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36 reference(s) found :

Keynumber: 1997VE03
Reference: Appl.Radiat.Isot. 48, 493 (1997)
Authors: L.Venturini, B.R.S.Pecequilo
Title: Thermal Neutron Capture Cross-Section of ^{48}Ti, ^{51}V, ^{50}, ^{52}, ^{53}Cr and ^{58}, ^{60}, ^{62}, ^{64}Ni
Keyword abstract: NUCLEAR REACTIONS ^{48}Ti, ^{51}V, ^{50}, ^{52}, ^{53}Cr, ^{58}, ^{60}, ^{62}, ^{64}Ni(n,γ),E=thermal; measured Eγ,Iγ; deduced capture σ.

Keynumber: 1994CO09
Reference: Nuovo Cim. 107A, 85 (1994)
Authors: C.Coceva
Title: Radiative Transitions from Neutron Capture in ^{53}Cr Resonances
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=white source; measured Eγ,Iγ. ^{54}Cr deduced resonance,J,π,E1 transition radiative reduced widths.

Keynumber: 1992KU17
Reference: Nucl.Phys. A549, 59 (1992)
Authors: A.Kuronen, J.Keinonen, H.G.Borner, J.Jolie, S.Ulbig
Title: Molecular Dynamics Simulations Applied to the Determination of Nuclear Lifetimes from Dopler-Broadened γ-Ray Line Shapes Produced in Thermal Neutron Capture Reactions
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{48}Ti, ^{53}Cr, ^{56}Fe, ^{60}, ^{58}Ni(n,γ),E=thermal; analyzed Doppler broadened γ-ray line shapes. ^{36}Cl levels deduced $T_{1/2}$,M1,E2 transition matrix elements,branching ratio. ^{49}Ti, ^{54}Cr, ^{57}Fe, ^{61}, ^{59}Ni levels deduced $T_{1/2}$. Molecular dynamics simulations.

Keynumber: 1991KOZY
Reference: Program and Thesis, Proc.41st Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Minsk, p.48 (1991)
Authors: S.A.Kovalenko, Yu.E.Koshutsky, V.T.Kupryashkin, N.S.Kravets, V.A.Stepanenko, N.V.Strilchuk, A.I.Feoktistov, I.P.Shapovalova
Title: Measurement of Lifetimes of ^{54}Cr Levels in the (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal; measured DSA. ^{54}Cr levels deduced $T_{1/2}$.

Keynumber: 1991KO44
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 55, 2156 (1991); Bull.Acad.Sci.Ussr, Phys.Ser. 55, No.11, 73 (1991)
Authors: S.A.Kovalenko, Yu.E.Koshutsky, V.T.Kupryashkin, N.S.Kravets, N.V.Strilchuk, A.I.Feoktistov, I.P.Shapovalova
Title: Lifetime of the Levels of ^{54}Cr in (nγ) Reaction with Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal; measured γγ-coin,DSA. ^{54}Cr levels deduced $T_{1/2}$.

Keynumber: 1989HO15

Reference: Nucl.Phys. A500, 111 (1989)
Authors: C.Hofmeyr
Title: ^{53}Cr(n,γ); Transition energies and levels excited in thermal neutron capture
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal; measured Eγ,Iγ. ^{54}Cr deduced levels,branching ratios. Enriched target.

Keynumber: 1989CO01
Reference: J.Phys.(London) G15, 321 (1989)
Authors: S.P.Collins, S.A.Eid, S.A.Hamada, W.D.Hamilton, F.Hoyler
Title: A Search for Mixed-Symmetry States in the Mass A ≈ 50 Region
Keyword abstract: RADIOACTIVITY ^{56}Mn(β^-); measured γ(θ). ^{56}Fe levels deduced δ. Cryogenically oriented nuclei.
Keyword abstract: NUCLEAR REACTIONS ^{47}Ti, ^{53}Cr, ^{57}Fe(n,γ),E=thermal; measured γγ(θ). ^{48}Ti, ^{54}Cr, ^{58}Fe levels deduced δ,μ,B(λ). Enriched target,on-line directional correlations.

Keynumber: 1988LI30
Reference: Phys.Lett. 215B, 50 (1988)
Authors: K.P.Lieb, H.G.Borner, M.S.Dewey, J.Jolie, S.J.Robinson, S.Ulbig, Ch.Winter
Title: Doppler Shift Attenuation Lifetime Measurements in ^{54}Cr following Thermal Neutron Capture
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal; measured Doppler broadened γ-line shapes. ^{54}Cr levels deduced $T_{1/2}$,B(M1).
Keyword abstract: NUCLEAR STRUCTURE ^{52}Ti, ^{54}Cr, ^{56}Fe; calculated 2^+ states,B(M1).

