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23 reference(s) found :

Keynumber: 2000BE21
Reference: Acta Phys.Pol. B31, 311 (2000)
Authors: K.Bennaceur, F.Nowacki, J.Okolowicz, M.Ploszajczak
Title: Capture Reactions of Astrophysical Interest in the Shell Model Embedded in the Continuum
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E(cm) <100 keV; calculated σ. ^{208}Pb (^{8}B,p^{7}Be),E=250 MeV/nucleon; calculated σ(E). Shell model embedded in the continuum,comparisons with data.

Keynumber: 1999ZHZM
Reference: INDC(CPR)-049/L, p.76 (1999)
Authors: C.Zhou
Title: Prompt γ-Ray Data Evaluation of Thermal-Neutron Capture for A = 1 ϑ 25
Keyword abstract: NUCLEAR REACTIONS ^{1}, ^{2}H, ^{6}, ^{7}Li, ^{9}Be, ^{12}, ^{13}C, ^{14}N, ^{16}, ^{17}O, ^{19}F, ^{20}, ^{21}, ^{22}Ne, ^{23}Na, ^{24}, ^{25}Mg(n,γ),E=thermal; compiled, evaluated prompt γ-ray data.

Keynumber: 1999BE25
Reference: Nucl.Phys. A651, 289 (1999)
Authors: K.Bennaceur, F.Nowacki, J.Okolowicz, M.Ploszajczak
Title: Study of the ^{7}Be(p,γ)^{8}B and ^{7}Li(n,γ)^{8}Li Capture Reactions using the Shell Model Embedded in the Continuum
Keyword abstract: NUCLEAR REACTIONS ^{7}Be(p,γ), ^{7}Li(n,γ),E=low; calculated σ,astrophysical S-factors. Shell model,continuum coupling.

Keynumber: 1998HE35
Reference: Astrophys.J. 507, 997 (1998)
Authors: M.Heil, F.Kappeler, M.Wiescher, A.Mengoni
Title: The (n,γ) Cross Section of ^{7}Li
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E ≈ 5 meV,54 keV; measured σ. Activation technique. Astrophysical implications discussed.

Keynumber: 1997NAZZ
Reference: Proc.9th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Budapest, Hungary, October 1996, G.L.Molnar, T.Belgya, Zs.Revay, Eds., Vol.2, p.501 (1997)
Authors: Y.Nagai, T.Shima, T.Kikuchi, T.Kii, T.Kobayashi, F.Okazaki, T.Baba, K.Takaoka, S.Naito, A.Tomyo, M.Igashira, T.Ohsaki, S.Ishikawa
Title: Nuclear Astrophysics Studied by Neutron Capture Reaction of Light Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{2}H, ^{7}Li, ^{18}O(n,γ),E=10-80 keV; measured Eγ,Iγ; deduced capture σ. Astrophysical implications discussed.

Keynumber: 1997HEZW
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.1618 (1997)
Authors: M.Heil, F.Kappeler, M.Wiescher
Title: The (n,γ) Cross Section of ^{7}Li

Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E ≈ 0.005,54000 eV; measured σ. Activation technique. Comparison with other data,calculations.

Keynumber: **1997BA04**
Reference: Phys.Rev. C55, 535 (1997)
Authors: F.C.Barker
Title: Low-energy ^{7}Li(n,γ_0)^{8}Li and ^{7}Li(p,γ_0)^{8}Be Cross Sections

Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ), (p,γ),E=low; analyzed p-wave strength in σ; deduced projectile penetration factors dependence.

Keynumber: 1996SH02
Reference: Nucl.Phys. A597, 197 (1996)
Authors: N.B.Shulgina, B.V.Danilin, V.D.Efros, J.M.Bang, J.S.Vaagen, M.V.Zhukov, and the Russian-Nordic-British Theory (RNBT) Collaboration
Title: Three-Body Structure of ^{8}Li and the ^{7}Li(n,γ)^{8}Li Reaction
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=25 keV; calculated σ. ^{3}H(α,α),E=3-8 MeV; calculated phase shifts vs E. Three-body cluster model.

Keyword abstract: NUCLEAR STRUCTURE ^{8}Li; calculated matter density,cluster component separation rms radii. Three-body cluster model.

