

Shaofei Zhu

List of Publications by Year in descending order

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174
papers

3,480
citations

136950

32
h-index

197818

49
g-index

175
all docs

175
docs citations

175
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
19	$K\pi=8$ isomers and $K\pi=2$ octupole vibrations in $N=150$ shell-stabilized isotones. Physical Review C, 2008, 78, .	2.9	47
20	β decay and isomeric properties of neutron-rich Ca and Sc isotopes. Physical Review C, 2010, 82, .	2.9	43
21	Two-phonon wobbling in ^{135}Pr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 170-174. Magnetic rotation and quasicollective structures in	4.1	43
22	β decay of ^{58}Fe : Influence of the	2.9	42
23	Fusion of $^{60}\text{Ni} + ^{100}\text{Mo}$ near and below the Coulomb barrier. European Physical Journal A, 2013, 49, 1.	2.5	42
24	Lifetime measurement of candidate chiral doublet bands in the $^{103,104}\text{Rh}$ isotopes with the recoil-distance Doppler-shift method in inverse kinematics. Physical Review C, 2008, 78, .	2.9	41
25	Measurement of the Survival Probabilities for Hot Fusion Reactions. Physical Review Letters, 2014, 112, 152702.	7.8	41
26	New low-energy 0^+ and shape coexistence in	2.9	37
27	Longitudinal wobbling motion in ^{187}Au .	7.8	37
28	Low-spin states and the non-observation of a proposed 2^+ isomer in ^{68}Ni .	2.9	36
29	Nuclear Structure Towards ^{40}Ca .	2.9	35
30	Yrast structure of ^{60}In .	2.9	35
31	Evidence for Rigid Triaxial Deformation in ^{76}Ge from a Model-Independent Analysis. Physical Review Letters, 2019, 123, 102501.	7.8	34
32	Prompt proton decay and deformed bands in ^{56}Ni . Physical Review C, 2008, 77, .	2.9	32
33	Spectroscopy of ^{257}Rf .	2.9	31
34	Higher-seniority excitations in even neutron-rich Sn isotopes. Physical Review C, 2014, 89, .	2.9	31
35	β decay of neutron-rich ^{53}Ca .	2.9	30
36	β decay of neutron-rich ^{56}Ca .	2.9	30

#	ARTICLE	IF	CITATIONS
37	Lifetime of the $\frac{1}{2}g$ on level structures of neutron-rich Mn . Physical Review C, 2010, 82, .	2.9	30
38	Rotational bands in odd-A Cm and Cf isotopes: Exploring the highest neutron orbitals. Physical Review C, 2010, 82, .	2.9	30
39	Lifetime of the 2_1^- in C . Physical Masses and ^{10}C . Physical	2.9	30
40	Decay Spectroscopy of Neutron-Rich Odd-Odd Eu . Physical	2.8	29
41	Multiple octupole-type band structures in Th_{220} : Reflection-asymmetric tidal waves?. Physical Review C, 2006, 74, .	2.9	28
42	Implications for the two-proton decay of Ag .	2.9	28
43	Fusion hindrance for $Al_{27}+Sc_{45}$ and other systems with a positive Q value. Physical Review C, 2010, 81, .	2.9	28
44	Structure of Fe the onset of ^{56}Fe .	2.9	28
45	Isomerism in Rf .	2.9	28
46	Examination of the low-energy enhancement of the ^{56}Fe γ -ray strength function of ^{56}Fe . Physical Review C, 2018, 97, .	2.9	28
47	^{58}Ni γ and particle decay investigations of ^{58}Ni . Physical Review C, 2009, 80, .	2.9	27
48	Nuclear shapes of highly deformed bands in $Hf_{171,172}$ and neighboring Hf isotopes. Physical Review C, 2007, 76, .	2.9	26
49	Rotation-aligned coupling in ^{61}Fe . Physical Review C, 2008, 77, .	2.9	26
50	Core-coupled protons, $f_{7/2}$ intruder states, and competing $g_{9/2}$ proton and neutron structures in $^{65,67}Cu$. Physical Review C, 2012, 85, .	2.9	26
51	Lifetime of the $K^{\pi} \bar{1}^{\pi}$ in the neutron-rich nucleus ^{25}Er .	2.9	25
52	$O(6)$ symmetry breaking in the soft nucleus ^{126}Xe and its evolution in the light stable xenon isotopes. Physical Review C, 2011, 83, .	2.9	25
53	Triaxial-band structures, chirality, and magnetic rotation in ^{25}La . Physical Review C, 2016, 94, .	2.9	25
54	Identification of the bands in the neutron-rich ^{71}Ga . Physical	2.9	24

