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**29 reference(s) found :**

**Keynumber:** 1988SI11

**Reference:** Can.J.Phys. 66, 330 (1988)

**Authors:** R.K.Y.Singh, M.A.Ansari, R.P.Gautam, I.A.Rizvi, S.Kailas

**Title:** Radiative Capture of Fast Neutrons in  $^{160}\text{Gd}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{160}\text{Gd}(n,\gamma)$ ,E=0.46-3.05 MeV; measured  $E\gamma, I\gamma, \sigma$  following capture.

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**Keynumber:** 1987KO48

**Reference:** At.Energ. 63, 358 (1987); Sov.At.Energy 63, 871 (1987)

**Authors:** A.E.Konyaev, V.F.Kositsyn, A.B.Medvedev, V.S.Rudenko

**Title:** Gadolinium-Neutron-Activation Determination with a Pu-Be Source

**Keyword abstract:** NUCLEAR REACTIONS  $^{160}\text{Gd}(n,\gamma)$ ,E=Pu-Be source; measured  $\gamma$ -absorption coefficient vs Gd content.

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**Keynumber:** 1986VO03

**Reference:** Nucl.Sci.Eng. 93, 43 (1986); Corrigendum Nucl.Sci.Eng. 96 343 (1987)

**Authors:** J.Voignier, S.Joly, G.Grenier

**Title:** Capture Cross Sections and Gamma-Ray Spectra from the Interaction of 0.5- to 3.0-MeV Neutrons with Nuclei in the Mass Range  $A = 63$  to 209

**Keyword abstract:** NUCLEAR REACTIONS Cu,  $^{89}\text{Y}$ ,Zr,  $^{93}\text{Nb}$ ,La,Gd,  $^{159}\text{Tb}$ ,  $^{181}\text{Ta}$ ,Re,Pt,Tl,  $^{209}\text{Bi}$ ,  $^{63, 65}\text{Cu}$ ,  $^{155, 156, 157, 158, 160}\text{Gd}$ ,  $^{182, 183, 184, 186}\text{W}$ ,  $^{203, 205}\text{Tl}(n,\gamma)$ ,E=0.5-3 MeV; measured absolute  $\sigma(E)$ ; deduced capture  $\gamma$ -multiplicity.

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**Keynumber:** 1986SA14

**Reference:** Ann.Nucl.Energy 13, 287 (1986)

**Authors:** H.S.Sahota, V.K.Mittal, N.P.S.Sidhu

**Title:** Neutron Capture Cross-Sections by Comparative  $\gamma$ -Activation

**Keyword abstract:** NUCLEAR REACTIONS  $^{103}\text{Rh}$ ,  $^{115}\text{In}$ ,  $^{160}\text{Gd}$ ,  $^{154}\text{Sm}$ ,  $^{51}\text{V}(n,\gamma)$ ,E=1.07-2.85 MeV; analyzed capture  $\sigma$  data; deduced revised values.

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**Keynumber:** 1984AN07

**Reference:** Ann.Nucl.Energy 11, 173 (1984)

**Authors:** M.A.Ansari, R.K.Y.Singh, M.L.Seegal, V.K.Mittal, D.K.Avasthi, I.M.Govil

**Title:** Radiative Capture Cross-Sections of Isotopes of Gd,Sm and V between 1 and 3 MeV

**Keyword abstract:** NUCLEAR REACTIONS  $^{160}\text{Gd}$ ,  $^{154}\text{Sm}$ ,  $^{51}\text{V}(n,\gamma)$ ,E=1-3 MeV; measured capture  $\sigma(E)$  relative to  $^{127}\text{I}(n,\gamma)$  reaction  $\sigma$ . Statistical model analysis.

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**Keynumber:** 1981VOZW

**Reference:** CEA-R-5089 (1981)

**Authors:** J.Voignier, S.Joly, G.Grenier

**Title:** Neutron Capture Cross Section Measurements of

Rubidium, Yttrium, Niobium, Gadolinium, Tungsten, Platinum and Thallium between 0.5 and 3.0 MeV

**Keyword abstract:** NUCLEAR REACTIONS Rb, Y, Nb, Gd, W, Pt, Tl,  $^{155, 156, 157, 158, 160}\text{Gd}$ ,  $^{182, 183, 184, 186}\text{W}$ ,  $^{203, 205}\text{Tl}(n,\gamma)$ ,E=0.5-3 MeV; measured absolute  $\sigma$ . Integrated spectrum method.

