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11 reference(s) found :

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: 1994BE29
Reference: Acta Phys.Pol. B25, 629 (1994)
Authors: H.Beer
Title: Neutron Capture Rates of Light Isotopes for Inhomogeneous Big Bang Nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{107}, ^{109}Ag, ^{22}Ne, ^{14}C, ^{18}O, ^{15}N(n,γ),E=thermal; measured γ-spectra,σ. ^{194}, ^{196}, ^{198}Pt(n,γ),E=thermal; measured isomeric σ ratio. Fast cyclic activation technique,targets of Kr,Xe also studied.

Keynumber: 1991BE36
Reference: Astrophys.J. 379, 420 (1991)
Authors: H.Beer, G.Rupp, F.Voss, F.Kappeler
Title: A Measurement of the ^{22}Ne(n,γ)^{23}Ne Capture Cross Section at a Stellar Temperature of kT = 25 keV
Keyword abstract: NUCLEAR REACTIONS ^{22}Ne(n,γ),E=low; measured capture σ; deduced σ at kT=25 keV. Fast cyclic activation technique,neutrons from ^{7}Li(p,n) reaction.

Keynumber: 1988WI14
Reference: Astrophys.J. 329, 943 (1988)
Authors: R.R.Winters, R.L.Macklin
Title: Resonance Neutron Capture by ^{20}, ^{22}Ne in Stellar Environments
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{22}Ne(n,γ),E=2.5-200 keV; measured resonance capture yield vs E; deduced effective σ(E),Maxwellian averaged σ. ^{21}, ^{23}Ne deduced resonances,Γγ, (gΓn).

Keynumber: 1986PR05
Reference: Z.Phys. A325, 321 (1986)
Authors: W.V.Prestwich, T.J.Kennett, J.-S.Tsai
Title: The Thermal Neutron Capture Gamma-Ray Spectrum of Neon
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{21}, ^{22}Ne(n,γ),E=thermal; measured Eγ,Iγ. ^{21}, ^{22}, ^{23}Ne deduced transitions,neutron separation energies. Natural target,pair spectrometer.

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}Ne, ^{23}Na, ^{24}, ^{25}, ^{26}Mg, ^{27}Al, ^{28}, ^{29}, ^{30}Si, ^{31}P, ^{32}, ^{33}, ^{34}, ^{36}S, ^{35}, ^{37}Cl, ^{36}, ^{38}, ^{40}Ar, ^{39}, ^{40}, ^{41}K, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}Sc, ^{46}, ^{47}, ^{48}, ^{49},

^{50}Ti, ^{50}, ^{51}V, ^{50}, ^{52}, ^{53}, ^{54}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co, ^{58}, ^{60}, ^{61}, ^{62}, ^{64}Ni, ^{63}, ^{65}Cu, ^{64}, ^{66}, ^{67}Zn(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), ^{70}Zn(p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E=low; compiled target thermal distribution energy state to ground state thermonuclear reaction rate of reaction σ vs temperature. Statistical model.

Keynumber: 1983ALZS
Reference: NEANDC(E)-242U, Vol.V, p.1 (1983)
Authors: J.Almeida, F.Kappeler
Title: Isotopic Neon Cross Sections for a Study of Neutron Balance and Temperature During s-Process Nucleosynthesis
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{21}, ^{22}Ne(n,γ),E=5-400 keV; measured capture σ(E),σ; deduced Maxwellian averaged σ,s-process temperature lower limit.

Keynumber: 1982ALZU
Coden: REPT KfK-3347,Almeida
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{21}, ^{22}Ne(n,γ),E=5-200 keV; measured σ(capture) vs E. ^{20}, ^{21}, ^{22}Ne(n,X),E=5-800 keV; measured σ(total) vs E; deduced Maxwellian <σ >average s-process temperature.

Keynumber: 1981ALZQ
Reference: NEANDC(E)-222U, Vol.V, p.1 (1981)
Authors: J.Almeida, D.Erbe, F.Kappeler
Title: Neutron Total and Capture Cross Sections of the Stable Ne Isotopes
Keyword abstract: NUCLEAR REACTIONS Ne, ^{21}, ^{22}Ne(n,n), (n,γ),E <800 keV: measured σ(total),σ (capture) vs E. Tof,natural,enriched targets,C_6D_6 detectors.

Keynumber: 1977RI14
Reference: Nucl.Instrum.Methods 144, 323 (1977)
Authors: M.Riihonen, J.Keinonen
Title: Measurements of Absolute Resonance Strengths in (p,γ) Reactions on Rare or Gaseous Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{21}, ^{22}Ne, ^{54}, ^{56}, ^{57}, ^{58}Fe(n,γ); measured yields. ^{55}, ^{57}, ^{58}, ^{59}Co deduced resonance strength.

Keynumber: 1971BE34
Reference: Atomkernenergie 17, 145 (1971)
Authors: D.Bellman
Title: Strahlungsubergange vom Stickstoff und naturlichen Neon nach Einfang thermischer Neutronen
Keyword abstract: NUCLEAR REACTIONS ^{14}N, ^{20}, ^{21}, ^{22}Ne(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{15}N, ^{21}, ^{22}, ^{23}Ne deduced transitions.