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55	Two-particle structures and isomers in ^{168}Er . Physical Review C, 2008, 78, .	2.9	24
56	Electromagnetic transition rates in high-spin bands in ^{136}Nd . Physical Review C, 2008, 78, .	2.9	23
57	Level structure of ^{67}Ni . Physical Review C, 2008, 78, .	2.9	23
58	Seniority, collectivity, and $E(2)$ in ^{72}Ni . Physical Review C, 2011, 84, .	2.9	22
59	Extensive $\hat{\Gamma}^3$ -ray spectroscopy of normally and superdeformed structures in ^{61}Cu . European Physical Journal A, 2008, 36, 251-278.	2.5	21
60	coincidence and fast-timing measurements using LaBr ₃ (Ce) detectors and gammasphere. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 231-233.	1.6	21
61	^{208}Pb : High-spin states, isomers, and $E(2)$ collectivity in the yrast decay. Physical Review C, 2017, 95, .	2.9	21
62	Parity doubling in ^{219}Th and the onset of collectivity above $N=126$. Physical Review C, 2009, 80, .	2.9	20
63	High-spin states and isomers in the one-proton-hole and three-neutron-hole ^{206}Tl isotope. Physical Review C, 2011, 84, .	2.9	20
64	^{31}S : From low excitation energies to the region of interest for hydrogen burning in novae through the ^{31}S . Physical Review C, 2008, 78, .	2.9	19
65	Triaxial strongly deformed bands in $^{160,161}\text{Tm}$. Physical Review C, 2008, 78, .	2.9	18
66	Low-energy structure of ^{61}Mn populated following $\hat{\Gamma}^2$ decay of ^{61}Cr . Physical Review C, 2009, 79, .	2.9	18
67	^{19}Cu : Comprehensive $\hat{\Gamma}^3$ -ray spectroscopy of rotational bands in the ^{19}Cu . Physical Review C, 2009, 79, .	2.9	18
68	^{61}Zn : The X-Array and SATURN: A new decay-spectroscopy station for CARIBU. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 232-239.	2.9	18
69	The X-Array and SATURN: A new decay-spectroscopy station for CARIBU. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 232-239.	1.6	18
70	Proton decay of ^{108}I and its significance for the termination of the astrophysical rp-process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 187-192.	4.1	18
71	^{156}Er : Single-particle and collective excitations in ^{156}Er . Physical Review C, 2013, 88, .	2.9	16
72	^{63}Ni : Single-particle and collective excitations in ^{63}Ni . Physical Review C, 2013, 88, .	2.9	16

