

Megumi Niikura

List of Publications by Year in descending order

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155
papers

2,640
citations

218677

26
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233421

45
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159
all docs

159
docs citations

159
times ranked

1452
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathway for the Production of Neutron-Rich Isotopes around the $N=126$ Shell Closure: A Physical Review Letters, 2019, 112, 112601. $N < 126 < /math > Shell$	7.8	187
2	Decay Half-Lives of 110 Neutron-Rich Nuclei across the $N=82$ Shell Gap: Implications for the Mechanism and Universality of the Astrophysical r -Process. $N < 82 < /math > Shell$	7.8	167
3	78Ni revealed as a doubly magic stronghold against nuclear deformation. Nature, 2019, 569, 53-58.	27.8	120
4	^{12}C -Decay Half-Lives of Co $^{12}\text{C} < /math > -\text{Decay Half-Lives of } \text{Co} < /math >$	7.8	103
5	Island of Inversion towards $N=40$ of Ni $N < 40 < /math > \text{Island of Inversion towards } N < 40 < /math >$	7.8	77
6	Quantitative analysis of two-neutron correlations in the Ni Spectroscopy of Ni $N < 50 < /math >$		

#	ARTICLE	IF	CITATIONS
19	Type II shell evolution in $A = 70$ isobars from the $N = 40$ island of inversion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 328-333.	4.1	33
20	Low-lying non-normal parity states in 8B measured by proton elastic scattering on 7Be . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 230-234.	4.1	30
21	Nuclear structure and β -decay schemes for Te nuclides beyond $N = 82$. Physical Review C, 2017, 95, .	2.9	30
22	Shell evolution beyond $Z = 28$ and $N = 50$: Spectroscopy of $81, 82, 83, 84\text{Zn}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 492-497.	4.1	29
23	Low-lying States in ^{78}Cu . Physical Review C, 2017, 95, .	7.8	29
24	Low-lying structure and shape evolution in neutron-rich Se isotopes. Physical Review C, 2017, 95, .	2.9	28
25	Identification of Excited States in the ^{110}Xe . Physical Review Letters, 2007, 99, 022501.	7.8	27
26	Enhancement of the two neutron transfer channel in ^{18}O induced reactions at 84 MeV . Journal of Physics: Conference Series, 2011, 312, 082016.	0.4	26
27	β -delayed γ -ray spectroscopy of non-yrast states in ^{12}Te . Transition probabilities in neutron-rich ^{13}Se near the neutron drip line. Physical Review C, 2015, 93, .	2.9	26
28	Transition probabilities in neutron-rich ^{13}Se near the neutron drip line. Physical Review C, 2015, 93, .	2.9	25
29	Low-lying excitations in ^{132}Sn . Physical Review C, 2016, 93, .	7.8	24
30	Low-lying excitations in ^{72}Ni . Physical Review C, 2016, 93, .	2.9	24
31	Low-lying excitations in ^{7}He . Physical Review C, 2016, 93, .	2.9	23
32	New isomer found in ^{140}Sb : Sphericity and shell evolution between $N = 82$ and $N = 90$. Physical Review C, 2016, 93, .	2.9	23
33	Observation of a millisecond isomeric state in ^{123}Cd . Physical Review Letters, 2017, 118, 202502.	4.1	22
34	Gamma Decay of Unbound Neutron-Hole States in ^{133}Sn . Physical Review Letters, 2017, 118, 202502.	7.8	22
35	Quadrupole collectivity in ^{42}Ca from low-energy Coulomb excitation with AGATA. Physical Review C, 2018, 97, .	2.9	22
36	Interplay between nuclear shell evolution and shape deformation revealed by the magnetic moment of ^{75}Cu . Nature Physics, 2019, 15, 321-325.	16.7	22

