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12 reference(s) found :

Keynumber: 2000VE09

Reference: J.Radioanal.Nucl.Chem. 246, 161 (2000)

Authors: M.L.Verheijke

Title: On the Relation between the Effective Resonance Energy and the Infinite Dilution Resonance Integral for (n, γ) Reactions

Keyword abstract: NUCLEAR REACTIONS ^{36}S , ^{46}Ca , ^{138}Ce , ^{184}Os , $^{191}\text{Ir}(n,\gamma)$, $E < 2$ MeV; calculated effective resonance energies. Relationship between resonance energy and infinite dilution resonance integral discussed.

Keynumber: [1999MO16](#)

Reference: Phys.Rev. C59, 3410 (1999)

Authors: P.Mohr, P.V.Sedyshev, H.Beer, W.Stadler, H.Oberhummer, Yu.P.Popov, W.Rochow

Title: Neutron Capture of ^{46}Ca at Thermonuclear Energies

Keyword abstract: NUCLEAR REACTIONS $^{46}\text{Ca}(n,\gamma)$, $E \approx$ thermal-200 keV; measured σ ; deduced s-wave resonance role. Activation technique. Astrophysical implications discussed.

Keynumber: 1999HO26

Reference: Astrophys.J. 521, 735 (1999)

Authors: R.D.Hoffman, S.E.Woosley, T.A.Weaver, T.Rauscher, F.-K.Thielemann

Title: The Reaction Rate Sensitivity of Nucleosynthesis in Type II Supernovae

Keyword abstract: NUCLEAR REACTIONS ^{32}S , ^{39}K , ^{45}Ca , ^{46}Ca , ^{50}V , $^{69}\text{Zn}(n,\gamma)$, ^{33}S , ^{43}Ca , $^{44}\text{Sc}(p,\gamma)$, ^{33}S , ^{40}K , $^{45}\text{Ti}(n,\alpha)$, ^{40}K , $^{45}\text{Ti}(n,p)$, $^{44}\text{Ti}(\alpha,p)$, ^{24}Mg , ^{28}Si , ^{32}S , ^{36}Ar , ^{40}Ca , $^{44}\text{Ti}(\alpha,\gamma)$, E not given; analyzed stellar reactions rates. Several libraries compared.

Keynumber: 1998MOZT

Reference: Proc.Intern.Symposium on Nuclear Astrophysics, Nuclei in the Cosmos V, Volos, Greece, July 6-11, 1998, N.Prantzos, S.Harissopulos, Eds., Editions Frontieres, Paris, p.192 (1998)

Authors: P.Mohr, H.Beer, H.Oberhummer, P.V.Sedyshev, Y.P.Popov, W.Rochow

Title: Neutron Capture of ^{46}Ca , ^{48}Ca , and ^{50}Ti at Stellar Energies

Keyword abstract: NUCLEAR REACTIONS ^{46}Ca , ^{48}Ca , $^{50}\text{Ti}(n,\gamma)$, $E < 200$ keV; measured capture σ ; deduced direct capture, resonance contributions.

Keynumber: 1995MO40

Reference: Aust.J.Phys. 48, 125 (1995)

Authors: A.J.Morton, D.G.Sargood

Title: Thermonuclear Reactions Rates for Reactions Leading to $N = 28$ Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{44}K , ^{46}K , ^{46}Ca , ^{47}Ca , ^{48}Ca , ^{45}Sc , ^{47}Sc , ^{48}Sc , ^{49}Sc , ^{50}Sc , ^{46}Ti , ^{47}Ti , ^{48}Ti , ^{49}Ti , ^{50}Ti , ^{47}V , ^{48}V , ^{49}V , ^{50}V , ^{51}V , ^{48}Cr , ^{49}Cr , ^{50}Cr , ^{51}Cr , ^{52}Cr , ^{53}Mn , ^{52}Fe , ^{53}Fe , ^{54}Fe , $^{55}\text{Co}(n,\gamma)$, (n,p), (n, α), (p, γ), (p,n), (p, α), (α,γ), (α,n), (α,p), E not given; $^{56}\text{Ni}(n,\gamma)$, (n,p), (n, α), (α,γ), (α,n), (α,p), E not given; ^{46}Ar , ^{45}K , ^{47}K (p, γ), (p,n), (p, α), (α,γ), (α,n), (α,p), E not given; calculated stellar reaction rates vs temperature. Statistical model calculations, optical-model potential.

Keynumber: [1987KA28](#)

Reference: Phys.Rev. C36, 533 (1987)

Authors: S.Kahane, J.E.Lynn, S.Raman

Title: Analysis of Primary Electric Dipole Gamma Rays from Slow-Neutron Capture by Ca Isotopes

Keyword abstract: NUCLEAR REACTIONS $^{40, 42, 44, 46, 48}\text{Ca}(n,\gamma), E=\text{thermal}$; calculated direct capture σ . $^{41, 43, 45, 47, 49}\text{Ca}$ deduced resonance parameters. Optical model.

Keynumber: 1985KA12

Reference: Astrophys.J. 291, 319 (1985)

Authors: F.Kappeler, G.Walter, G.J.Mathews

Title: Stellar Neutron Capture Rates for ^{46}Ca and ^{48}Ca

Keyword abstract: NUCLEAR REACTIONS $^{46, 48}\text{Ca}(n,\gamma), E \leq 97 \text{ keV}$; measured $E\gamma, I\gamma, \text{capture } \sigma(E)$; deduced stellar neutron capture rates.