#	ARTICLE	IF	CITATIONS
91	Shell-model states with seniority 5, and 7 in odd-neutron-rich Sn isotopes. Physical Review C, 2016, 93, .	2.9	12
92	Spectroscopy of the odd-odd f7p-shell nucleus Sc52 from secondary fragmentation. Physical Review C, 2006, 73, .	2.9	11
93	\hat{I}^3 -ray spectroscopy of the odd-odd N=Z+2 deformed proton emitter ^{112}Cs . Physical Review C, 2012, 85, .	2.9	11
94	High-spin yrast structure of ^{204}Hg from the decay of a four-hole, π -particle Character of Rotational States in ^{204}Hg . Physical Review C, 2014, 90, .	2.9	11
95	\hat{I}^2 and isomeric decay of ^{164}V . Physical Review C, 2014, 89, .	2.9	11
96	High-spin structure, K-isomers, and state mixing in the neutron-rich isotopes ^{173}Tm and ^{175}Tm . Physical Review C, 2012, 86, .	2.9	10
97	Revised level structure of ^{120}Te . Physical Review C, 2014, 90, .	2.9	10
98	Population of positive-parity states in the development of collectivity in the ^{161}Lu nucleus. Physical Review C, 2011, 83, .	2.9	10
99	Solving the puzzles of the decay of the heaviest known proton-emitting nucleus ^{160}Lu . Physical Review Letters, 2011, 107, 202501.	7.8	10
100	Triaxiality and exotic rotations at high spins in ^{134}Ce . Physical Review C, 2016, 93, .	2.9	9
101	Alignments, additivity, and signature inversion in odd-odd ^{170}Ta . Physical Review C, 2017, 95, 044307.	2.9	9
102	Investigation of High-Energy Ion-Irradiated MA957 Using Synchrotron Radiation under In-Situ Tension. Materials, 2016, 9, 15.	2.9	9
103	Key Ne-19 States Identified Affecting \hat{I}^3 -Ray Emission from F18 in Novae. Physical Review Letters, 2019, 122, 052701.	7.8	9
104	High-spin structure, K-isomers, and state mixing in the neutron-rich isotopes ^{173}Tm and ^{175}Tm . Physical Review C, 2012, 86, .	2.9	10
105	Revised level structure of ^{120}Te . Physical Review C, 2014, 90, .	2.9	10
106	Population of positive-parity states in the development of collectivity in the ^{161}Lu nucleus. Physical Review C, 2011, 83, .	2.9	10
107	Solving the puzzles of the decay of the heaviest known proton-emitting nucleus ^{160}Lu . Physical Review Letters, 2011, 107, 202501.	7.8	10
108	Triaxiality and exotic rotations at high spins in ^{134}Ce . Physical Review C, 2016, 93, .	2.9	9
109	Alignments, additivity, and signature inversion in odd-odd ^{170}Ta . Physical Review C, 2017, 95, 044307.	2.9	9
110	Investigation of High-Energy Ion-Irradiated MA957 Using Synchrotron Radiation under In-Situ Tension. Materials, 2016, 9, 15.	2.9	9
111	Key Ne-19 States Identified Affecting \hat{I}^3 -Ray Emission from F18 in Novae. Physical Review Letters, 2019, 122, 052701.	7.8	9

#	ARTICLE	IF	CITATIONS
109	High-spin rotational bands in ^{154}Gd , two-quasiparticle states in ^{154}Gd , Coulomb excitation of a ^{154}Gd isomer. Physical Review C, 2020, 101, .	2.9	9
110	Identification of a ^{154}Gd isomer. Physical Review C, 2020, 101, .	2.9	8
111	Quadrupole moment measurements for strongly deformed bands in $^{171,172}\text{Hf}$. Physical Review C, 2011, 83, .	2.9	8
112	Absolute β -to-ground band transition strengths in ^{154}Gd . Physical Review C, 2012, 86, .	2.9	8
113	Identification of a ^{154}Gd isomer and the possible role of ^{154}Gd . Physical Review C, 2012, 86, .	2.9	7
114	High-spin rotational bands in ^{123}I . Physical Review C, 2012, 86, .	2.9	7
115	Three-quasiparticle isomers and possible deformation in the transitional nuclide, ^{137}La . Physical Review C, 2013, 87, .	2.9	7
116	Identification of triaxial strongly deformed bands in ^{164}Hf . Physical Review C, 2013, 88, .	2.9	7
117	In-beam spectroscopy of medium- and high-spin states in ^{133}Ce . Physical Review C, 2016, 93, .	2.9	7
118	Decay half-lives of ^{134}Sb and their isomeric yield ratio produced by the spontaneous fission of ^{252}Cf . Physical Review C, 2010, 82, .	2.9	7
119	Band crossings in ^{134}Sb . Physical Review C, 2010, 82, .	2.9	6
120	Decay of the key 92-keV resonance in the $^{25}\text{Mg}(p,\beta^3)$ reaction to the ground and isomeric states of the cosmic β^3 -ray emitter ^{26}Al . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136033.	4.1	6
121	Identification of $J^\pi = 19/2^+$ and $23/2^+$ isomeric states in ^{127}Sb . European Physical Journal A, 2009, 42, 163.	2.5	5
122	Multi-quasiparticle structures up to spin $15/2^+$ in ^{127}Sb . Physical Review C, 2010, 82, .	2.9	5
123	High-spin yrast structure of ^{159}Ho . Physical Review C, 2011, 84, .	2.9	5
124	Quadrupole moments of coexisting collective shapes at high spin in ^{154}Er . Physical Review C, 2013, 88, .	2.9	5
125	High-spin structure of odd-odd ^{172}Re . Physical Review C, 2014, 90, .	2.9	5
126	Upper limit on the two-photon emission branch for the $02^+ \rightarrow 01^+$ transition in ^{98}Mo . Physical Review C, 2014, 89, .	2.9	5