#	ARTICLE	IF	CITATIONS
37	Shape evolution in $^{116,118}\text{Ru}$: Triaxiality and transition between the $O(6)$ and $U(5)$ dynamical symmetries. <i>Physical Review C</i> , 2013, 88, .	2.9	21
38	Observation of new neutron-rich Mn, Fe, Co, Ni, and Cu isotopes in the vicinity of ^{78}Ni . <i>Physical Review C</i> , 2017, 95, .	2.9	21
39	Study of proton- and deuteron-induced spallation reactions on the long-lived fission product ^{93}Zr at 105 MeV/nucleon in inverse kinematics. <i>Progress of Theoretical and Experimental Physics</i> , 2017, 2017, .	6.6	21
40	Is seniority a partial dynamic symmetry in the first $\hat{1}^2_{g,9/2}$ shell?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 706-712.	4.1	21
41	Study of collisions of $^{136}\text{Xe}+^{198}\text{Pt}$ for the KEK isotope separator. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 317, 752-755.	1.4	20
42	$\hat{1}^2$ decay of ^{129}Cd and excited states in ^{129}In . <i>Physical Review C</i> , 2015, 91, .	2.9	20
43	Inelastic scattering of neutron-rich Ni and Zn isotopes off a proton target. <i>Physical Review C</i> , 2018, 97, .	2.9	20
44	Projectile fragmentation of ^{86}Kr at 64 MeV/nucleon. <i>Physical Review C</i> , 2007, 76, .	2.9	19
45	The Orsay Universal Plunger System. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 679, 61-66.	1.6	19
46	Structure of ^{80}Ge revealed by the $\hat{1}^2$ decay of isomeric states in ^{80}Ga : Triaxiality in the vicinity of ^{78}Ni . <i>Physical Review C</i> , 2013, 87, .	2.9	19
47	Low-lying intruder and tensor-driven structures in ^{82}As . <i>Physical Review C</i> , 2015, 91, .	2.9	19
48	Probing nuclear structures in the vicinity of ^{78}Ni with $\hat{1}^2$ decay at a new scheme. <i>Physical Review C</i> , 2015, 91, .	2.9	18
49	Existence of a $\hat{1}^2_{g,9/2}$ isomer of ^{78}Ni . <i>Physical Review C</i> , 2015, 91, .	2.9	18
50	Coulomb excitation of ^{44}Ca and ^{46}Ar . <i>Physical Review C</i> , 2016, 93, .	2.9	18
51	Persistence of the $\hat{1}^2_{g,9/2}$ isomer of ^{78}Ni . <i>Physical Review C</i> , 2015, 91, .	2.9	18
52	Shell closure in the neutron-rich isotope ^{80}Ge . <i>Physical Review C</i> , 2008, 78, .	2.9	17
53	^{72}Zn state in ^{74}Zn . <i>Physical Review C</i> , 2015, 91, .	2.9	17
54	New evidence for a shape transition between $^{68,69,70}\text{Mn}$: Decay properties of $^{68,69,70}\text{Mn}$: Probing collectivity up to $N = 44$ in Fe isotopic chain. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 751, 107-112.	4.1	17

