

論文リスト

ReferredJournal

1. *Theoretical reaction rates of $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ below $T_{\alpha}=3$,*
M.Katsuma,
The Astrophysical Journal **745**, 192(2012).
2. *Almost complete transparency of the $\alpha + ^{12}\text{C}$ system at sub-barrier energies,*
M.Katsuma,
Phys.Rev.C **81**, 067603(2010).
3. *Reply to "Comment on 'Low-energy cross sections in the $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ reaction'"*,
M.Katsuma,
Phys.Rev.C **81**, 029804(2010).
4. *Low-energy cross sections in the $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ reaction*,
M.Katsuma,
Phys.Rev.C **78**, 034606(2008).
5. *Percolation-fission model study of the 1 GeV proton -induced reaction on ^{208}Pb targets*,
M.Katsuma, H.Kobayashi, T.Sasa, T.Sawada,
Phys.Rev.C **71**, 044605(2005).
6. *Rotational bands with cluster structure for ^{24}Mg , ^{28}Si and ^{32}S* ,
Y.Kondo and M.Katsuma,
Nucl.Phys.A **738**, 226(2004).
7. *Coupled-channels study of the nuclear rainbow phenomenon for the $^{16}\text{O} + ^{16}\text{O}$ system*,
M.Katsuma, Y.Sakuragi, S.Okabe and Y.Kondo
Progress of Theoretical Physics **107**, 377(2002).
8. *Spin-orbit interactions for ^3He -nucleus scattering at intermediate energies*,
Y.Sakuragi and M.Katsuma,
Nuclear Instruments and Methods in Physics Research A **402**, 347(1998).

Journal

9. 天体核反応における直接核反応過程からの寄与 (和文)
勝間正彦,
素粒子論研究電子版 Vol.10(2011)No.2,p163.
10. *Heavy ion resonances of the $^{16}\text{O} + ^{16}\text{O}$ system in multi-cluster exit channels*,
M.Katsuma,
原子核研究 **43**(1999), 145-151.

Proceedings

11. *Systematic analysis of astrophysical S-factors and thermonuclear reaction rates*,
M.Katsuma,
Proceedings of the 2nd International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions (FINUSTAR2), Aghios Nikolaos, Crete, Greece, 10-14 September 2007, AIP Conf. Proc. **1012**, 365(2008).
12. *From the microcosm of the atomic nucleus to the macrocosm of the stars*,
M.Arnaud and M.Katsuma,
Proc. Int. Conf. on Nucl. Data for Sci. and Tech. 2007 (ND2007), Nice, France, 22-27 April 2007, p.5 (EDP

Sciences).

13. A status report of the data evaluation in the NACRE update and extension project ,
M.Katsuma,
Proceedings of Tours Symposium on Nuclear Physics V I, Tours, France, 5-8 September 2006, AIP Conf. Pro c. **891**, 355(2007).
14. R-matrix and potential mode extrapolations for NAC RE update and extension project ,
M.Aikawa,K.Arai,M.Katsuma,K.Takahashi,M.Arnoould and H.Utsunomiya,
Proceedings of Int. Symp. on Origin of Matter and Evolution of Galaxies 2005 (OMEG05), Tokyo, Japan, 8 -11 November 2005,AIP Conf. Proc. **847**,359(2006).
15. Spallation yields predictions in an ADStarget system for source term evaluation ,
T.Sawada,M.Katsuma,H.Kobayashi,T.Sasa,V.Artysyuk and M.Saito,
Proceedings of GLOBAL 2005, International Conference, Nuclear Energy Systems for Future Generation and Global Sustainability, 9-13 October 2005, Tsukuba, Japan,paper553.
16. Percolation-fission model study of the fragment mass distribution for the 1GeV proton induced reaction ,
M.Katsuma,H.Kobayashi,T.Sasa and T.Sawada,
Proceedings of the 2004 Symposium on Nuclear Data (SND2004), JAERI Tokai, Japan, 11-12 November 2004, (JAERI-Conf2005-005).
17. Double-folding potentials for the $^{16}\text{O} + ^{16}\text{O}$ system in the coupled-channels framework ,
M.Katsuma,Y.Sakuragi,S.Okabe and Y.Kondo ,
Proceedings of the International Symposium on Clustering Aspects of Quantum Manybody Systems (POSTYK01), Kyoto, Japan, 12-14 November 2001, p115-118 (World Scientific,2002).
18. Microscopic coupled-channel study of heavy-ion resonance and multi-cluster exit channels ,
Y.Sakuragi,M.Ito,M.Katsuma,M.Takashina,Y.Kudo,Y.Hirabayashi,S.Okabe and Y.Abe,
Proceedings of the 7th International Conference on Clustering Aspects of Nuclear Structure and Dynamics, Island of Rab,Croatia, 14-19 June 1999, p138-142 (World Scientific,1999).
19. Heavy-ion resonance and multi-cluster states in highly excited nuclei ,
Y.Sakuragi,M.Ito,M.Katsuma,M.Takashina,Y.Kudo,Y.Hirabayashi,S.Okabe and Y.Abe,
Proceedings of the International Workshop on Collective Excitations in Fermi and Bose Systems, São Paulo, Brazil, 14-17 September 1998, p483-497 (World Scientific,1998).
20. Heavy-ion resonance and multi-cluster states in highly excited nuclei ,
Y.Sakuragi,M.Ito,M.Katsuma,M.Takashina,Y.Hirabayashi,S.Okabe and Y.Abe ,
Proceedings of the XVII RCNP International Symposium on Innovative Computational Methods in Nuclear Many-Body Problems (INNOCOM97), Osaka, Japan, 10-15 November 1997, p196-204 (World Scientific,1998).

和文報告書

21. ポテンシャル散乱の Web オンライン計算
勝間正彦,
荷電粒子核反応データファイル年次報告 No.17(2003 年度)pp.3-11.

博士論文

22. Coupled-channels study of the nuclear rainbow phenomena for the $^{16}\text{O} + ^{16}\text{O}$ system,
M. Katsuma,
大阪市立大学理学研究科, 2002 年 1 月 8 日.