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32 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 ⁴⁸Ti, ⁵¹V, ⁵⁰, ⁵², ⁵³Cr and ⁵⁸, ⁶⁰, ⁶², ⁶⁴Ni

Keyword abstract: NUCLEAR REACTIONS ⁴⁸Ti, ⁵¹V, ⁵⁰, ⁵², ⁵³Cr, ⁵⁸, ⁶⁰, ⁶², ⁶⁴Ni(n, γ),E=thermal;

measured E γ ,I γ ; deduced capture σ .

Kevnumber: 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 ⁴⁵Sc, ⁵⁰Cr, ⁵⁹Co, ⁶⁴Zn, ⁷⁵As, ⁸⁵Rb, ¹¹³In, ¹²¹, ¹²³Sb, ¹³⁰Ba, ¹³³Cs, ¹³⁹La, ¹⁴⁰, ¹⁴²Ce, ¹⁴⁶Nd, ¹⁵¹, ¹⁵³Eu, ¹⁵²Gd, ¹⁵²Sm, ¹⁵⁹Tb, ¹⁶⁵Ho, ¹⁷⁴Yb, ¹⁸⁰Hf, ¹⁸¹Ta, ¹⁸⁶W, ²³²Pa, ²³⁸Np(n,γ),E=reactor; measured Eγ,Iγ; deduced capture σ ,resonance integral,least-squares fit parameters. Multi-element standard.

Kevnumber: 1995MO40

Reference: Aust.J.Phys. 48, 125 (1995) **Authors:** A.J.Morton, D.G.Sargood

Title: Thermonuclear Reactions Rates for Reactions Leading to N = 28 Nuclei

Keyword abstract: NUCLEAR REACTIONS ⁴⁴, ⁴⁶K, ⁴⁶, ⁴⁷, ⁴⁸Ca, ⁴⁵, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰Sc, ⁴⁶, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰Ti, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰, ⁵¹V, ⁴⁸, ⁴⁹, ⁵⁰, ⁵¹, ⁵²Cr, ⁵¹, ⁵², ⁵³Mn, ⁵², ⁵³, ⁵⁴Fe, ⁵⁵Co(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E not given; ⁵⁶Ni(n,γ), (n,p), (n,α), (α,γ), (α,n), (α,p),E not given; ⁴⁶Ar, ⁴⁵, ⁴⁷K (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E not given; calculated stellar reaction rates vs temperature. Statistical model calculations, optical-model potential.

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 ⁵⁰Cr, ⁵²Cr and ⁵³Cr

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵², ⁵³Cr(n, γ), (n,X),E \leq 800 keV; measured

transmission,capture γ yield. ⁵¹, ⁵³, ⁵⁴Cr deduced resonances,J,L,g Γ n,g $\Gamma\gamma$.

Kevnumber: 1984SI04

Reference: J.Radioanal.Nucl.Chem. 81, 369 (1984) **Authors:** A.Simonits, F.De Corte, L.Moens, J.Hoste

Title: Critical Evaluation and Experimental Determination of the Nuclear Activation and Decay

Parameters for the Reactions: ${}^{50}Cr(n,\gamma){}^{51}Cr$, ${}^{58}Fe(n,\gamma){}^{59}Fe$, ${}^{109}Ag(n,\gamma){}^{110m}Ag$

Keyword abstract: NUCLEAR REACTIONS 50 Cr, 58 Fe, 109 Ag(n, γ),E=thermal; analyzed I γ ,other

activation data; deduced σ .

Kevnumber: 1983SA30

Reference: Aust.J.Phys. 36, 583 (1983)

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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 ⁴⁵Sc, ⁵⁰Ti, ⁵⁰Cr, ⁵¹V, ⁵⁵Mn, ⁵⁸Fe, ⁵⁹Co, ⁷⁴Se, ⁸⁵Rb, ⁹⁴, ⁹⁶Zr, ¹²³Sb, ¹³⁰Ba, ¹³³Cs, ¹³⁹La, ¹⁴⁰Ce, ¹⁵⁹Tb, ¹⁸⁰Hf, ¹⁸¹Ta, ¹⁹⁷Au(n,γ),E=thermal,epithermal;

analyzed data. Generalized least-squares fit.