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55	Evolution of single-particle strength in neutron-rich 71 Cu. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 306-310. \hat{I}^2decay of semi-magic	4.1	17
56	Revision and extension of the level scheme of Cd Tracking with the MINOS Time Projection Chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 130-132	2.9	17
57	Proton Shell Evolution below Sn First Measurement of Low-Lying I^2 -Emitting Isomers in	1.6	17
58	Shape coexistence revealed in the $Z=28$ isotope ^{72}Kr through inelastic scattering. European Physical Journal A, 2020, 56, 1.	7.8	17
59	Shape transition observed in neutron-rich pf-shell isotopes studied via proton inelastic scattering. Nuclear Physics A, 2008, 805, 400c-407c.	2.5	16
60	Shape coexistence and isospin symmetry in $A=70$ nuclei: Spectroscopy of the $T=1$ nucleus ^{70}Kr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 441-446.	1.5	15
61	Shape Changes in the Mirror Nuclei ^{70}Kr and ^{70}Zr	4.1	15
62	spectroscopy of ^{70}Te	7.8	15
63	Isomeric and ground-state properties of ^{78}Pt and ^{171}Pt at relativistic energies.	2.9	14
64	Yrast spectroscopy in ^{49}Ti via fusion-evaporation reaction induced by a radioactive beam. European Physical Journal A, 2009, 42, 471	2.5	12
65	Strong ^{25}Al resonance via elastic proton scattering with a radioactive ^{137}Sb decay source	2.9	12
66	Collectivity of neutron-rich Ti isotopes. Physical Review C, 2015, 92, 044307	4.1	12
67	Spectroscopic factor and proton formation probability for the $d_{3/2}$ proton emitter ^{151}Lu . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 83-87.	2.9	11
68	Large proton contribution to the ^{172}Au I^2 and ^{172}Au I^2 and ^{172}Au I^2	2.9	11
69	Nuclear structure of ^{76}Ni from the ^{76}Ni I^2 and ^{76}Ni I^2	2.9	10
70	Large proton contribution to the ^{20}Mg I^2 and ^{20}Mg I^2	2.9	10
71	Large proton contribution to the ^{20}Mg I^2 and ^{20}Mg I^2	2.9	10
72	Large proton contribution to the ^{20}Mg I^2 and ^{20}Mg I^2	2.9	10

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73	Spallation reaction study for the long-lived fission product ^{107}Pd . Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	10
74	Shell structure of S_{43} and collapse of the $N=28$ shell closure. Physical Review C, 2020, 102, .	2.9	10
75	Factor of the g Zr		

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91	Towards the Determination of Superdeformation in ^{42}Ca . Acta Physica Polonica B, 2013, 44, 617.	0.8	6
92	Spectroscopy of ^{25}Mg and ^{65}Zn in neutron-rich ^{78}Ni . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 266-270.	4.1	6
93	Strong coupling in the ^{40}Ca island of inversion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 263-268.	2.9	6
94	Spectroscopy of low-lying yrast and non-yrast states in neutron-rich ^{94}Kr and ^{95}Kr . Physical Review C, 2022, 105.	2.9	5
95	In-beam $\hat{\gamma}$ -ray spectroscopy of ^{35}Mg via knockout reactions at intermediate energies. Physical Review C, 2017, 96, .	2.9	5
96	Transition probabilities in neutron-rich ^{80}Se and ^{82}Se . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 266-270.	4.1	5
97	Discovery of 68Br in secondary reactions of radioactive beams. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 266-270.	4.1	5
98	New isomers in ^{125}Pd and ^{127}Pd : Competing proton and neutron excitations in neutron-rich palladium nuclides towards the ^{82}Ni shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 263-268.	4.1	5
99	Irradiation Test of 65-nm Bulk SRAMs With DC Muon Beam at RCNP-MuSIC Facility. IEEE Transactions on Nuclear Science, 2020, 67, 1555-1559.	2.0	5
100	Preliminary Study of Two-Neutron States via the (^{18}O , ^{16}O) Reaction at 84 MeV. , 2011, , .		4
101	Interference effects between direct and sequential processes in the (^{18}O , ^{16}O) reaction. EPJ Web of Conferences, 2014, 66, 03017.	0.3	4
102	Neutron effective single-particle energies above ^{78}Ni : A hint from lifetime measurements in the ^{51}Ni isotones. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 356-361.	2.9	4
103	Inclusive cross sections for one- and multi-nucleon removal from Sn, Sb, and Te projectiles beyond the ^{82}Ni shell closure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 356-361.	4.1	4
104	Or ^{75}Ni and the systematics of the low-lying level structure of neutron-rich odd- Z ^{A}Cu isotopes. Physical Review C, 2021, 103, 044307.	2.9	4
105	Probing nuclear forces beyond the nuclear drip line: the cases of ^{16}F and ^{15}F . European Physical Journal A, 2021, 57, 1.	2.5	4
106	A liquid hydrogen target for radioactive beam experiments using the missing mass method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, , 165477.	1.6	4
107	Spallation reaction study for long-lived fission products in nuclear waste. EPJ Web of Conferences, 2020, 239, 06003.	0.3	4
108	Spallation reaction study for the long-lived fission products in nuclear waste: Cross section measurements for ^{137}Cs , ^{90}Sr and ^{107}Pd using inverse kinematics method. Energy Procedia, 2017, 131, 127-132.	1.8	3
109	Isotope production in proton-, deuteron-, and carbon-induced reactions on ^{93}Nb at 113 MeV/nucleon. Physical Review C, 2019, 100, .	2.9	3

