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**15 reference(s) found :**

**Keynumber:** [2001KO76](#)

**Reference:** Phys.Rev. C64, 065802 (2001)

**Authors:** P.E.Koehler, J.A.Harvey, R.R.Winters, K.H.Guber, R.R.Spencer

**Title:** High-Resolution Neutron Capture and Transmission Measurements for  $^{116,120}\text{Sn}$ , and Their Stellar Neutron-Capture Cross Sections at s-Process Temperatures

**Keyword abstract:** NUCLEAR REACTIONS  $^{116, 120}\text{Sn}(n,\gamma)$ ,  $(n,X)$ ,  $E=0.05-500$  keV; measured total and capture  $\sigma$ ; deduced resonance parameters, astrophysical reaction rates. Comparison with previous results.

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**Keynumber:** 2000KA30

**Reference:** Appl.Radiat.Isot. 53, 825 (2000)

**Authors:** Ye.A.Karelin, V.N.Efimov, V.T.Filimonov, R.A.Kuznetsov, Yu.L.Revyakin, O.I.Andreev, I.Yu.Zhemkov, V.G.Bukh, V.M.Lebedev, Ye.N.Spiridonov

**Title:** Radionuclide Production using a Fast Flux Reactor

**Keyword abstract:** NUCLEAR REACTIONS  $^{89}\text{Y}$ ,  $^{32, 33}\text{S}$ ,  $^{35}\text{Cl}(n,p)$ ,  $^{116}\text{Sn}$ ,  $^{151}\text{Eu}$ ,  $^{152}\text{Gd}$   $(n,\gamma)$ ,  $E=\text{reactor}$ ; measured yields; deduced irradiation parameters for isotope production in fast flux reactor.

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**Keynumber:** 1997PA24

**Reference:** Bull.Rus.Acad.Sci.Phys. 61, 163 (1997)

**Authors:** I.V.Panov

**Title:** Radiative Neutron Capture and r-Process

**Keyword abstract:** NUCLEAR REACTIONS  $^{116, 118, 120, 122, 124, 119}\text{Sn}$ ,  $^{120, 125, 126, 122, 124, 128, 130}\text{Te}(n,\gamma)$ ,  $E=30$  keV; calculated capture  $\sigma$ ; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

**Keyword abstract:** NUCLEAR STRUCTURE  $A=110-140$ ;  $A=140-180$ ;  $A=230-270$ ; calculated 30 keV neutron capture  $\sigma$  on neutron rich Cd,Pr,U isotopes; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

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**Keynumber:** 1997MI09

**Reference:** Appl.Radiat.Isot. 48, 441 (1997)

**Authors:** S.Mirzadeh, F.F.Knapp, Jr., C.W.Alexander, L.F.Mausner

**Title:** Evaluation of Neutron Inelastic Scattering for Radioisotope Production

**Keyword abstract:** NUCLEAR REACTIONS  $^{117, 119}\text{Sn}$ ,  $^{195}\text{Pt}(n,n')$ ,  $^{194}\text{Pt}$ ,  $^{116}\text{Sn}(n,\gamma)$ ,  $^{118, 120}\text{Sn}$   $(n,2n)$ ,  $^{196}\text{Pt}(n,2n)$ ,  $E=\text{reactor}$ ; measured isomer production  $\sigma$ ; deduced inelastic scattering, neutron scattering, capture production differences.

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**Keynumber:** 1997KOZL

**Reference:** Proc.Intern.on Nuclear Data for Science and Technology, Trieste, Italy, 19-24 May, 1997, G.Reffo, A.Ventura, C.Grandi, Eds., Editrice Compositori, Italy, Pt.2, p.1581 (1997)

**Authors:** P.E.Koehler, R.R.Spencer, K.H.Guber, J.A.Harvey, N.W.Hill, R.R.Winters

**Title:** High-Resolution Neutron Capture and Transmission Measurements and the Stellar Neutron Capture Cross Sections of  $^{116, 120}\text{Sn}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{116, 120}\text{Sn}(n,\gamma)$ ,  $^{116}\text{Sn}(n,X)$ ,  $E=20-200$  keV; measured  $\sigma$ ; deduced reaction rates. Previous data compared. Implications for astrophysical s-process discussed.