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**Keynumber:** 1981VOZU

**Coden:** REPT NEANDC(E)-210-L,Voignier

**Keyword abstract:** NUCLEAR REACTIONS Rb,Y,Nb,Gd,W,Pt,Tl, <sup>155</sup>, <sup>156</sup>, <sup>157</sup>, <sup>158</sup>, <sup>160</sup>Gd, <sup>182</sup>, <sup>183</sup>, <sup>184</sup>, <sup>186</sup>W, <sup>203</sup>, <sup>205</sup>Tl(n,γ),E=0.5-3 MeV; measured absolute σ(capture) vs E. Integrated spectrum method.

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**Keynumber:** 1981GRZY

**Reference:** CEA-N-2195 (1981)

**Authors:** G.Grenier, J.Voignier, S.Joly

**Title:** Capture Cross-Section Measurements for Different Elements at Neutron Energies between 0.5 and 3.0 MeV

**Keyword abstract:** NUCLEAR REACTIONS Rb, <sup>89</sup>Y, <sup>93</sup>Nb,Gd,W,Pt,Tl, <sup>155</sup>, <sup>156</sup>, <sup>157</sup>, <sup>158</sup>, <sup>160</sup>Gd, <sup>182</sup>, <sup>183</sup>, <sup>184</sup>, <sup>186</sup>W, <sup>203</sup>, <sup>205</sup>Tl(n,γ),E=0.5-3 MeV; measured σ(E). NaI scintillator,γ-detection. Statistical model.

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**Keynumber:** 1981BEZC

**Reference:** NEANDC(E)-222U, Vol.V, p.5 (1981)

**Authors:** H.Beer, F.Kappeler, G.Reffo

**Title:** Capture Cross Section Measurements on Xe, Sm, Eu and Gd-Isotopes with the Activation Method

**Keyword abstract:** NUCLEAR REACTIONS <sup>124</sup>, <sup>132</sup>, <sup>134</sup>Xe, <sup>152</sup>Sm, <sup>151</sup>Eu, <sup>152</sup>, <sup>158</sup>, <sup>160</sup>Gd(n,γ),E=25 keV; measured σ(capture). Activation technique. <sup>197</sup>Au standard.

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**Keynumber:** 1979GRZO

**Reference:** Bull.Am.Phys.Soc. 24, No.7, 871, CC5 (1979)

**Authors:** G.Grenier, J.P.Delaroche, S.Joly, Ch.Lagrange, J.Voignier

**Title:** Neutron Capture Cross Sections of Y,Nb,Gd,W and Au between 0.5 MeV and 3.0 MeV

**Keyword abstract:** NUCLEAR REACTIONS Y,Nb,Gd,W, <sup>155</sup>, <sup>156</sup>, <sup>157</sup>, <sup>158</sup>, <sup>160</sup>Gd, <sup>182</sup>, <sup>183</sup>, <sup>184</sup>, <sup>186</sup>W,Au(n,γ),E=0.5 MeV-3.0 MeV; measured σ. Statistical model calculations.

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**Keynumber:** 1979AG02

**Reference:** J.Phys.Soc.Jpn. 46, 1 (1979)

**Authors:** H.M.Agrawal, M.L.Seegal

**Title:** Statistical Theory Calculations of Neutron-Capture Cross-Sections at 24 keV

**Keyword abstract:** NUCLEAR REACTIONS <sup>45</sup>Sc, <sup>55</sup>Mn, <sup>63</sup>, <sup>65</sup>Cu, <sup>69</sup>, <sup>71</sup>Ga, <sup>75</sup>As, <sup>79</sup>, <sup>81</sup>Br, <sup>80</sup>Se, <sup>85</sup>, <sup>87</sup>Rb, <sup>89</sup>Y, <sup>93</sup>Nb, <sup>96</sup>Zr, <sup>98</sup>, <sup>100</sup>Mo, <sup>107</sup>, <sup>109</sup>Ag, <sup>108</sup>Pd, <sup>114</sup>Cd, <sup>115</sup>In, <sup>127</sup>I, <sup>133</sup>Cs, <sup>138</sup>Ba, <sup>139</sup>La, <sup>140</sup>, <sup>142</sup>Ce, <sup>141</sup>Pr, <sup>152</sup>, <sup>154</sup>Sm, <sup>158</sup>, <sup>160</sup>Gd, <sup>164</sup>Dy, <sup>165</sup>Ho, <sup>170</sup>Er, <sup>175</sup>Lu, <sup>180</sup>Hf, <sup>181</sup>Ta, <sup>184</sup>, <sup>186</sup>W, <sup>185</sup>, <sup>187</sup>Re, <sup>197</sup>Au, <sup>202</sup>Hg, <sup>208</sup>Pb, <sup>209</sup>Bi, <sup>232</sup>Th(n,γ),E=24 keV; calculated σ; deduced ratio of average Γγ to average level spacing. Margolis formula of statistical theory, low energy resonance parameters.

