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**18 reference(s) found :**

**Keynumber:** 1999LIZU

**Reference:** INDC(CPR)-049/L, p.10 (1999)

**Authors:** J.Liu, W.Zhang, J.Zhang, T.Liu

**Title:** Theoretical Calculations of Neutron Induced Reaction on  $^{90,91,92,94,96}\text{Zr}$  and  $^{\text{Nat}}\text{Zr}$  in the Energy Region from 0.01 MeV to 20 MeV

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(\text{n,X})$ ,  $(\text{n,n})$ ,  $(\text{n},2\text{n})$ ,  $(\text{n,p})$ ,  $(\text{n},\gamma)$ ,  $^{91}\text{Zr}(\text{n,p})$ ,  $^{92}\text{Zr}(\text{n,p})$ ,  $(\text{n},\alpha)$ ,  $^{94}\text{Zr}(\text{n,n}')$ ,  $(\text{n},\alpha)$ ,  $^{96}\text{Zr}(\text{n},2\text{n})$ ,  $\text{Zr}(\text{n,X})$ ,  $(\text{n,n})$ ,  $(\text{n},\gamma)$ ,  $(\text{n},2\text{n})$ ,  $E=0.01\text{-}20$  MeV; calculated  $\sigma$ . Comparison with data.

**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  $^{40, 43}\text{Ca}$ ,  $^{52, 53}\text{Cr}$ ,  $^{54, 56}\text{Fe}$ ,  $^{88}\text{Sr}$ ,  $^{90, 91, 92, 94}\text{Zr}$ ,  $^{93}\text{Nb}$ ,  $^{92, 94, 95, 96, 97, 98, 100}\text{Mo}$ ,  $^{138}\text{Ba}$ ,  $^{139}\text{La}$ ,  $^{140}\text{Ce}$ ,  $^{203}\text{Tl}(\text{n},\gamma)$ ,  $E=24$  keV; calculated  $\sigma(\text{capture})$ . Experimental parameters, Bilpuch formula.

**Keynumber:** 1981RA01

**Reference:** J.Phys.(London) G7, 53 (1981)

**Authors:** S.K.Rathi, H.M.Agarwal

**Title:** P-Wave Neutron Strength Functions

**Keyword abstract:** NUCLEAR REACTIONS  $^{43}\text{Ca}$ ,  $^{52}\text{Cr}$ ,  $^{56}\text{Fe}$ ,  $^{88}\text{Sr}$ ,  $^{89}\text{Y}$ ,  $^{90, 92, 94}\text{Zr}$ ,  $^{93}\text{Nb}$ ,  $^{92, 94, 95, 96, 97, 98, 100}\text{Mo}$ ,  $^{138}\text{Ba}$ ,  $^{139}\text{La}$ ,  $^{140}\text{Ce}$ ,  $^{203}\text{Tl}(\text{n},\gamma)$ ,  $E=24$  keV; analyzed  $\sigma$ .  $^{44}\text{Ca}$ ,  $^{53}\text{Cr}$ ,  $^{57}\text{Fe}$ ,  $^{89}\text{Sr}$ ,  $^{90}\text{Y}$ ,  $^{91, 93, 95}\text{Zr}$ ,  $^{94}\text{Nb}$ ,  $^{93, 95, 96, 97, 98, 99, 101}\text{Mo}$ ,  $^{139}\text{Ba}$ ,  $^{140}\text{La}$ ,  $^{141}\text{Ce}$ ,  $^{204}\text{Tl}$  deduced p-wave strength function.

**Keynumber:** 1981GU15

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 45, 2093 (1981)

**Authors:** V.G.Guba, M.G.Urin

**Title:** Problem of Effective Charge in the Theory of Valence Mechanism of E1-Photoabsorption

**Keyword abstract:** NUCLEAR REACTIONS  $^{52}\text{Cr}$ ,  $^{90}\text{Zr}(\text{n},\gamma)$ ,  $E$  not given; calculated E1  $\gamma$ -strength function. Valence model, effective charge.

**Keynumber:** 1979LOZS

**Reference:** NEANDC(CAN)-51/L, p.4 (1979)

**Authors:** M.A.Lone, G.A.Bartholomew

**Title:**  $^{90}\text{Zr}(\text{n},\gamma)$  Studies with Thermal Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(\text{n},\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ ; deduced  $\sigma$ .  $^{91}\text{Zr}$  deduced neutron binding energy.

**Keynumber:** 1978LOZX

**Reference:** Proc.Intern.Symp.Neutron Capture Gamma Ray Spectroscopy and Related Topics, 3rd, BNL, Upton (1978), R.E.Chrien, W.R.Kane, eds., Plenum Press, New York, p.675 (1978)

**Authors:** M.A.Lone, G.A.Bartholomew

**Title:**  $^{90}\text{Zr}(n,\gamma)$  Studies with Thermal Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(n,\gamma)$ ,E=thermal; measured  $E\gamma, I\gamma$ ; deduced  $\sigma$ .  $^{91}\text{Zr}$  deduced levels, $\gamma$ -branching,neutron binding energy.

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**Keynumber:** 1978LOZU

**Coden:** CONF BNL(Neutron Capt  $\gamma$ -Ray Spectr),Contrib,No47,Lone

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(n,\gamma)$ ,E=th; measured  $E\gamma, I\gamma, \gamma\gamma$ -coin; deduced Q.  $^{91}\text{Zr}$  levels deduced  $\gamma$ -branching,S(n).

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**Keynumber:** 1978LOZS

**Coden:** REPT AECL-6366,p56,Lone

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(n,\gamma)$ ,E=thermal; measured  $\sigma$ .