Keynumber: 1986BR12
Reference: Radiat.Eff. 93, 297 (1986)
Authors: A.Brusegan, R.Buyl, F.Corvi, L.Mewissen, F.Poortmans, G.Rohr, R.Shelley, T.Van Der Veen, I.Van Marcke
Title: High Resolution Neutron Capture and Total Cross Section Measurements of ^{50}Cr, ^{52}Cr and ^{53}Cr
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr(n,γ), (n,X),E ≤ 800 keV; measured transmission,capture γ yield. ^{51}, ^{53}, ^{54}Cr deduced resonances,J,L,gΓn,gΓγ.

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: 1982RA32
Reference: Indian J.Pure Appl.Phys. 20, 627 (1982)
Authors: S.K.Rathi, V.P.Varshney, H.M.Agrawal
Title: Calculations of Neutron Capture Cross-Sections for some Nuclei using Bilpuch Formula
Keyword abstract: NUCLEAR REACTIONS ^{40}, ^{43}Ca, ^{52}, ^{53}Cr, ^{54}, ^{56}Fe, ^{88}Sr, ^{90}, ^{91}, ^{92}, ^{94}Zr, ^{93}Nb,

^{92}, ^{94}, ^{95}, ^{96}, ^{97}, ^{98}, ^{100}Mo, ^{138}Ba, ^{139}La, ^{140}Ce, ^{203}Tl(n,γ),E=24 keV; calculated σ(capture). Experimental parameters,Bilpuch formula.

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: 1980IS02
Reference: Can.J.Phys. 58, 168 (1980)
Authors: M.A.Islam, T.J.Kennett, S.A.Kerr, W.V.Prestwich
Title: A Self-Consistent Set of Neutron Separation Energies
Keyword abstract: NUCLEAR REACTIONS ^{1}H, ^{9}Be, ^{14}N, ^{24}, ^{25}Mg, ^{27}Al, ^{28}, ^{29}Si, ^{32}S, ^{35}Cl, ^{40}, ^{44}Ca, ^{47}, ^{48}, ^{49}Ti, ^{50}, ^{52}, ^{53}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}Fe(n,γ),E=thermal; measured Eγ,Iγ. ^{2}H, ^{10}Be, ^{25}, ^{26}Mg, ^{28}Al, ^{29}, ^{30}Si, ^{33}S, ^{36}Cl, ^{41}, ^{45}Ca, ^{48}, ^{49}, ^{50}Ti, ^{51}, ^{53}, ^{54}Cr, ^{56}Mn, ^{55}, ^{57}, ^{58}Fe deduced Q,neutron binding energy.

Keynumber: 1979ASZZ
Reference: NEANDC(J)-61/U, p.14 (1979)
Authors: T.Asami, N.Sekine
Title: Evaluation of Cr Neutron Cross Sections for JENDL-2
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}, ^{54}Cr(n,γ), (n,n), (n,n'), (n,2n), (n,p), (n,α), (n,n'p),E=.0001 ev-20 MeV; evaluated σ. Multi-level Breit-Wigner formula,optical,statistical model analyses.

Keynumber: 1975BE07
Reference: Nucl.Phys. A240, 29 (1975)
Authors: H.Beer, R.R.Spencer
Title: keV Neutron Radiative Capture and Total Cross Section of ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{57}Fe, and ^{62}, ^{64}Ni
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{57}Fe, ^{62}, ^{64}Ni(n,γ),E=5-200 keV; ^{50}, ^{52}Cr, ^{54}Fe, ^{62}, ^{64}Ni(n,t),E=10-300 keV; measured σ(E,Eγ),σ(E,Et). ^{51}, ^{53}, ^{54}Cr, ^{55}, ^{58}Fe, ^{63}, ^{65}Ni deduced resonances,J,L,n-width,γ-width. Enriched targets.

Keynumber: 1974KEZR
Coden: REPT INDC(SWT)-5/L
Keyword abstract: RADIOACTIVITY ^{22}, ^{24}Na, ^{46}Sc, ^{51}Cr, ^{54}Mn, ^{56}, ^{57}, ^{60}Co, ^{88}Y, ^{94}Nb, ^{140}La, ^{203}Hg, ^{207}Bi, ^{208}Tl, ^{241}Am, ^{182}Ta, ^{192}Ir, ^{110m}Ag, ^{180m}Hf; measured nothing, compiled Eγ. ^{56}Co, ^{180m}Hf, ^{137}Cs, ^{198}Au, ^{57}Co, ^{108m}Ag, ^{22}Na, ^{24}Na, ^{46}Sc, ^{60}Co, ^{228}Th; measured nothing,compiled Iγ.
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ), ^{48}Ti(n,γ), ^{52}Cr(n,γ); measured nothing,compiled Eγ,Iγ.