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**Keynumber:** 1978KO04

**Reference:** Yad.Fiz. 27, 10 (1978); Sov.J.Nucl.Phys. 27, 5 (1978)

**Authors:** V.N.Kononov, B.D.Yurlov, E.D.Poletaev, V.M.Timokhov

**Title:** Fast-Neutron Capture Cross Sections for Even-Even Isotopes of Neodymium, Samarium, Gadolinium, and Erbium

**Keyword abstract:** NUCLEAR REACTIONS <sup>142</sup>, <sup>144</sup>, <sup>146</sup>, <sup>148</sup>, <sup>150</sup>Nd, <sup>144</sup>, <sup>148</sup>, <sup>150</sup>, <sup>152</sup>, <sup>154</sup>Sm, <sup>156</sup>, <sup>158</sup>, <sup>160</sup>Gd, <sup>166</sup>, <sup>168</sup>, <sup>170</sup>Er(n,γ),E=5-350 keV; measured σ(E).

**Keynumber:** 1977GRZL

**Reference:** Bull.Amer.Phys.Soc. 22, No.8, 1032, ED9 (1977)

**Authors:** R.C.Greenwood, R.E.Chrien

**Title:** Distribution of Low-Spin States in Odd-Gd Isotopes Observed from 2- and 24-keV Neutron Capture Reactions

**Keyword abstract:** NUCLEAR REACTIONS  $^{154, 156, 158, 160}\text{Gd}(n,\gamma)$ , E=2,24 keV; measured  $\gamma$ -spectra.  $^{155, 157, 159, 161}\text{Gd}$  deduced level distribution.

**Keynumber:** 1975CHZT

**Coden:** REPT ERDA/NDC-2, p31, Chrien

**Keyword abstract:** NUCLEAR REACTIONS  $^{162, 164}\text{Dy}$ ,  $^{152}\text{Sm}$ ,  $^{156}\text{Gd}$ ,  $^{170}\text{Yb}$ ,  $^{158, 160}\text{Gd}$ ,  $^{164, 166, 168, 170}\text{Er}(n,\gamma)$ , E=0.0253 eV; measured  $\sigma(E\gamma)$ .  $^{163, 165}\text{Dy}$ ,  $^{153}\text{Sm}$ ,  $^{151}\text{Gd}$ ,  $^{171}\text{Yb}$  resonances deduced J, $\pi$ .

**Keynumber:** 1974SI11

**Reference:** Ann.Phys.(New York) 83, 355 (1974)

**Authors:** K.Siddappa, M.S.Murty, J.R.Rao

**Title:** Neutron Strength Functions of Nuclei in the Deformed Region

**Keyword abstract:** NUCLEAR REACTIONS  $^{138}\text{Ba}$ ,  $^{140, 142}\text{Ce}$ ,  $^{146, 148}\text{Nd}$ ,  $^{152, 154}\text{Sm}$ ,  $^{158, 160}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{169}\text{Tm}$ ,  $^{170}\text{Er}$ ,  $^{174, 176}\text{Yb}$ ,  $^{180}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{186}\text{W}$ ,  $^{190, 192}\text{Os}$ ,  $^{197}\text{Au}$ ,  $^{202}\text{Hg}(n,\gamma)$ , E=18-28 keV; measured  $\sigma$ ; deduced p-wave strength functions.

**Reference:** Can.J.Phys. 52, 1160 (1974)

**Authors:** B.Singh, M.W.Johns

**Title:** Spin Determinations in Low Lying States of  $^{151}\text{Sm}$

**Keyword abstract:** RADIOACTIVITY  $^{151}\text{Pm}$ ; measured  $\gamma\gamma(\theta)$ , I $\gamma$ .  $^{151}\text{Sm}$  levels deduced J, $\pi$ , $\gamma$ -mixing, $\lambda$ .

**Keynumber:** 1974SH03

**Reference:** Yad.Fiz. 19, 5 (1974); Sov.J.Nucl.Phys. 19, 2 (1974)

**Authors:** V.S.Shorin, V.N.Kononov, E.D.Poletaev

**Title:** Neutron Radiative-Capture Cross Sections in the Energy Region 5-70 keV For Gd and Er Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{154, 155, 156, 157, 158, 160}\text{Gd}(n,\gamma)$ ,  $^{166, 167, 168, 170}\text{Er}(n,\gamma)$ , E=5-70 keV; measured  $\sigma(E)$ .