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109	Coulomb breakup reactions of $^{93,94}\text{Zr}$ in inverse kinematics. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	3
110	Spallation and fragmentation cross sections for 168 MeV/nucleon Xe^{136} ions on proton, deuteron, and carbon targets. Physical Review C, 2020, 101, .	2.9	3
111	Isomeric states in neutron-rich nuclei near ^{100}Zr . Physical Review C, 2021, 104, .		
112	Impact of shell evolution on Gamow-Teller \hat{I}^2 decay from a high-spin long-lived isomer in ^{127}Ag . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136766.	4.1	3
113	Two-Neutron Excitations in light nuclei via the ($^{18}\text{O}, ^{16}\text{O}$) reaction at 84 MeV. Journal of Physics: Conference Series, 2011, 312, 092020.	0.4	2
114	Title is missing!. Acta Physica Polonica B, 2011, 42, 537.	0.8	2
115	Spallation reaction study for fission products in nuclear waste: Cross section measurements for ^{137}Cs , ^{90}Sr and ^{107}Pd on proton and deuteron. EPJ Web of Conferences, 2017, 146, 09022.	0.3	2
116	Persistence of the $Z=28$ shell gap in $A=75$ isobars: Identification of a possible $(1/2^+)$ \hat{I}^2 isomer in ^{75}Co and \hat{I}^2 decay to ^{75}Ni . Physical Review C, 2021, 103, .	2.9	2
117	Coulomb and nuclear excitations of ^{70}Zn and ^{68}Ni at intermediate energy. Physical Review C, 2021, 104, .	2.9	2
118	First Results on the Excited States in ^{77}Cu . Acta Physica Polonica B, 2016, 47, 889.	0.8	2
119	First observation of the ^{100}Zr partner orbital configuration in the odd-odd ^{100}Zr . Physical Review C, 2022, 105, .	2.9	2
120	Search for ^{7}H at RIKEN. , 2010, , .		1
121	States of ^{14}C and ^{15}C via the ($^{18}\text{O}, ^{16}\text{O}$) two-neutron transfer reaction at 84 MeV. Journal of Physics: Conference Series, 2012, 381, 012094.	0.4	1
122	Study of the neutron rich sulfur isotope ^{43}S through intermediate energy Coulomb excitation. Journal of Physics: Conference Series, 2013, 413, 012030.	0.4	1
123	Collectivity of neutron-rich Cr and Fe toward $N=50$. EPJ Web of Conferences, 2016, 107, 03007.	0.3	1
124	Reinvestigation of the excited states in the proton emitter ^{151}Lu : Particle-hole excitations across the $N=Z=64$ subshell. Physical Review C, 2017, 96, .	2.9	1
125	Boulay et al. Reply.. Physical Review Letters, 2021, 127, 169202.	7.8	1
126	Isotope-production cross sections of residual nuclei in proton- and deuteron-induced reactions on ^{93}Zr at 50 MeV/u. EPJ Web of Conferences, 2020, 239, 20006.	0.3	1

