

Tohru Motobayashi

List of Publications by Year in descending order

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94433

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83
all docs

83
docs citations

83
times ranked

2437
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopy of ^{33}Mg with knockout reactions. Physical Review C, 2021, 103, .	2.9	6
2	Progress in nuclear astrophysics of east and southeast Asia. AAPPS Bulletin, 2021, 31, 1.	6.1	5
3	Ten Years of the Asian Nuclear Physics Association (ANPhA) and Major Accelerator Facilities for Nuclear Physics in the Asia Pacific Region. Nuclear Physics News, 2020, 30, 3-45.	0.4	2
4	^{78}Ni revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
5	^{-1}Te -ray spectroscopy of ^{136}Te at relativistic energies. Spectroscopy of strongly deformed ^{32}Ne reactions. Physical Review C, 2019, 99, .	2.9	14
6	Low-lying dipole response in the unstable ^{70}Ni nucleus. Physical Review C, 2018, 98, .	2.9	17
7	Observation of isoscalar and isovector dipole excitations in neutron-rich ^{20}O . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 387-392.	4.1	24
8	Coulomb dissociation another $^{\infty}\text{Trojan Horse}$. EPJ Web of Conferences, 2017, 165, 02006.	0.3	0
9	Study of Weakly Bound Nuclei at RIKEN RIBF. Few-Body Systems, 2016, 57, 337-341.	1.5	0
10	Mapping the deformation in the $^{\infty}\text{island of inversion}$ $^{\infty}\text{inelastic scattering of } ^{\infty}\text{Ne}$ and $^{\infty}\text{Mg}$ at intermediate energies. Nucleus $^{\infty}\text{Mg}$ near 200 MeV/nucleon with a thick target. Physical Review C, 2015, 92, .	2.9	28
11	Relativistic Coulomb excitation in ^{26}O : A moderate $^{\infty}\text{E}$ DALI2: A NaI (Tl) detector array for measurements of ^{13}C rays from fast nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 596-603.	7.8	94
12	Quadrupole collectivity in island-of-inversion nuclei $^{28,30}\text{Ne}$ and $^{34,36}\text{Mg}$. Physical Review C, 2014, 89, .	2.9	12
13	Invariant-Mass Spectroscopy of Extremely Neutron-Rich Nuclei with SAMURAI at RIBF. , 2015, , .	2.9	50
14	World new facilities for radioactive isotope beams. EPJ Web of Conferences, 2014, 66, 01013.	1.6	140
15	World new facilities for radioactive isotope beams. EPJ Web of Conferences, 2014, 66, 01013.	0.3	18

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19	SAMURAI spectrometer for RI beam experiments. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 294-304.	1.4	111
20	Evidence for a new nuclear $\tilde{\nu}$ -magic number $\tilde{\nu}$ ™ from the level structure of 54Ca. Nature, 2013, 502, 207-210.	27.8	308
21	In-Beam $\tilde{\nu}$-Ray Spectroscopy of $\tilde{\nu}$ -Ray Spectroscopy of Merging the Mg 34 36 38	7.8	92
22	Collectivity evolution in the neutron-rich Pd isotopes toward the N=82shell closure. Physical Review C, 2013, 88, .	2.9	23
23	Research with fast radioactive isotope beams at RIKEN. Progress of Theoretical and Experimental Physics, 2012, 2012, . N 16 Spherical	6.6	24
24	Shell Closure in O 24 109 Well Developed Deformation in Si 42	7.8	92
25	Well Developed Deformation in Si 42	7.8	94
26	Hindered Proton Collectivity in S121628: Possible Magic Number at Z=16. Physical Review Letters, 2012, 108, 222501.	7.8	23
27	Solar fusion cross sections. II. The p -chain and CNO cycles. Reviews of Modern Physics, 2011, 83, 195-245.	45.6	574
28	Resonance states in ^{27}P using Coulomb dissociation and their effect on the stellar reaction $^{26}Si(p, \tilde{\nu})^{27}P$. Physical Review C, 2011, 84, .	2.9	13
29	Identification of 45 New Neutron-Rich Isotopes Produced by In-Flight Fission of a ^{238}U Beam at 345 MeV/nucleon. Journal of the Physical Society of Japan, 2010, 79, 073201.	1.6	160
30	Low-lying intruder state of the unbound nucleus ^{13}Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 245-249.	4.1	72
31	Observation of a Large Reaction Cross Section in the Drip-Line Nucleus ^{22}C 22 Mg 32 studied by	7.8	198
32	Low-lying states in ^{22}Mg 32 studied by	2.9	49
33	Spectroscopy of ^{32}Ne and the $\tilde{\nu}$ -island of Inversion $\tilde{\nu}$. Physical Review Letters, 2009, 103, 032501.	7.8	91
34	Halo Structure of the Island of Inversion Nucleus ^{31}Ne 31	7.8	182
35	Low-lying proton intruder state in ^{13}B . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 311-314.	4.1	20
36	Identification of New Isotopes ^{125}Pd and ^{126}Pd Produced by In-Flight Fission of 345 MeV/nucleon ^{238}U : First Results from the RIKEN RI Beam Factory. Journal of the Physical Society of Japan, 2008, 77, 083201.	1.6	104