Keynumber: **1996BL10**
Reference: Phys.Rev. C54, 383 (1996)
Authors: J.C.Blackmon, A.E.Champagne, J.K.Dickens, J.A.Harvey, M.A.Hofstee, S.Kopecky, D.C.Larson, D.C.Powell, S.Raman, M.S.Smith
Title: Measurement of ^{7}Li(n,γ_0)^{8}Li Cross Sections at E(n) = 1.5-1340 eV

Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=1.5-1340 eV; measured Eγ,Iγ,γ yield,absolute σ(E); deduced s-wave evidence,normalization relative to ^{10}B(n,αγ) reaction.

Keynumber: 1995BA36
Reference: Nucl.Phys. A588, 693 (1995)
Authors: F.C.Barker
Title: The Low-Energy ^{7}Be(p,γ)^{8}B Cross Section from an R-Matrix Approach
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E ≤ 1 MeV; analyzed σ(E); deduced model parameters. ^{7}Be(p,γ),E ≤ 2 MeV; analyzed astrophysical S-factor vs E. R-matrix approach.

Keynumber: 1994DE03
Reference: Nucl.Phys. A567, 341 (1994)
Authors: P.Descouvemont, D.Baye
Title: Microscopic Study of the ^{7}Li(n,γ)^{8}Li and ^{7}Be(p,γ)^{8}B Reactions in Multiconfiguration Three-Cluster Model
Keyword abstract: NUCLEAR REACTIONS,ICPND ^{7}Li(n,γ),E(cm) ≤ 0.8 MeV; calculated σ(θ) vs E. ^{7}Be(p,γ),E(cm) <3 MeV; calculated astrophysical S-factor vs E. Three-cluster generator coordinate method.

Keyword abstract: NUCLEAR STRUCTURE ^{8}Li, ^{8}B; calculated μ,quadrupole moment,nucleon width of levels,B(λ). Multi-configuration three-cluster model.

Keynumber: 1993DE30

Reference: J.Phys.(London) G19, S141 (1993)
Authors: P.Descouvemont
Title: Microscopic Models for Nuclear Reaction Rates
Keyword abstract: NUCLEAR REACTIONS,ICPND ^{7}Li(n,γ),E(cm) ≤ 0.8 MeV; calculated σ(E). ^{7}Be (p,γ),E(cm) ≤ 3 MeV; ^{12}C(α,γ),E(cm) ≤ 3 MeV; ^{8}Li(α,n),E ≤ 2 MeV; calculated astrophysical S-factor vs E. Generator coordinate method,microscopic description.

Keynumber: 1992PA29
Reference: Bull.Rus.Acad.Sci.Phys. 56, 1811 (1992)
Authors: A.A.Pasternak, D.Khongiu
Title: Dopper Effects in n + Al and n + Li Reactions at Neutron Energy of 14.9 MeV
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=14.9 MeV; ^{27}Al(n,p), (n,α), (n,np),E=14.9 MeV; measured γ-spectra,Doppler broadened line shapes,Iγ(θ). ^{26}, ^{27}Mg, ^{24}Na levels deduced $T_{1/2}$. Doppler shift reduction method.

Keynumber: 1991NAZY
Reference: Inst.Nucl.Study, Univ.Tokyo, Ann.Rept., 1990, p.55 (1991)
Authors: Y.Nagai, K.Takeda, S.Motoyama, T.Ohsaki, M.Igashira, N.Mukai, F.Uesawa, T.Ando, H.Kitazawa, T.Fukuda, S.Kubono
Title: Neutron Capture Cross Sections of ^{7}Li and ^{12}C in Primordial Nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{7}Li, ^{12}C(n,γ),E=30 keV; measured σ.

Keynumber: 1991NA19
Reference: Nucl.Instrum.Methods Phys.Res. B56/57, 492 (1991)
Authors: Y.Nagai, K.Takeda, S.Motoyama, T.Ohsaki, M.Igashira, N.Mukai, F.Uesawa, T.Ando, H.Kitazawa, T.Fukuda
Title: Neutron Capture Cross Sections of Light Nuclei in Primordial Nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{7}Li, ^{12}C(n,γ),E=30 keV; measured radiative capture Eγ,Iγ; deduced intermediate mass nuclei primordial nucleosynthesis process role.