**Keynumber:** 1974RA23

**Reference:** Phys.Rev. C10, 1904 (1974)

**Authors:** F.Rahn, H.S.Camarda, G.Hacken, W.W.Havens,Jr., H.I.Liou, J.Rainwater

**Title:** Neutron Resonance Spectroscopy:  $^{154, 158, 160}\text{Gd}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{154, 158, 160}\text{Gd}(n,n)$ ,  $(n,\gamma)$ , E=0-10 keV; measured  $\sigma(E)$ .  $^{155, 159, 161}\text{Gd}$  resonances deduced g n-width, $\gamma$ -width.

**Keynumber:** 1973SI45

**Reference:** Nuovo Cim. 18A, 48 (1973)

**Authors:** K.Siddappa, M.Sriramachandra Murty, J.Rama Rao

**Title:** Neutron Activation Cross-Sections in Rare Earths and Heavier Nuclei

**Keyword abstract:** NUCLEAR REACTIONS  $^{138}\text{Ba}$ ,  $^{140, 142}\text{Ce}$ ,  $^{146, 148}\text{Nd}$ ,  $^{160}\text{Gd}$ ,  $^{165}\text{Ho}$ ,  $^{180}\text{Hf}$ ,  $^{181}\text{Ta}$ ,  $^{190}\text{Os}$ ,  $^{197}\text{Au}$ ,  $^{202}\text{Hg}(n,\gamma)$ , E=23 keV; measured  $\sigma$ .

**Keynumber:** 1972TH03

**Reference:** J.Phys.(London) A5, 468 (1972)

**Authors:** B.V.Thirumala Rao, J.Rama Rao, E.Kondaiah

**Title:** Neutron Capture Cross Sections at 25 keV

**Keyword abstract:** NUCLEAR REACTIONS  $^{84}\text{Kr}$ ,  $^{110}\text{Cd}$ ,  $^{115}\text{In}$ ,  $^{130}\text{Te}$ ,  $^{146}$ ,  $^{148}$ ,  $^{150}\text{Nd}$ ,  $^{158}\text{Gd}$ ,  $^{160}\text{Gd}$  (n, $\gamma$ ),E=25 keV; measured  $\sigma$ .

**Keynumber:** 1972RA26

**Reference:** Nucl.Sci.Eng. 48, 219 (1972)

**Authors:** F.Rahn, H.S.Camarda, G.Hacken, W.W.Havens,Jr., H.I.Liou, J.Rainwater, M.Slagowitz, S.Wynchank

**Title:** Values of the Neutron Resonance Capture Integral for Some Rare Earth Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}\text{Sm}$ ,  $^{153}\text{Eu}$ ,  $^{154}$ ,  $^{158}$ ,  $^{160}\text{Gd}$ ,  $^{166}$ ,  $^{167}$ ,  $^{168}$ ,  $^{170}\text{Er}$ ,  $^{168}$ ,  $^{170}$ ,  $^{171}$ ,  $^{172}$ ,  $^{174}$ ,  $^{176}\text{Yb}$ ,  $^{175}\text{Lu}$ ,  $^{182}$ ,  $^{183}$ ,  $^{184}$ ,  $^{186}\text{W}$ (n, $\gamma$ ); calculated resonance integrals.

**Keynumber:** 1972KA21

**Reference:** Phys.Lett. 39B, 625 (1972)

**Authors:** J.Kantele, M.Valkonen

**Title:** Mass Number Dependence of Activation Capture Cross Sections for 14 MeV Neutrons

**Keyword abstract:** NUCLEAR REACTIONS  $^{51}\text{V}$ ,  $^{81}\text{Br}$ ,  $^{103}\text{Rh}$ ,  $^{127}\text{I}$ ,  $^{154}\text{Sm}$ ,  $^{160}\text{Gd}$ ,  $^{165}\text{Ho}$ ,  $^{170}\text{Er}$  (n, $\gamma$ ),E=14.5 MeV; measured activation  $\sigma$ .

**Keynumber:** 1972FA20

**Reference:** Nucl.Sci.Eng. 49, 317 (1972)

**Authors:** L.R.Fawcett,Jr., A.K.Furr, J.G.Lindsay

**Title:** Neutron Capture Cross Sections in the keV Region for  $^{154}\text{Sm}$ ,  $^{160}\text{Gd}$ ,  $^{164}\text{Dy}$ , and  $^{165}\text{Ho}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Sm}$ ,  $^{160}\text{Gd}$ ,  $^{164}\text{Dy}$ ,  $^{165}\text{Ho}$ (n, $\gamma$ ),E=5-160 keV; measured  $\sigma(E)$ .  $^{155}\text{Sm}$ ,  $^{161}\text{Gd}$ ,  $^{165}\text{Dy}$ ,  $^{166}\text{Ho}$  deduced resonance parameters.