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37	Inelastic scattering studies of ^{16}C reexamined. <i>Physical Review C</i> , 2008, 78, .	2.9	16
38	Lifetime measurements of first excited states in ^{16}C , ^{18}O . <i>Physical Review C</i> , 2008, 78, .	2.9	68
39	Spectroscopic Study of Neutron Shell Closures via Nucleon Transfer in the Near-Dripline Nucleus ^{23}O . <i>Physical Review Letters</i> , 2007, 98, 102502.	7.8	81
40	Proton single-particle states in the neutron-rich ^{23}F nucleus. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 638, 146-152.	4.1	33
41	Testing of the RIKEN-ATOMKI CsI(Tl) array in the study of ^{22}O , ^{23}O nuclear structure. <i>European Physical Journal A</i> , 2006, 27, 321-324.	2.5	3
42	Observation of Strong Low-Lying $E1$ Strength in the Two-Neutron Halo Nucleus ^{11}Li . <i>Physical Review Letters</i> , 2006, 96, 252502.	7.8	253
43	Neutron-dominant quadrupole collective motion in ^{16}C . <i>Physical Review C</i> , 2006, 73, .	2.9	48
44	Proton inelastic scattering studies at the borders of the "island of inversion" in ^{30}Na , ^{31}Mg and ^{33}Mg , ^{34}Mg case. <i>Physical Review C</i> , 2006, 73, .	2.9	45
45	Liquid hydrogen and helium targets for radioisotope beams at RIKEN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 555, 1-5.	1.6	83
46	Quadrupole collectivity of ^{28}Ne and the boundary of the island of inversion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 620, 118-124.	4.1	57
47	Anomalously Hindered $E2$ Strength $B(E2; 21^+ \rightarrow 0^+)$ in ^{16}C . <i>Physical Review Letters</i> , 2004, 92, 062501.	7.8	102
48	Decoupling of valence neutrons from the core in ^{16}C . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 586, 34-40.	4.1	67
49	Study of the Stellar $^{22}\text{Mg}(p, ^3\text{He})^{23}\text{Al}$ Reaction using the Coulomb-Dissociation Method. <i>Nuclear Physics A</i> , 2004, 734, E77-E79.	1.5	9
50	RI beam factory project at RIKEN. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 204, 736-738.	1.4	15
51	Isomeric 0^+ state in ^{12}Be . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 560, 31-36.	4.1	113
52	The first excited state of ^{30}Ne studied by proton inelastic scattering in reversed kinematics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 566, 84-89.	4.1	145
53	STUDIES OF COULOMB EXCITATION AND COULOMB DISSOCIATION FOR NUCLEAR ASTROPHYSICS. , 2003, , .		0
54	Experimental Studies of Nuclear Astrophysics with Fast RI beams. <i>Journal of Nuclear Science and Technology</i> , 2002, 39, 558-561.	1.3	0

