^{21}Ne, ^{25}Mg, ^{31}Si, ^{33}, ^{35}S, ^{37}Ar, ^{41}Ca, ^{28}Al deduced levels,γ-branching.

Keynumber: 1970JAZM
Coden: REPT IAEA TA 523
Keyword abstract: NUCLEAR REACTIONS ^{30}Si, ^{34}S(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{31}Si, ^{35}S deduced levels,J,π.

Keynumber: 1970BE48
Reference: Nucl.Phys. A157, 520 (1970)
Authors: G.B.Beard, G.E.Thomas
Title: Gamma Rays from Thermal Neutron Capture in ^{28}Si, ^{29}Si, and ^{30}Si
Keyword abstract: NUCLEAR REACTIONS ^{28}, ^{29}, ^{30}Si(n,γ),En=thermal; measured Eγ,Iγ; deduced Q. ^{29}, ^{30}, ^{31}Si deduced levels,γ-branching. Enriched targets, Ge(Li) detector.

Keynumber: 1967CS01
Reference: Nucl.Phys. A95, 229(1967)
Authors: J.Csikai, G.Peto, M.Buczko, Z.Miligy, N.A.Eissa
Title: Radiative Capture Cross Sections for 14.7 MeV Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{30}Si, ^{31}P, ^{45}Sc, ^{48}Ca, ^{50}Ti, ^{51}V, ^{89}Y, ^{123}Sb, ^{139}La, ^{209}Bi(n,γ), E = 14.7 MeV; measured σ. ^{23}Na, ^{55}Mn, ^{103}Rh, ^{141}Pr, ^{165}Ho, ^{208}Pb(n,γ), E = 13.4-15.0 MeV; measured σ(E). ^{103}Rh(n,γ), E = 13.4-15.0 MeV; measured σ(g)/σ(M); deduced spin cutoff parameter. Enriched ^{30}Si, ^{48}Ca targets.