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**Keynumber:** 1978LOZQ

**Coden:** REPT AECL-6216,P68,Lone

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(n,\gamma)$ ,E=thermal; measured  $E\gamma, I\gamma, \gamma\gamma$ -coin.  $^{91}\text{Zr}$  deduced neutron binding energy.

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**Keynumber:** 1978KEZT

**Reference:** Proc.Intern.Symp. Neutron Capture Gamma Ray Spectroscopy and Related Topics, 3rd, BNL, Upton, (1978), R.E.Chrien, W.R.Kane, eds., Plenum Press, New York, p.646 (1978)

**Authors:** M.J.Kenny, M.L.Stelts, R.E.Chrien

**Title:** Capture of 2 and 24 keV Neutrons by the Zirconium Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}, ^{91}, ^{92}, ^{94}, ^{96}\text{Zr}(n,\gamma)$ ,E=2,24 keV; measured  $\sigma(E\gamma), I\gamma$ .  $^{92}, ^{93}, ^{95}\text{Zr}$  deduced levels,J, $\pi$ ,binding energies. Enriched,natural targets.

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**Keynumber:** 1977BA33

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 41, 101 (1977); Bull.Acad.Sci.USSR, Phys.Ser. 41, No.1, 82 (1977)

**Authors:** I.F.Barchuk, G.V.Belykh, V.I.Golyshkin, A.F.Ogorodnik, M.M.Tuchinskii

**Title:**  $\gamma$ -Rays Emitted in the Thermal-Neutron Reactions  $^{90}, ^{92}, ^{94}, ^{96}\text{Zr}(n,\gamma)^{91}, ^{93}, ^{95}, ^{97}\text{Zr}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}, ^{92}, ^{94}, ^{96}\text{Zr}(n,\gamma)$ ,E=thermal; measured  $E\gamma, I\gamma$ ; deduced Q.  $^{91}, ^{93}, ^{95}, ^{96}\text{Zr}$  deduced levels, $\gamma$ -branching.

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**Keynumber:** 1976BAYM

**Reference:** Program and Theses, Proc.26th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Baku, p.67 (1976)

**Authors:** I.F.Barchuk, G.V.Belykh, V.I.Golyshkin, A.F.Ogorodnik, M.M.Tuchinsky

**Title:** Gamma-Rays in Reactions  $^{90}, ^{92}, ^{94}, ^{96}\text{Zr}(n,\gamma)^{91}, ^{93}, ^{95}, ^{97}\text{Zr}$  on Thermal Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}, ^{92}, ^{94}, ^{96}\text{Zr}(n,\gamma)$ ,E=thermal; measured  $E\gamma, I\gamma$ .  $^{91}, ^{93}, ^{95}, ^{97}\text{Zr}$  deduced transitions. Enriched targets. Ge(Li) detectors.

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**Keynumber:** 1975BO17

**Reference:** Nucl.Phys. A246, 1 (1975)

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

**Title:** Valence Component in the Neutron Capture Cross Section of  $^{90}\text{Zr}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{90}\text{Zr}(n,\gamma)$ ,E=3-200 keV; measured  $\sigma(E, E\gamma)$ .  $^{91}\text{Zr}$

deduced resonances, resonance parameters, correlation coefficient, valence component.  ${}^6\text{Li}(n,\alpha)$  monitor, enriched target.

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**Keynumber:** 1975ALZW

**Coden:** JOUR BAPSA 20 150 EB16

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{27}\text{Al}$ ,  ${}^{28}\text{Si}$ ,  ${}^{40}\text{Ca}$ ,  ${}^{48}\text{Ti}$ ,  ${}^{52}\text{Cr}$ ,  ${}^{90}\text{Zr}$ ,  ${}^{138}\text{Ba}(n,\gamma)$ ,  $E > 2.5$  keV; measured  $\sigma(E\gamma)$ .

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**Keynumber:** 1974TO01

**Reference:** Phys.Rev. C9, 346 (1974)

**Authors:** R.E.Toohy, H.E.Jackson

**Title:** Valence Component in the Threshold Photoneutron Spectrum of  ${}^{91}\text{Zr}$

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{90}\text{Zr}(n,\gamma)$ ,  $E=5-225$  keV;  ${}^{91}\text{Zr}(\gamma,n)$ ,  $E=9$  MeV; measured  $\sigma(E;E_n)$ .  ${}^{91}\text{Zr}$  resonances deduced level-width.

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**Keynumber:** 1974ARZE

**Coden:** REPT USNDC-11 P151

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{89}\text{Y}$ ,  ${}^{90}\text{Zr}$ ,  ${}^{165}\text{Ho}$ ,  ${}^{207}\text{Pb}$ ,  ${}^{238}\text{U}(n,\gamma)$ ,  $E=14$  MeV; measured  $\sigma(E\gamma,\theta)$ .

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**Keynumber:** 1973SLZS

**Coden:** JOUR BAPSA 18 1402 CE6

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{90}\text{Zr}(n,\gamma)$ ; measured  $E\gamma, I\gamma$ .  ${}^{91}\text{Zr}$  deduced resonances.

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**Keynumber:** 1972GR23

**Reference:** Yad.Fiz. 15, 625 (1972); Sov.J.Nucl.Phys. 15, 347 (1972)

**Authors:** L.V.Groshev, L.I.Govor, A.M.Demidov

**Title:**  $\text{Sr}^{87}$  and  $\text{Zr}^{93}$  Fluorescence after the Capture of Thermal Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  ${}^{86}\text{Sr}$ ,  ${}^{90}$ ,  ${}^{92}\text{Zr}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma, I\gamma$ ; deduced  $Q$ .  ${}^{87}\text{Sr}$ ,  ${}^{91}$ ,  ${}^{93}\text{Zr}$  deduced levels.  ${}^{87}\text{Sr}$ ,  ${}^{93}\text{Zr}$  deduced cross-over transitions.