Keynumber: 1983SA30

Reference: Aust.J.Phys. 36, 583 (1983)

Authors: D.G.Sargood

Title: Effect of Excited States on Thermonuclear Reaction Rates

Keyword abstract: NUCLEAR REACTIONS, ICPND $^{20, 21, 22}\text{Ne}, ^{23}\text{Na}, ^{24, 25, 26}\text{Mg}, ^{27}\text{Al}, ^{28, 29}, ^{30}\text{Si}, ^{31}\text{P}, ^{32, 33, 34, 36}\text{S}, ^{35, 37}\text{Cl}, ^{36, 38, 40}\text{Ar}, ^{39, 40, 41}\text{K}, ^{40, 42, 43, 44, 46, 48}\text{Ca}, ^{45}\text{Sc}, ^{46, 47, 48, 49}, ^{50}\text{Ti}, ^{50, 51}\text{V}, ^{50, 52, 53, 54}\text{Cr}, ^{55}\text{Mn}, ^{54, 56, 57, 58}\text{Fe}, ^{59}\text{Co}, ^{58, 60, 61, 62, 64}\text{Ni}, ^{63, 65}\text{Cu}, ^{64, 66, 67}\text{Zn}(n,\gamma), (n,p), (n,\alpha), (p,\gamma), (p,n), (p,\alpha), (\alpha,\gamma), (\alpha,n), (\alpha,p), ^{70}\text{Zn}(p,\gamma), (p,n), (p,\alpha), (\alpha,\gamma), (\alpha,n), (\alpha,p), E=\text{low}$; compiled target thermal distribution energy state to ground state thermonuclear reaction rate of reaction σ vs temperature. Statistical model.

Keynumber: 1983MAZD

Reference: Bull.Am.Phys.Soc. 28, No.7, 988, DB9 (1983)

Authors: G.J.Mathews, F.Kaeppler, G.Walter

Title: Stellar Neutron Capture Cross Sections for $^{46, 48}\text{Ca}$

Keyword abstract: NUCLEAR REACTIONS $^{46, 48}\text{Ca}(n,\gamma), E \approx \text{stellar energies}$; measured Maxwellian $\langle \sigma(\text{capture}) \rangle$ deduced s-process inadequacy for $^{48}\text{Ca}/^{46}\text{Ca}$ abundance ratio.

Keynumber: 1980PIZN

Coden: CONF Kiev(Neutron Physics) Proc,Part3,P270,Pisanko

Keyword abstract: NUCLEAR REACTIONS $^{22, 23}\text{Na}, \text{Mg}, ^{24, 25, 26}\text{Mg}, ^{27}\text{Al}, \text{Si}, ^{28, 29}, ^{30}\text{Si}, ^{31}\text{P}, \text{S}, ^{32, 33, 34}\text{S}, \text{Cl}, ^{35, 36, 37}\text{Cl}, \text{Ar}, ^{36, 38, 40}\text{Ar}, \text{K}, ^{39, 40, 41}\text{K}, \text{Ca}, ^{40, 42, 43, 44, 46, 48}\text{Ca}, ^{45, 46}\text{Sc}, \text{Ti}, ^{46, 47, 48}, ^{49, 50}\text{Ti}, \text{V}, ^{50, 51}\text{V}, \text{Cr}, ^{50, 52, 53, 54}\text{Cr}, \text{Fe}, ^{54, 56, 57, 58}\text{Fe}, ^{59}\text{Co}, \text{Ni}, ^{58, 59, 60, 61, 62, 64}\text{Ni}, \text{Cu}, ^{63}, ^{65}\text{Cu}, \text{Zn}, ^{64, 66, 67, 68}, ^{70}\text{Zn}, \text{Ga}, ^{69, 71}\text{Ga}(n,\gamma), (n,n), (n,\alpha), E=\text{thermal}$; evaluated σ , radiative capture resonance integrals.

Keynumber: 1971ARZJ

Coden: CONF Legnaro(1f_{7/2} Nuclei),P251

Keyword abstract: NUCLEAR REACTIONS $^{36}\text{Ar}, ^{40}\text{Ar}, ^{40}\text{K}, ^{40, 42, 44, 46, 48}\text{Ca}, ^{47}\text{Ti}, ^{55}\text{Mn}, ^{57}\text{Fe}, ^{59}\text{Co}(n,\gamma), E=\text{thermal}$; surveyed $E\gamma, I\gamma, \gamma\gamma\text{-coin}, \gamma\gamma(\theta), \gamma\text{-polarization data}$. $^{37}\text{Ar}, ^{41}\text{Ar}, ^{41}\text{K}, ^{41, 43, 45, 47}, ^{49}\text{Ca}, ^{48}\text{Ti}, ^{56}\text{Mn}, ^{58}\text{Fe}, ^{60}\text{Co}$ deduced levels, J, π, γ -mixing.

Keynumber: 1970CR04

Reference: Nucl.Phys. A153, 413 (1970)

Authors: F.P.Cranston, R.E.Birkett, D.H.White, J.A.Hughes

Title: Levels in ^{47}Ca and ^{41}Ca Populated in Thermal Neutron Capture

Keyword abstract: NUCLEAR REACTIONS $^{40}, ^{46}\text{Ca}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma$; deduced $Q, ^{41}, ^{47}\text{Ca}$ deduced levels, γ -branching. $^{44}, ^{45}, ^{49}\text{Ca}, ^{47}, ^{49}\text{Sc}$ deduced transitions. Enriched target.