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127	Precise absolute β -ray and α -decay branching intensities in the decay of Cu^{2967} . <i>Physical Review C</i> , 2015, 92, .	2.9	5
128	Population and decay of a K^{π} isomer in ^{244}Pu . <i>Physical Review C</i> , 2016, 94, .	2.9	5
129	One-neutron transfer study of ^{137}Xe and systematics of $^{13/21+}$ and $^{13/22+}$ levels in $N=83$ nuclei. <i>Physical Review C</i> , 2016, 94, .	2.9	5
130	Probing the role of proton cross-shell excitations in ^{70}Ni using nucleon knockout reactions. <i>Physical Review C</i> , 2019, 100, .	2.9	5
131	K^{π} isomers in ^{248}Cm . <i>Physical Review C</i> , 2019, 100, .	2.9	5
132	Nuclear isovector valence-shell excitation of ^{202}Hg . <i>Physical Review C</i> , 2019, 99, .	2.9	5
133	-Ray Spectroscopy of ^{34}Ar . <i>Physical Review C</i> , 2021, 103, .	2.9	5
134	Level structure of the ^{34}Ar nucleus. <i>Physical Review C</i> , 2021, 103, .	2.9	5
135	^{34}Ar and its relevance for nucleosynthesis in One novae. <i>Physical Review C</i> , 2021, 103, .	2.9	5
136	Identification of a high-spin isomer in ^{99}Mo . <i>Physical Review C</i> , 2007, 76, .	2.9	4
137	Properties of excited states in ^{77}Ge . <i>Physical Review C</i> , 2009, 80, .	2.9	4
138	MULTI-QUASIPARTICLE ISOMERS INVOLVING PROTON-PARTICLE AND NEUTRON-HOLE CONFIGURATIONS IN ^{131}I AND ^{133}I . <i>Modern Physics Letters A</i> , 2010, 25, 1800-1803.	1.2	4
139	NEW STRUCTURES IN ^{178}Hf AND COULOMB EXCITATION OF ISOMERS. <i>International Journal of Modern Physics E</i> , 2011, 20, 474-481.	1.0	4
140	High-spin proton alignments and evidence for a second band with enhanced deformation in ^{171}Hf . <i>Physical Review C</i> , 2012, 85, .	2.9	4
141	Preparation of isotopic antimony targets. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 1125-1128.	1.5	4
142	In-beam β -ray spectroscopy of ^{63}Mn . <i>Physical Review C</i> , 2016, 93, .	2.9	4
143	High-precision β -ray spectroscopy of the cardiac PET imaging isotope ^{82}Rb and its impact on dosimetry. <i>Physical Review C</i> , 2016, 93, .	2.9	4
144	^{209}Tl -ray spectroscopy of ^{209}Tl . <i>Physical Review C</i> , 2017, 95, .	2.9	4