Keynumber: 1980PIZN

Coden: CONF Kiev(Neutron Physics) Proc, Part3, P270, Pisanko

Keyword abstract: NUCLEAR REACTIONS ²², ²³Na,Mg, ²⁴, ²⁵, ²⁶Mg, ²⁷Al,Si, ²⁸, ²⁹, ³⁰Si, ³¹P,S, ³², ³³, ³⁴S,Cl, ³⁵, ³⁶, ³⁷Cl,Ar, ³⁶, ³⁸, ⁴⁰Ar,K, ³⁹, ⁴⁰, ⁴¹K,Ca, ⁴⁰, ⁴², ⁴³, ⁴⁴, ⁴⁶, ⁴⁸Ca, ⁴⁵, ⁴⁶Sc,Ti, ⁴⁶, ⁴⁷, ⁴⁸, ⁴⁹, ⁵⁰Ti,V, ⁵⁰, ⁵¹V,Cr, ⁵⁰, ⁵², ⁵³, ⁵⁴Cr,Fe, ⁵⁴, ⁵⁶, ⁵⁷, ⁵⁸Fe, ⁵⁹Co,Ni, ⁵⁸, ⁵⁹, ⁶⁰, ⁶¹, ⁶², ⁶⁴Ni,Cu, ⁶³, ⁶⁵Cu,Zn, ⁶⁴, ⁶⁶, ⁶⁷, ⁶⁸, ⁷⁰Zn,Ga, ⁶⁹, ⁷¹Ga(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 ¹H, ⁹Be, ¹⁴N, ²⁴, ²⁵Mg, ²⁷Al, ²⁸, ²⁹Si, ³²S, ³⁵Cl, ⁴⁰, ⁴⁴Ca, ⁴⁷, ⁴⁸, ⁴⁹Ti, ⁵⁰, ⁵², ⁵³Cr, ⁵⁵Mn, ⁵⁴, ⁵⁶, ⁵⁷Fe(n,γ),E=thermal; measured Εγ,Ιγ. ²H, ¹⁰Be, ²⁵, ²⁶Mg, ²⁸Al, ²⁹, ³⁰Si, ³³S, ³⁶Cl, ⁴¹, ⁴⁵Ca, ⁴⁸, ⁴⁹, ⁵⁰Ti, ⁵¹, ⁵³, ⁵⁴Cr, ⁵⁶Mn, ⁵⁵, ⁵⁷, ⁵⁸Fe deduced Q,neutron binding energy.

Kevnumber: 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, ⁵⁴Cr(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.

Kevnumber: 1975KOZE

Coden: CONF Petten(Neutron Capture γ-Ray Spect),Proc P155

Keyword abstract: NUCLEAR REACTIONS 50 Cr(n, γ),E=th; measured E γ ,I γ ; deduced Q. 51 Cr

deduced levels, y-branching.

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Kevnumber: 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, ⁵³Cr, ⁵⁴, ⁵⁷Fe, and ⁶², ⁶⁴Ni **Keyword abstract:** NUCLEAR REACTIONS ⁵⁰, ⁵², ⁵³Cr, ⁵⁴, ⁵⁷Fe, ⁶², ⁶⁴Ni(n,γ),E=5-200 keV; ⁵⁰, 52 Cr, 54 Fe, 62 , 64 Ni(n,t),E=10-300 keV; measured σ (E,E γ), σ (E,Et). 51 , 53 , 54 Cr, 55 , 58 Fe, 63 , 65 Ni

deduced resonances, J, L, n-width, y-width. Enriched targets.

Kevnumber: 1974KOYY

Reference: Contrib.Int.Symp.Neutron Capture Gamma Ray Spectrosc.and Related Topics, 2nd, Petten,

p.325 (1974)

Authors: J.Kopecky

Title: Investigation of the Reaction ${}^{50}Cr(n,\gamma){}^{51}Cr$

Keyword abstract: NUCLEAR REACTIONS ⁵⁰Cr(n,γ),E=thermal; measured Eγ,Iγ; deduced O. ⁵¹Cr

deduced levels.

Keynumber: 1974KOYP **Reference:** RCN-214 (1974)

Authors: J.Kopecky

Title: Investigation of the Reaction 50 Cr(n, γ) 51 Cr

Keyword abstract: NUCLEAR REACTIONS ⁵⁰Cr(n,γ),E=thermal; measured Eγ,Ιγ; deduced Q. ⁵¹Cr

deduced levels, J, π, γ -branching.

Keynumber: 1974HAXO Coden: REPT USNDC-11 P11

Keyword abstract: NUCLEAR REACTIONS ¹⁰⁸, ¹¹⁰Pd, ¹⁴⁶Nd, ⁵⁰Cr, ⁶⁴Ni(n, y).E=not given:

measured σ .

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 $\sigma(E,E\gamma)$. ⁵¹, ⁵³, ⁵⁴Cr, ⁵⁵, ⁵⁸Fe, ⁶³, ⁶⁵Ni deduced resonances.