Keynumber: 1974BEXF
Coden: REPT KFK-2063,CRL
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{57}Fe, ^{62}, ^{64}Ni(n,γ),E <300 keV;

measured σ(E,Eγ). ^{51}, ^{53}, ^{54}Cr, ^{55}, ^{58}Fe, ^{63}, ^{65}Ni deduced resonances.

Keynumber: 1973SP06
Reference: Nucl.Phys. A215, 260 (1973)
Authors: A.M.J.Spits, J.A.Akkermans
Title: Investigation of the Reaction ^{37}Cl(n,γ)^{38}Cl
Keyword abstract: NUCLEAR REACTIONS ^{37}Cl, ^{32}S, ^{50}, ^{52}, ^{53}Cr, ^{56}Fe(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{38}Cl deduced levels,γ-branching.
Keyword abstract: RADIOACTIVITY ^{38}Cl; measured Eγ,Iγ. Deduced β- branching, ^{38}Ar deduced transitions. Natural, ^{37}Cl enriched target.

Keynumber: 1973LAYM
Coden: REPT LF-42 P1
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr(n,γ), measured σ(Eγ). ^{51}, ^{53}, ^{54}Cr deduced levels.

Keynumber: 1973BEWY
Coden: REPT EANDC(E)157-U,P1
Keyword abstract: NUCLEAR REACTIONS ^{54}, ^{57}Fe, ^{50}, ^{52}, ^{53}Cr, ^{62}, ^{64}Ni(n,γ),E=5-200 keV; measured σ.

Keynumber: 1972LO26
Reference: Nucl.Instrum.Methods 105, 453 (1972)
Authors: G.D.Loper, G.E.Thomas
Title: Gamma-Ray Intensity Standards: the Reactions ^{14}N(n,γ)^{15}N, ^{35}Cl(n,γ)^{36}Cl and ^{53}Cr(n,γ)^{54}Cr
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{50}, ^{52}, ^{53}Cr, ^{14}N, ^{207}Pb(n,γ);E=thermal; ^{36}Cl, ^{51}, ^{53}, ^{54}Cr measured Eγ,Iγ.

Keynumber: 1972LAYI
Coden: REPT NP-19337,P1
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr(n,γ); ^{51}, ^{53}, ^{54}Cr deduced levels.

Keynumber: 1972BEVV
Coden: REPT KFK-1676 P3
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{57}Fe, ^{62}, ^{64}Ni(n,γ); measured σ(E).

Keynumber: 1971STZR
Coden: REPT RPI-328-218,P33,9/10/71
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}, ^{54}Cr, ^{60}Ni,V(n,γ),E <200 keV; measured σ (Eγ). ^{51}, ^{53}, ^{54}, ^{55}Cr, ^{61}Ni, ^{52}V deduced resonance parameters.

Keynumber: 1971ST07
Reference: Nucl.Phys. A163, 592 (1971)
Authors: R.G.Stieglitz, R.W.Hockenbury, R.C.Block
Title: keV Neutron Capture and Transmission Measurements on ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{60}Ni and V
Keyword abstract: NUCLEAR REACTIONS V, ^{50}Cr, ^{52}Cr, ^{53}Cr, ^{54}Cr, ^{60}Ni(n,γ),En=0.1 to 200 keV,, (n,t),En=0.1 to 350 keV; measured capture yield, transmission versus En; deduced σ(nγ), σ(nT),n-

width,level spacing, R'. ^{51}, ^{53}, ^{54}, ^{55}Cr, ^{61}Ni deduced resonances J,L,n-width,γ-width,Aγ. Enriched targets.

Keynumber: 1971BR19
Reference: Yad.Fiz. 13, 233 (1971); Sov.J.Nucl.Phys. 13, 129 (1971)
Authors: D.L.Broder, A.F.Gamalii, B.V.Zemtsev, B.V.Nesterov, L.P.Khamyanov
Title: γ Radiation in the Capture of Thermal Neutrons by Cr Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr(n,γ),E=thermal; measured Eγ,Iγ. ^{51}, ^{53}, ^{54}Cr deduced levels,J,π,γ-branching. Ge(Li) detector.