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127	nuclear structures in ^{140}Zr studied by decay of ground and isomeric states in ^{140}Zr . <i>Journal of Physics: Conference Series</i> , 2007, , .	2.9	1
128	Evidence for enhanced collectivity in Te-I-Xe nuclei near the $N=Z=50$ double shell closure. AIP Conference Proceedings, 2007, , .	0.4	0
129	in ^{136}Xe . <i>Physical Review C</i> , 2015, 92, .	2.9	0
130	Nuclear Astrophysical studies using low-energy RI beams at CRIB. , 2009, , .		0
131	Gamma-Beta-Neutron Detectors Set-Up at ALTO. , 2010, , .		0
132	Publisher's Note: New decay scheme of the ^{85}Sb . <i>Physical Review C</i> , 2015, 92, .	2.9	0
133	Single-particle strength in neutron-rich ^{71}Cu from the $(d,^3\text{He})$ proton pick-up reaction. <i>Journal of Physics: Conference Series</i> , 2015, 580, 012012.	0.4	0
134	New Isomers in Neutron-Rich Cs Isotopes. , 2015, , .		0
135	Systematic Study of ^{78}Ni . , 2015, , .		0
136	Superdeformation in ^{35}S . , 2015, , .		0
137	Shape Evolution in Neutron-Rich Ru Nuclei. , 2015, , .		0
138	Magnetic moment of the ^{13}C isomeric state in ^{13}C . <i>Physical Review C</i> , 2016, 93, .	2.9	0
139	Spin alignment in the one-nucleon removal reaction. <i>Physical Review C</i> , 2016, 93, .		0
140	Inelastic scattering of $^{72,74}\text{Ni}$ off a proton target. <i>Journal of Physics: Conference Series</i> , 2016, 724, 012008.	0.4	0
141	Cross sections for nuclide production in proton- and deuteron-induced reactions on ^{93}Nb measured using the inverse kinematics method. <i>EPJ Web of Conferences</i> , 2017, 146, 11046.	0.3	0
142	Cross section measurement of residues produced in proton- and deuteron-induced spallation reactions on ^{93}Zr at 105 MeV/u using the inverse kinematics method. <i>EPJ Web of Conferences</i> , 2017, 146, 03012.	0.3	0
143	Evidence for octupole collectivity in ^{172}Pt . <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	0
144	DEVELOPMENT OF POSITION SENSITIVE Ge DETECTOR. , 2005, , .		0
144	Experimental Approach to Explosive Nucleosynthesis with RI Beams. <i>Journal of the Korean Physical Society</i> , 2009, 54, 308-312.	0.7	0

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145	FIRST DELAYED NEUTRON EMISSION MEASUREMENTS AT ALTO WITH THE NEUTRON DETECTOR TETRA. , 2013, , .		0
146	Systematic Study of I^2 -Decay Half-Lives in the Vicinity of ^{78}Ni . , 2014, , .		0
147	Production of $N = 126$ Nuclei and Beyond Using Multinucleon Transfer Reactions. , 2017, , .		0
148	Signatures of triaxiality in low-spin spectra of ^{86}Ge . Journal of Physics: Conference Series, 2018, 1023, 012023.	0.4	0
149	Isomer Spectroscopy in Odd-Even Ti Isotopes: Approaching $N=40$. Acta Physica Polonica B, 2019, 50, 669.	0.8	0
150	Spectroscopic Study in Neutron-Rich Mn Isotopes Around the $N = 40$ "island of Inversion", 2019, , .		0
151	Cross-section measurement in the reactions of ^{136}Xe on proton, deuteron and carbon. EPJ Web of Conferences, 2020, 239, 01037.	0.3	0
152	Magnetic Moment of the Isomeric State of ^{75}Cu Measured with a Highly Spin-aligned Beam. , 2020, , .		0
153	Reaction Study on Spallation and Fragmentation of ^{136}Xe Induced by Proton, Deuteron, and Carbon. , 2020, , .		0
154	Determination of beta-delayed neutron emission probability limits of rhodium isotopes by gamma-ray spectroscopy. Journal of Physics: Conference Series, 2020, 1643, 012208.	0.4	0
155	Identification of excited states in ^{55}Te and ^{52}Te . Physical Review C, 2021, 104, .	2.9	0