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**Keynumber:** [1996WI20](#)

**Reference:** Phys.Rev. C54, 2732 (1996)

**Authors:** K.Wisshak, F.Voss, F.Kappeler

**Title:** Neutron Capture Resonances in  $^{116}\text{Sn}$ ,  $^{118}\text{Sn}$ , and  $^{120}\text{Sn}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{116}$ ,  $^{118}$ ,  $^{120}\text{Sn}(n,\gamma)$ ,  $E=3-20$  keV; measured  $\sigma(n,\gamma)$ .  $^{117}$ ,  $^{119}$ ,  $^{121}\text{Sn}$  deduced resonances, parameters,  $g\Gamma_n\Gamma_\gamma/(\Gamma_n+\Gamma_\gamma)$ , Maxwellian averaged capture  $\sigma$ .

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**Keynumber:** [1996WI14](#)

**Reference:** Phys.Rev. C54, 1451 (1996)

**Authors:** K.Wisshak, F.Voss, Ch.Theis, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, G.Reffo

**Title:** Stellar Neutron Capture Cross Sections of the Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{114}$ ,  $^{115}$ ,  $^{116}$ ,  $^{117}$ ,  $^{118}$ ,  $^{120}\text{Sn}(n,\gamma)$ ,  $E=3-225$  keV; measured capture  $\sigma(E)$ ; deduced Maxwellian averaged  $\sigma$  for stellar temperatures  $kT=10$  to  $100$  keV.

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**Keynumber:** 1995GR22

**Reference:** Yad.Fiz. 58, No 12, 2127 (1995); Phys.Atomic Nuclei 58, 2013 (1995)

**Authors:** O.T.Grudzevich, V.A.Tolstikov

**Title:** Cross Sections for Isomer Excitation in the Radiative Capture and Inelastic Scattering of Neutrons with Energies 0.3-0.7 MeV for Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{116}\text{Sn}(n,\gamma)$ ,  $(n,n')$ ,  $^{122}$ ,  $^{124}\text{Sn}(n,\gamma)$ ,  $E=0.3-0.7$  MeV; measured capture  $\sigma(E)$ , isomer excitation  $\sigma(E)$ . Activation technique. Model comparison.

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**Keynumber:** 1989TI03

**Reference:** Yad.Fiz. 50, 609 (1989)

**Authors:** V.M.Timokhov, M.V.Bokhovko, A.G.Isakov, L.E.Kazakov, V.N.Kononov, G.N.Manturov, E.D.Poletaev, V.G.Pronyaev

**Title:** Neutron Capture, Total Cross Sections and Average Resonance Parameters for Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{112}$ ,  $^{114}$ ,  $^{115}$ ,  $^{116}$ ,  $^{117}$ ,  $^{118}$ ,  $^{119}$ ,  $^{120}$ ,  $^{122}$ ,  $^{124}\text{Sn}(n,\gamma)$ ,  $E=20-450$  keV; measured capture  $\sigma(E)$ .  $^{112}$ ,  $^{114}$ ,  $^{115}$ ,  $^{116}$ ,  $^{117}$ ,  $^{118}$ ,  $^{119}$ ,  $^{120}$ ,  $^{122}$ ,  $^{124}\text{Sn}(n,X)$ ,  $E=20-1400$  keV; measured total  $\sigma(E)$ ; deduced s-,p-wave potential scattering radii, model parameters.  $^{113}$ ,  $^{115}$ ,  $^{116}$ ,  $^{117}$ ,  $^{118}$ ,  $^{119}$ ,  $^{121}$ ,  $^{122}$ ,  $^{123}$ ,  $^{125}\text{Sn}$  deduced s-,p-wave,  $\gamma$ -strength functions.

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**Keynumber:** 1983DE46

**Reference:** J.Radioanal.Chem. 79, 255 (1983)

**Authors:** F.De Corte, L.Moens, A.Simonits, A.De Wispelaere, J.Hoste

**Title:** The Reaction  $^{117}\text{Sn}(n,n')^{117m}\text{Sn}$  as a Primary Interference in  $(n,\gamma)$  Neutron Activation Analysis

**Keyword abstract:** NUCLEAR REACTIONS  $^{116}\text{Sn}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E_\gamma$ ,  $I_\gamma$ ; deduced  $\sigma$ ,  $(n,n')$  reaction interference in  $^{117m}\text{Sn}$  production by activation analysis estimates.