#	ARTICLE	IF	CITATIONS
55	New neutron-rich isotopes, ^{34}Ne , ^{37}Na and ^{43}Si , produced by fragmentation of a 64 A MeV ^{48}Ca beam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 542, 49-54.	4.1	89
56	Inelastic scattering on ^{12}Be and disappearance of the $N = 8$ magic number. European Physical Journal A, 2002, 13, 55-58.	2.5	3
57	Coulomb dissociation studies for reactions in steady and explosive hydrogen burning. European Physical Journal A, 2002, 13, 207-212.	2.5	0
58	Spectroscopy of nuclei around $N = 20$ with direct reactions. European Physical Journal A, 2002, 15, 99-103.	2.5	6
59	MOLECULAR STATES IN NEUTRON-RICH BERYLLIUM ISOTOPES. , 2002, , .		1
60	INDIRECT MEASUREMENTS OF THE $^{7}\text{Be}(p,^{8}\text{B})$ REACTION. , 2002, , .		0
61	RECENT STATUS OF ASTROPHYSICAL S_{17} . , 2002, , .		0
62	Deformation of ^{34}Mg studied via in-beam ^{13}C -ray spectroscopy using radioactive-ion projectile fragmentation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 499, 233-237.	4.1	110
63	Large collectivity of ^{34}Mg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 522, 227-232.	4.1	130
64	Indirect measurements of the solar-neutrino production reaction $^{7}\text{Be}(p)^{8}\text{B}$. Nuclear Physics A, 2001, 693, 258-268.	1.5	20
65	DETERMINATION OF THE ASTROPHYSICAL S_{17} AND S_{18} FROM $^{7}\text{Be}(p,^{8}\text{B})$ AND $^{8}\text{Be}(p,^{9}\text{C})$ CROSS-SECTIONS. , 2001, , .		0
66	NUCLEAR REACTIONS IN THE SUN (EXPERIMENT). , 2001, , .		0
67	Low-lying intruder $1\alpha^{+}$ state in ^{12}Be and the melting of the $N=8$ shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 491, 8-14.	4.1	161
68	The β -decay energies and halfives of $^{195}\text{g,mAt}$ and ^{199}Fr . European Physical Journal A, 1999, 5, 123-125.	2.5	13
69	Further measurement of the $^{7}\text{Be}(p,^{8}\text{B})$ cross section at low energies with the coulomb dissociation of ^{8}B . European Physical Journal A, 1998, 3, 213-215.	2.5	73
70	Nuclear astrophysics with intermediate-energy RI beams. , 1998, , .		0
71	Coulomb dissociation of. , 1998, , .		0
72	Experimental determination of the E2 component in the Coulomb dissociation of ^{8}B . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 391, 261-266.	4.1	94

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73	New β^{\pm} -decaying neutron-deficient isotope ^{196}Rn . Zeitschrift für Physik A, 1997, 357, 1-2.	0.9	14
74	Study of the $^{7}\text{Be}(p, \beta^{\pm})^{8}\text{B}$ Reaction with the Coulomb Dissociation Method. Journal of the Physical Society of Japan, 1996, 65, 1256-1263.	1.6	28
75	Large deformation of the very neutron-rich nucleus ^{32}Mg from intermediate-energy Coulomb excitation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 346, 9-14.	4.1	584
76	Study of β^{\pm} Decays in the $^{40}\text{Ar}+^{232}\text{Th}$ Reaction Using the RIKEN Gas-Filled Separator I-General. , 1995, , .		0
77	COULOMB DISSOCIATION EXPERIMENTS OF ASTROPHYSICAL INTEREST. , 1995, , .		0
78	Breakup of ^{16}O on the way to the astrophysical problem. , 1995, , .		0
79	Coulomb Dissociation of ^{8}B and the $^{7}\text{Be}(p, \beta^{\pm})^{8}\text{B}$ Reaction at Low Energies. Physical Review Letters, 1994, 73, 2680-2683.	7.8	223
80	Heavy element synthesis by $(\text{H}, \beta^{\pm}\text{n})$ reactions. AIP Conference Proceedings, 1992, , .	0.4	0
81	Determination of the astrophysical $^{13}\text{N}(p, \beta^{\pm})^{14}\text{O}$ cross section through the Coulomb dissociation method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 259-263.	4.1	104
82	Response of Barium-Fluoride Plastic Scintillator to Light Particles and Particle Identification. IEEE Transactions on Nuclear Science, 1987, 34, 438-441.	2.0	7