Kevnumber: 1973SP06

Reference: Nucl. Phys. A215, 260 (1973) **Authors:** A.M.J.Spits, J.A.Akkermans

Title: Investigation of the Reaction ${}^{37}Cl(n,\gamma){}^{38}Cl$

Keyword abstract: NUCLEAR REACTIONS ³⁷Cl, ³²S, ⁵⁰, ⁵², ⁵³Cr, ⁵⁶Fe(n,γ),E=thermal; measured

Eγ,Ιγ; deduced Q. ³⁸Cl deduced levels,γ-branching.

Keyword abstract: RADIOACTIVITY ³⁸Cl; measured Eγ,Iγ. Deduced β- branching, ³⁸Ar deduced

transitions. Natural, ³⁷Cl enriched target.

Keynumber: 1973LAYM Coden: REPT LF-42 P1

Keyword abstract: NUCLEAR REACTIONS 50 , 52 , 53 Cr(n, γ), measured σ (E γ). 51 , 53 , 54 Cr deduced

levels.

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Keynumber: 1973BEWY

Coden: REPT EANDC(E)157-U,P1

Keyword abstract: NUCLEAR REACTIONS ⁵⁴, ⁵⁷Fe, ⁵⁰, ⁵², ⁵³Cr, ⁶², ⁶⁴Ni(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, ⁵⁴Cr measured Eγ,Ιγ.

TZ 1072

Keynumber: 1972LAYI **Coden:** REPT NP-19337,P1

Keyword abstract: NUCLEAR REACTIONS 50 , 52 , 53 Cr(n, γ); 51 , 53 , 54 Cr deduced levels.

Keynumber: 1972KOZJ

Coden: CONF Budapest, Contributions, P234, J Kopecky, 10/13/72

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵²Cr, ⁵⁴Fe, ⁶⁰, ⁶²Ni(n,γ); measured γ-CP. ⁵¹, ⁵³Cr,

⁵⁵Fe, ⁶¹, ⁶³Ni levels deduced L(n),J.

Keynumber: 1972KO15

Reference: Nucl. Phys. A188, 535 (1972)

Authors: J.Kopecky, K.Abrahams, F.Stecher-Rasmussen

Title: Study of the (n,γ) Reaction in the Mass Region A = 50 - 63

Keyword abstract: NUCLEAR REACTIONS ⁵⁰Cr, ⁵²Cr, ⁵⁴Fe, ⁶⁰Ni, ⁶²Ni(polarized n,γ):E= thermal;

measured Ey, Iy, y-CP; deduced Q. ⁵¹Cr, ⁵³Cr, ⁵⁵Fe, ⁶¹Ni, ⁶³Ni levels deduced J. Enriched targets.

Keynumber: 1972BEVV **Coden:** REPT KFK-1676 P3

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵², ⁵³Cr, ⁵⁴, ⁵⁷Fe, ⁶², ⁶⁴Ni(n, γ); measured σ (E).

Kevnumber: 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, ⁵⁵Cr, ⁶¹Ni, ⁵²V 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 ⁵⁰Cr, ⁵²Cr, ⁵³Cr, ⁵⁴Cr, ⁶⁰Ni 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 (n γ), σ (nT),n-

width, level spacing, R'. 51 , 53 , 54 , 55 Cr, 61 Ni deduced resonances J,L,n-width, γ -width, $A\gamma$. Enriched

targets.

Keynumber: 1971KOZI

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Coden: JOUR NTNAA 37 396,J Kopecky

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵²Cr, ⁵⁴, ⁵⁷Fe, ⁶⁰, ⁶²Ni(n, γ),E=thermal; measured γ -

CP,Q,Εγ,Ιγ. 51 , 53 Cr, 55 , 58 Fe, 61 , 63 Ni deduced levels,J, π .

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, ⁵³Cr(n,γ),E=thermal; measured Eγ,Iγ. ⁵¹, ⁵³, ⁵⁴Cr

deduced levels, J, π, γ -branching. Ge(Li) detector.

Keynumber: 1971BLZS

Coden: CONF CONF-710301(Knoxville), Vol2, P889, 11/2/71

Keyword abstract: NUCLEAR REACTIONS ⁵⁰, ⁵², ⁵³, ⁵⁴Cr,V, ⁶⁰Ni(n,γ),E=resonance; analyzed

available data. ⁵¹, ⁵³, ⁵⁴, ⁵⁵Cr, ⁵²V, ⁶¹Ni 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, $\sigma(E; E\gamma)$. ⁶¹Ni, ⁵¹, ⁵³, ⁵⁴, ⁵⁵Cr 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 E γ ,I γ . 51 , 53 , 54 Cr

deduced levels, y-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 $\sigma(E)$, $\sigma(E,E\gamma)$. 51, 53, 54, 55Cr deduced resonances, level-width.