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145	Revised decay properties of the key 93-keV resonance in the \hat{I}^3 β -ray assay of ^{137}Ba . Physical Review C, 2022, 105, .	2.9	4
146	Reaction and its influence on the MgAl cycle in astrophysical environments. Physical Review C, 2022, 105, .	2.9	4
147	Coulomb excitation of the ^{242m}Am isomer. Laser Physics, 2007, 17, 745-750.	1.2	3
148	Possible deformation evolution in the ^{13}C of ^{171}Re . Physical Review C, 2013, 88, .	2.9	3
149	Shape coexistence in ^{67}Co , $^{66,68,70,72}\text{Ni}$, and ^{71}Cu . AIP Conference Proceedings, 2015, , .	0.4	3
150	The polarization sensitivity of GRETINA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1025, 166155.	1.6	3
151	Search For Enhanced Alpha Preformation in the $N=Z+1$ Nuclei ^{113}Ba , ^{109}Xe , ^{105}Te . AIP Conference Proceedings, 2006, , .	0.4	2
152	FIRST \hat{I}^3 -RAY SPECTROSCOPY AND ISOSPIN SYMMETRY STUDY OF THE $N = Z - 2$ NUCLEUS ^{44}V . Modern Physics Letters A, 2010, 25, 2028-2029.	1.2	2
153	Multiquasiparticle states in the neutron-rich nucleus ^{174}Tm . Physical Review C, 2013, 88, .	2.9	2
154	Spectroscopy of ^{30}P and the abundance of ^{29}Si in presolar grains. Physical Review C, 2006, , .	2.9	2
155	Deformed shell gap: Rotational structures in ^{98}Gd . Physical Review C, 2006, , .	2.9	2
156	Microsecond and nanosecond isomers populated in fission reactions. AIP Conference Proceedings, 2006, , .	0.4	1
157	Prompt proton decay in the vicinity of ^{56}Ni . AIP Conference Proceedings, 2007, , .	0.4	1
158	HEAVY ION RADIATIVE CAPTURE OF $^{12}\text{C} + ^{12}\text{C}$. International Journal of Modern Physics E, 2008, 17, 2040-2043.	1.0	1
159	^{240}Pu target preparation on thin backing foils for GRETINA experiments using ATLAS. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 1697-1701.	1.5	1
160	Using $^{19}\text{F}(^3\text{He},t)^{19}\text{Ne}^*(\hat{I}^3)$ to study astrophysically important levels near the $^{18}\text{F}+p$ threshold. AIP Conference Proceedings, 2019, , .	0.4	1
161	Ground-state and decay properties of neutron-rich ^{106}Nb . Physical Review C, 2021, 103, .	2.9	1
162	SHELL MODEL STATES IN NEUTRON-RICH Ca AND Ar NUCLEI. , 2008, , .		0

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163	Indirect nuclear physics techniques for studying nova nucleosynthesis. , 2009, , .		0
164	Nuclear structure studies along the proton dripline at ATLAS. , 2011, , .		0
165	Low-spin structure of the N=82 nucleus Cs137. Physical Review C, 2018, 98, .	2.9	0
166	Intrinsic electric quadrupole moment of the $^{\infty}K^{\infty}$ isomeric state in ^{178}Hf . Physical Review C, 2020, 102, .	2.9	0
167	REARRANGEMENT OF PROTON SINGLE PARTICLE ORBITALS IN NEUTRON-RICH POTASSIUM ISOTOPES $^{\infty}$ SPECTROSCOPY OF 48K. , 2008, , .		0
168	STRUCTURE OF $^{\infty}\text{Fe}$ ISOTOPES AT THE LIMITS OF THE $^{\infty}\text{pf}$ -SHELL. , 2008, , .		0
169	EXOTIC BEHAVIOR AT ULTRAHIGH SPIN VALUES IN LIGHT RARE-EARTH N=90 NUCLEI. , 2013, , .		0
170	GAMMASPHERE AND ORRUBA: DUAL DETECTORS FOR EXPERIMENTAL STRUCTURE STUDIES. , 2013, , .		0
171	First $^{\infty}$ -Decay Studies with CARIBU Low-Energy Exotic Beams. , 2015, , .		0
172	Transfer Reactions with ^{134}Xe . , 2017, , .		0
173	structures in ^{155}Sm and ^{155}Gd . Physical		0
174	Algorithms of pulse shape analysis for Gammasphere under high count rate conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167113.	1.6	0