**Keynumber:** 1972BOYR

**Coden:** REPT ISN Grenoble 1972 Annual P138

**Keyword abstract:** NUCLEAR REACTIONS  $^{160}\text{Gd}$ ,  $^{238}\text{U}$ (n, $\gamma$ ); calculated  $\sigma$ .

**Keynumber:** 1972BO23

**Reference:** Nucl.Phys. A189, 334 (1972)

**Authors:** J.P.Boisson, S.Jang

**Title:** Direct and Semi-Direct Radiative Capture of Nucleons in Deformed Nuclei

**Keyword abstract:** NUCLEAR REACTIONS  $^{160}\text{Gd}$ ,  $^{159}\text{Tb}$ ,  $^{208}\text{Pb}$ ,  $^{238}\text{U}$ (n, $\gamma$ ),E=14 MeV; calculated  $\sigma(E\gamma)$ .

**Keynumber:** 1971LIZT

**Coden:** THESIS, Virginia Polytechnic Inst,DABBB 32B 2932,J G Lindsay,12/16/71

**Keyword abstract:** NUCLEAR REACTIONS  $^{107}$ ,  $^{109}\text{Ag}$ ,  $^{197}\text{Au}$ ,  $^{160}\text{Gd}$ (n,X), (n, $\gamma$ ),E <100 keV; measured  $\sigma(E)$ .  $^{108}$ ,  $^{110}\text{Ag}$ ,  $^{198}\text{Au}$ ,  $^{161}\text{Gd}$  deduced resonances, strength functions.

**Keynumber:** 1971HAXR

**Coden:** REPT NCSAC-42,P61,G Hacken,5/19/72

**Keyword abstract:** NUCLEAR REACTIONS  $^{152}$ ,  $^{154}\text{Sm}$ ,  $^{151}$ ,  $^{153}\text{Eu}$ ,  $^{154}$ ,  $^{158}$ ,  $^{160}\text{Gd}$ ,  $^{166}$ ,  $^{167}$ ,  $^{168}$ ,

$^{170}\text{Er}$ ,  $^{168}$ ,  $^{170}$ ,  $^{171}$ ,  $^{172}$ ,  $^{174}$ ,  $^{176}\text{Yb}$ ,  $^{175}\text{Lu}$ ,  $^{182}$ ,  $^{183}$ ,  $^{184}$ ,  $^{186}\text{W}(n,\gamma)$ , measured capture resonance integrals.

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**Keynumber:** 1971GR42

**Reference:** Izv.Akad.Nauk SSSR, Ser.Fiz. 35, 1644 (1971); Bull.Acad.Sci.USSR, Phys.Ser. 35, 1497 (1972)

**Authors:** L.V.Groshev, A.M.Demidov, L.L.Sokolovskii

**Title:** Radiations from Even-Odd Samarium and Gadolinium Nuclei Following Thermal-Neutron Capture

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Sm}$ ,  $^{156}$ ,  $^{158}$ ,  $^{160}\text{Gd}(n,\gamma)$ ,  $E=\text{thermal}$ ; measured  $E\gamma$ ,  $I\gamma$ ,  $Q$ .  $^{155}\text{Sm}$ ,  $^{157}$ ,  $^{159}$ ,  $^{161}\text{Gd}$  deduced levels.

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**Keynumber:** 1971FAZS

**Coden:** CONF SESAPS 38th Mtg,P8,L R Fawcett,11/15/71

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Sm}$ ,  $^{160}\text{Gd}$ ,  $^{164}\text{Dy}$ ,  $^{165}\text{Ho}(n,\gamma)$ ,  $E=5-160$  keV; measured  $\sigma(E;E\gamma)$ .  $^{155}\text{Sm}$ ,  $^{161}\text{Gd}$ ,  $^{165}\text{Dy}$ ,  $^{166}\text{Ho}$  deduced strength functions.

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**Keynumber:** 1971FAZR

**Coden:** THESIS, Virginia Polytechnic Inst,L R Fawcett,DABBB 32B 2929,12/16/71

**Keyword abstract:** NUCLEAR REACTIONS  $^{154}\text{Sm}$ ,  $^{160}\text{Gd}$ ,  $^{164}\text{Dy}$ ,  $^{165}\text{Ho}(n,\gamma)$ ,  $E=5-160$  keV; measured  $\sigma(E;E\gamma)$ .  $^{155}\text{Sm}$ ,  $^{161}\text{Gd}$ ,  $^{165}\text{Dy}$ ,  $^{166}\text{Ho}$  deduced resonances,strength functions.