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**Keynumber:** 1978ZA10

**Reference:** Yad.Fiz. 27, 1534 (1978); Sov.J.Nucl.Phys. 27, 808 (1978)

**Authors:** D.F.Zaretskii, V.K.Sirotkin

**Title:** Total Radiative Widths of Neutron Resonances

**Keyword abstract:** NUCLEAR REACTIONS  $^{35}\text{Cl}$ ,  $^{55}\text{Mn}$ ,  $^{68}\text{Zn}$ ,  $^{78}\text{Se}$ ,  $^{88}\text{Sr}$ ,  $^{96}\text{Mo}$ ,  $^{107}\text{Ag}$ ,  $^{116}\text{Sn}$ ,  $^{129}\text{I}$ ,  $^{143}\text{Nd}$ ,  $^{149}\text{Sm}$ ,  $^{161}\text{Dy}$ ,  $^{169}\text{Tm}$ ,  $^{179}\text{Hf}$ ,  $^{191}\text{Ir}$ ,  $^{199}\text{Hg}$ ,  $^{203}\text{Tl}$ ,  $^{235}$ ,  $^{238}\text{U}$ ,  $^{243}\text{Am}(n,\gamma)$ ; calculated total  $\Gamma_\gamma$  assuming dipole transitions.

**Keynumber:** 1975BH01

**Reference:** Phys.Rev. C12, 1457 (1975)

**Authors:** M.R.Bhat, R.E.Chrien, G.W.Cole, O.A.Wasson

**Title:** Neutron-Capture Gamma Rays from  $^{116}\text{Sn}$  and  $^{122}\text{Sn}$  and the Valence Model

**Keyword abstract:** NUCLEAR REACTIONS  $^{116}, ^{122}\text{Sn}(n,\gamma), E=7.724$  MeV; measured  $\sigma(E,\theta)$ .  $^{117}, ^{123}\text{Sn}$  deduced resonances, J,  $\Gamma$ .

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**Keynumber:** 1972BHZZ

**Coden:** CONF Budapest, Contributions, P60, M Bhat, 10/11/72

**Keyword abstract:** NUCLEAR REACTIONS  $^{56}\text{Fe}, ^{96}\text{Zr}, ^{98}\text{Mo}, ^{116}, ^{118}, ^{120}, ^{122}, ^{124}\text{Sn}$  (n, $\gamma$ ), E=resonance; measured  $I\gamma(\theta)$ .  $^{57}\text{Fe}, ^{97}\text{Zr}, ^{99}\text{Mo}, ^{117}, ^{119}, ^{121}, ^{123}, ^{125}\text{Sn}$  resonances, levels deduced J.

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**Keynumber:** 1968HAZW

**Reference:** Proc.Conf.Slow-Neutron-Capture Gamma-Ray Spectr., Argonne, Ill. (1966), F.E.Throw, Ed., ANL-7282, p.507 (1968)

**Authors:** J.A.Harvey, M.J.Martin, G.G.Slaughter

**Title:** High-Resolution Capture Gamma-Ray Measurements from Thermal and Resonance Neutron Capture in  $^{119}\text{Sn}, ^{116}\text{Sn}, ^{122}\text{Sn}$ , and  $^{124}\text{Sn}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{116}, ^{119}, ^{122}, ^{124}\text{Sn}(n,\gamma)$ , E = thermal, resonance; measured  $E\gamma, I\gamma$ .  $^{117}, ^{120}, ^{123}, ^{125}\text{Sn}$  deduced levels. Ge(Li) detector.

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**Keynumber:** 1966HAZY

**Reference:** ORNL-3924, p.37 (1966)

**Authors:** J.A.Harvey, G.G.Slaughter, M.J.Martin

**Title:** High-Resolution Measurements of Gamma Rays from Thermal- and Resonance-Neutron Capture in the Isotopes of Tin

**Keyword abstract:** NUCLEAR REACTIONS  $^{114}, ^{115}, ^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{122}, ^{124}\text{Sn}(n,\gamma), E=\text{thermal}$ , resonance; measured  $\sigma(E\gamma), I\gamma$ .  $^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{121}, ^{123}, ^{125}\text{Sn}$  deduced levels.  $^{118}, ^{122}\text{Sn}$  deduced resonance.