Visit the Isotope Explorer home page!

15 reference(s) found :

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}Y, ^{32}, ^{33}S, ^{35}Cl(n,p), ^{116}Sn, ^{151}Eu, ^{152}Gd (n,γ),E=reactor; measured yields; deduced irradiation parameters for isotope production in fast flux reactor.

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

Keynumber: 1996SPZZ
Reference: BLG 703 (1996), edited by A.Spits and P.H.M.Van Assche
Authors: A.Spits, P.H.M.Van Assche, H.G.Borner, W.F.Davidson, K.Schreckenbach, G.G.Colvin, R.C.Greenwood, C.W.Reich, P.O.Lipas, J.Suhonen, P.Sinkko, A.Backlin
Title: Spectroscopy of the ^{153}Gd and ^{154}Gd Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{153}, ^{152}Gd(n,γ),E=thermal; measured Eγ,Iγ,I(ce); deduced capture σ(E) for ^{153}Gd. ^{153}, ^{154}Gd deduced levels,J,π,γ-multipolarity,B(λ),neutron binding energies. Double neutron capture on ^{152}Gd.

Keynumber: **1995WI25**
Reference: Phys.Rev. C52, 2762 (1995)
Authors: K.Wisshak, F.Voss, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, M.Uhl, G.Reffo
Title: Stellar Neutron Capture Cross Sections of the Gd Isotopes
Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{154}, ^{155}, ^{156}, ^{157}, ^{158}Gd(n,γ),E=3-225 KeV; measured σ(E); deduced Maxwellian averaged cross section for kT=10 to 100 keV.

Keynumber: 1992SPZZ
Reference: Priv.Comm. (1992)
Authors: A.M.J.Spits, P.H.M.Van Assche, H.G.Borner, W.F.Davidson, D.D.Warner, K.Schreckenbach, G.G.Colvin, R.C.Greenwood, C.W.Reich, P.O.Lipas, J.Suhonen, P.Sinkko, A.Backlin
Title: Levels in ^{153}Gd and ^{154}Gd Studied by Radiative Neutron Capture in ^{152}Gd and ^{153}Gd
Keyword abstract: NUCLEAR REACTIONS ^{152}Gd(n,γ),E=thermal,2 keV; measured Eγ,Iγ,I(ce); deduced Q,σ. ^{153}, ^{154}Gd deduced levels,γ-multipolarity,δ,J,π,X(E0/E2). Curved crystal,pair,magnetic electron spectrometers,enriched targets,single,double neutron capture on ^{152}Gd. Model comparisons.

Keynumber: 1988BE32

Reference: Astrophys.J. 331, 1047 (1988)
Authors: H.Beer, R.L.Macklin
Title: The ^{151}Sm Branching; A probe for the irradiation time scale of the s-process
Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{154}, ^{155}, ^{157}Gd(n,γ),E=3-500 keV; measured σ(E); deduced σ,Maxwellian averaged <s>s-process time scale.

Keynumber: 1987MA13
Reference: Nucl.Sci.Eng. 95, 304 (1987)
Authors: R.L.Macklin
Title: Neutron Capture Resonances of ^{152}Gd and ^{154}Gd
Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{154}Gd(n,γ),E ≤ 2.76 keV; measured capture σ(E). ^{153}, ^{155}Gd deduced resonances,Γ,Γn,Γγ,average spacing,capture integral. Enriched targets,tof.

Keynumber: 1986BEZD
Reference: Program and Theses, Proc.36th,Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.306 (1986)
Authors: F.Bechvarzh, M.E.Montero-Cabrera, S.A.Telezhnikov, Huynh Thuong Hiep
Title:
Keyword abstract: NUCLEAR REACTIONS ^{147}, ^{149}Sm, ^{152}, ^{154}, ^{156}Gd(n,γ),E=resonance; measured γ-spectra. ^{148}, ^{150}Sm, ^{153}, ^{155}, ^{157}Gd deduced radiative strength function.

Keynumber: 1984NEZR
Reference: Proc.Conf.Neutron Physics, Kiev, Vol.3, p.143 (1984)
Authors: K.Nedvedyuk, Yu.P.Popov
Title: Determination of the Average Radiative Neutron Capture from Systematics
Keyword abstract: NUCLEAR REACTIONS ^{74}, ^{82}Se, ^{82}Kr, ^{84}Sr, ^{102}, ^{109}, ^{112}Pd, ^{104}, ^{109}, ^{115}, ^{117}, ^{118}Cd, ^{110}, ^{113}, ^{114}, ^{115}, ^{121}Sn, ^{120}, ^{127}, ^{129}, ^{131}, ^{132}Te, ^{131}, ^{132}, ^{133}Ba, ^{145}, ^{146}, ^{151}, ^{156}Sm, ^{152}, ^{154}, ^{159}Gd, ^{156}, ^{158}, ^{160}, ^{165}Dy, ^{166}, ^{168}, ^{169}, ^{175}Yb, ^{190}Os(n,γ),E=30 keV; analyzed average radiative σ dependence on neutron number,neutron binding energy; deduced σ.

Keynumber: 1981GRZZ
Reference: Priv.Comm. (1981)
Authors: R.C.Greenwood
Title: The Neutron Separation Energy for ^{153}Gd
Keyword abstract: NUCLEAR REACTIONS ^{152}Gd(n,γ),E=2 keV; measured Eγ,Iγ. ^{153}Gd deduced neutron separation energy.

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 ^{124}, ^{132}, ^{134}Xe, ^{152}Sm, ^{151}Eu, ^{152}, ^{158}, ^{160}Gd(n,γ),E=25 keV; measured σ(capture). Activation technique. ^{197}Au standard.

Keynumber: 1980BEZW
Coden: REPT JINR-P3-12516,2/1/80,Becvar
Keyword abstract: NUCLEAR REACTIONS ^{152}Gd(n,γ),E=slow-1600 eV; measured Eγ,Iγ. ^{153}Gd

deduced B(n),resonances,J,π. Statistical model.

Keynumber: 1978SPZY

Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P763,Spits

Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{153}, ^{154}Gd(n,γ),E=thermal; measured Eγ,Iγ. ^{153}Gd deduced levels,γ-branching. ^{154}, ^{155}Gd deduced levels. Dumond-type gamma diffraction spectrometer.

Keynumber: 1978SPZX

Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No77,Spits

Keyword abstract: NUCLEAR REACTIONS ^{152}, ^{153}, ^{154}Gd(n,γ),E=th; measured Eγ,Iγ. ^{153}, ^{154}, ^{155}Gd deduced levels,γ-branching.

Keynumber: 1972ST25

Reference: J.Inorg.Nucl.Chem. 34, 2699 (1972)

Authors: E.Steinnes

Title: Resonance Activation Integrals of Some Nuclides of Interest in Neutron Activation Analysis

Keyword abstract: NUCLEAR REACTIONS ^{152}Gd(n,γ),E=thermal; measured σ. ^{59}Co, ^{232}Th, ^{238}U, ^{23}Na, ^{46}Ca, ^{45}Sc, ^{58}Fe, ^{64}Zn, ^{68}Zn, ^{85}Rb, ^{84}Sr, ^{98}Mo, ^{121}Sb, ^{133}Cs, ^{130}Ba, ^{139}La, ^{140}Ce, ^{141}Pr, ^{146}Nd, ^{152}Sm, ^{152}, ^{158}Gd, ^{159}Tb, ^{165}Ho, ^{169}Tm, ^{168}Yb, ^{174}Yb, ^{180}Hf, ^{181}Ta(n,γ),E=thermal; measured activation resonance integrals.