Keynumber: 1971BR08
Reference: Yad.Fiz. 13, 3 (1971); Sov.J.Nucl.Phys. 13, 1 (1971)
Authors: D.L.Broder, A.F.Gamalii, B.V.Zemtsev, B.V.Nesterov, L.P.Khamyanov
Title: Measurement of γ-Ray Spectra from Capture of Intermediate Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal,2,25 keV; measured σ(Eγ). ^{54}Cr deduced transitions.

Keynumber: 1971BLZS
Coden: CONF CONF-710301(Knoxville),Vol2,P889,11/2/71
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}, ^{54}Cr,V, ^{60}Ni(n,γ),E=resonance; analyzed available data. ^{51}, ^{53}, ^{54}, ^{55}Cr, ^{52}V, ^{61}Ni deduced resonance parameters.

Keynumber: 1970STZY
Coden: THESIS R G Stieglitz, RPI, DABBB 31B 6822
Keyword abstract: NUCLEAR REACTIONS V, ^{60}Ni, ^{50}, ^{52}, ^{53}, ^{54}Cr(n,X), (n,γ),E <300 keV; measured transmission,σ(E;Eγ). ^{61}Ni, ^{51}, ^{53}, ^{54}, ^{55}Cr deduced resonance parameters.

Keynumber: 1970BRZJ
Coden: REPT FEI-205,D Broder,5/29/72
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{56}Fe(n,γ); measured Eγ,Iγ. ^{51}, ^{53}, ^{54}Cr deduced levels,γ-branching.

Keynumber: 1970BLZS
Coden: REPT RPI-328-222, R C Block,10/13/71
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}, ^{54}Cr,V, ^{60}Ni(n,X), (n,γ),E=resonance; measured σ(E),σ(E,Eγ). ^{51}, ^{53}, ^{54}, ^{55}Cr deduced resonances,level-width.

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: 1969BE53
Reference: Yadern.Fiz. 9, 100 (1969); Soviet J.Nucl.Phys. 9, 60 (1969)
Authors: V.I.Belousova, E.A.Rudak, E.I.Firsov

Title: 'Direct' Capture of Thermal Neutrons by Nuclei with A Approx. 50
Keyword abstract: NUCLEAR REACTIONS ^{41}, ^{47}Ca, ^{53}Cr, ^{57}Fe(n,γ), E = thermal; calculated σ. Woods-Saxon potential.

Keynumber: 1968WH03
Reference: Nucl.Instr.Methods 66, 70 (1968)
Authors: D.H.White, D.J.Groves, R.E.Birkett
Title: Precision Measurements of Gamma Rays from ^{60}Co, ^{41}Ar and ^{53}Cr(n,γ)^{54}Cr
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ), E= thermal; measured Eγ; deduced Q.
Keyword abstract: RADIOACTIVITY ^{60}Co, ^{41}Ar; measured Eγ.

Keynumber: 1967KA27
Reference: Nucl.Instr.Methods 56, 189 (1967)
Authors: W.R.Kane, M.A.Mariscotti
Title: An Empirical Method for Determining the Relative Efficiency of a Ge(Li) Gamma-Ray Detector
Keyword abstract: NUCLEAR REACTIONS ^{53}Cr(n,γ),E=thermal; measured Iγ,Eγ. ^{54}Cr deduced transitions. Ge(Li) detector.
Keyword abstract: RADIOACTIVITY ^{228}Th; measured Iγ. ^{22}, ^{24}Na, ^{108m}Ag, ^{180m}Hf; reevaluated Iγ. Ge(Li) detector.

Keynumber: 1966WAZY
Reference: Proc.Intern.Conf.Study of Nucl.Struct.With Neutrons, Antwerp, Belgium (1965), M.N.de Mevergnies, P.Van Assche, J.Vervier, Eds., North-Holland Publishing Co., Amsterdam, p.536 (1966); EANDC-50-S, Paper 99 (1966)
Authors: R.Wagner, W.M.Good, D.Paya
Title: s-Wave Neutron Strength Functions of Isotopes in the 3s-Resonance Region 40 <A <70
Keyword abstract: NUCLEAR REACTIONS ^{43}Ca, ^{47}, ^{49}Ti, ^{53}Cr, ^{57}Fe, ^{61}Ni(n,γ),E=2-60 keV; σ(nt)(E). ^{44}Ca, ^{48}, ^{50}Ti, ^{54}Cr, ^{58}Fe, ^{62}Ni deduced resonances,level spacings,strength functions.