Keynumber: 1991NA16
Reference: Astrophys.J. 381, 444 (1991)
Authors: Y.Nagai, M.Igashira, N.Mukai, T.Ohsaki, F.Uesawa, K.Takeda, T.Ando, H.Kitazawa, S.Kubono, T.Fukuda
Title: Capture Rate of the ^{7}Li(n,γ)^{8}Li Reaction by Prompt Gamma-Ray Detection
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=30 keV; measured Eγ,Iγ,σ; deduced reaction rate.

Keynumber: **1991LY01**
Reference: Phys.Rev. C44, 764 (1991)
Authors: J.E.Lynn, E.T.Jurney, S.Raman
Title: Direct and Valence Neutron Capture by ^{7}Li
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=thermal; measured Eγ,Iγ,capture σ. Direct,valence capture.

Keynumber: 1989WIZV
Reference: Bull.Am.Phys.Soc. 34, No.4, 1191, E10 1 (1989)
Authors: M.Wiescher, R.Steininger, F.Kappeler

Title: ^{7}Li(n,γ)^{8}Li - Trigger Reaction to a Primordial r-Process
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=25-420 keV; measured σ; deduced reaction rate,r-process features.

Keynumber: 1989WI16
Reference: Astrophys.J. 344, 464 (1989)
Authors: M.Wiescher, R.Steininger, F.Kappeler
Title: ^{7}Li(n,γ)^{8}Li - Trigger Reaction to a Primordial r-Process (Question)
Keyword abstract: NUCLEAR REACTIONS ^{7}Li(n,γ),E=25-420 keV; measured capture σ(E); deduced reaction rate,primordial r-process consequences. Activation techniques.

Keynumber: 1988DE38
Reference: Nucl.Phys. A487, 420 (1988)
Authors: P.Descouvemont, D.Baye
Title: The ^{7}Be(p,γ)^{8}B Reaction in a Microscopic Three-Cluster Model
Keyword abstract: NUCLEAR REACTIONS,ICPND ^{7}Li(n,γ),E(cm) ≈ 0-0.75 MeV; calculated capture σ(E). ^{7}Be(p,γ),E(cm) ≈ 0.1-2.5 MeV; calculated astrophysical S-factor vs E. Microscopic three-cluster model,generator coordinate method.
Keyword abstract: NUCLEAR STRUCTURE ^{8}B, ^{8}Li; calculated levels,μ,B(M1). Generator coordinate method,three-cluster model.

Keynumber: 1973JUZU
Coden: REPT EANDC(US)-186'U' P109
Keyword abstract: NUCLEAR REACTIONS ^{6}, ^{7}Li(n,γ); measured σ(Eγ). ^{7}, ^{8}Li deduced transitions.

Keynumber: 1973JUZT
Coden: REPT LA-UR-73-1700 P8
Keyword abstract: NUCLEAR REACTIONS ^{6}, ^{7}Li(n,γ),E=thermal; measured σ(Eγ). ^{7}Li deduced γ-branching.

Keynumber: 1967RA24
Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba Press, p.278(1967)
Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai
Title: Determination of (n,γ) Reaction Q Values from Capture γ-Ray Spectra
Keyword abstract: NUCLEAR REACTIONS ^{6}Li, ^{7}Li, ^{9}Be, ^{10}B, ^{12}C, ^{14}N, ^{19}F, ^{23}Na, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{27}Al, ^{28}Si, ^{31}P, ^{32}S, ^{35}Cl, ^{40}Ca, ^{45}Sc, ^{48}Ti, ^{51}V, ^{55}Mn, ^{54}Fe, ^{56}Fe, ^{59}Co, ^{58}Ni, ^{60}Ni, ^{63}Cu, ^{65}Cu, ^{66}Zn, ^{67}Zn, ^{73}Ge, ^{76}Se, ^{85}Rb, ^{87}Rb, ^{89}Y, ^{93}Nb, ^{103}Rh, ^{113}Cd, ^{123}Te, ^{133}Cs, ^{139}La, ^{141}Pr, ^{149}Sm, ^{153}Eu, ^{157}Gd, ^{159}Tb, ^{165}Ho, ^{167}Er, ^{169}Tm, ^{181}Ta, ^{182}W, ^{195}Pt, ^{197}Au, ^{199}Hg, ^{203}Tl, ^{207}Pb(n,γ), E = thermal; measured Eγ; deduced Q. Natural targets.
