

Zhiyu Sun

List of Publications by Year in descending order

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79
papers

1,493
citations

361413
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330143
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79
all docs

79
docs citations

79
times ranked

1137
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass Measurements of Short-Lived ^{62}Ge and ^{63}Ge Isotopes. Physical Review Letters, 2010, 104, 112701.	7.8	156
2	Measurement of the cosmic ray proton spectrum from 40 GeV to 100 TeV with the DAMPE satellite. Science Advances, 2019, 5, eaax3793.	10.3	121
3	Neutron-Proton Asymmetry Dependence of Spectroscopic Factors in Ar Isotopes. Physical Review Letters, 2010, 104, 112701.	7.8	101
4	Mass Measurements of the Neutron-Deficient ^{40}Ti and ^{41}Ti Isotopes. Physical Review Letters, 2010, 104, 112701.	7.8	94
5	Mass Measurements of the Neutron-Deficient ^{62}Ge and ^{63}Ge Isotopes. Physical Review Letters, 2010, 104, 112701.	2.9	77
6	Measurement of the Cosmic Ray Helium Energy Spectrum from 70 GeV to 80 TeV with the DAMPE Space Mission. Physical Review Letters, 2021, 126, 201102.	7.8	66
7	MASS MEASUREMENT OF ^{45}Cr AND ITS IMPACT ON THE Ca-Sc CYCLE IN X-RAY BURSTS. Astrophysical Journal Letters, 2013, 766, L8.	8.3	65
8	Fragmentation cross sections and binding energies of neutron-rich nuclei. Physical Review C, 2007, 76, .	2.9	52
9	The plastic scintillator detector for DAMPE. Astroparticle Physics, 2017, 94, 1-10.	4.3	49
10	Elastic scattering of the proton drip-line nucleus ^{8}B off a ^{10}B nucleus. Physical Review C, 2013, 87, .	2.9	43
11	Fragmentation cross sections and binding energies of neutron-rich nuclei. Physical Review C, 2007, 76, .	2.9	39
12	Experimental study of two-proton correlated emission from ^{29}S excited states. Physical Review C, 2009, 80, .	2.9	33
13	Examining the exotic structure of the proton-rich nucleus ^{23}Al . Physical Review C, 2007, 76, .	2.9	32
14	PRESENT STATUS OF HIRFL IN LANZHOU. International Journal of Modern Physics E, 2006, 15, 1941-1956.	1.0	30
15	Elastic scattering of the proton drip line nuclei ^{7}Be and ^{7}B off a ^{10}B nucleus. Physical Review C, 2013, 87, .	2.9	28
16	Projectile fragmentation reactions of ^{40}Ar at 57 MeV/nucleon. Physical Review C, 2012, 85, .	2.9	26
17	Fragmentation cross sections and binding energies of neutron-rich nuclei. Physical Review C, 2007, 76, .	2.9	26
18	Charge measurement of cosmic ray nuclei with the plastic scintillator detector of DAMPE. Astroparticle Physics, 2019, 105, 31-36.	4.3	26

#	ARTICLE	IF	CITATIONS
19	Evidence for enhancement of the total reaction cross sections for P27,28 with a Si28 target and examination of possibly relevant mechanisms. Physical Review C, 2004, 69, .	2.9	25
20	Origin of odd-even staggering in fragment yields: Impact of nuclear pairing and shell structure on the particle-emission threshold energy. Physical Review C, 2014, 89, .	2.9	22
21	Projectile fragmentation of ^{86}Kr at 64 MeV/nucleon. Physical Review C, 2007, 76, .	2.9	19
22	\hat{I}^2 -decay of the neutron-rich nucleus N18. Physical Review C, 2005, 72, .	2.9	18
23	Observation of a new transition in the \hat{I}^2 -delayed neutron decay of N18. Physical Review C, 2007, 75, .	2.9	18
24	Investigation of two-proton emission from excited states of the odd-Z nucleus ^{28}P by complete-line	2.9	18
25	CONSTRAINTS ON THE DENSITY DEPENDENCE OF THE SYMMETRY ENERGY. International Journal of Modern Physics E, 2010, 19, 1631-1638.	1.0	18
26	Elastic scattering and breakup reactions of the proton drip-line nucleus ^{208}Pb on ^{8}B	2.9	17
27	Odd-even staggering in yields of neutron-deficient nuclei produced by projectile fragmentation. Physical Review C, 2016, 94, .	2.9	16
28	Measurement of Ni58(p,p)Ni58 elastic scattering at low momentum transfer by using the HIRFL-CSR heavy-ion storage ring. Physical Review C, 2019, 100, .	2.9	16
29	Extrapolation of neutron-rich isotope cross-sections from projectile fragmentation. Europhysics Letters, 2007, 79, 12001.	2.0	14
30	First application of combined isochronous and Schottky mass spectrometry: Half-lives of fully ionized Cr24+49 and Fe26+53 atoms. Physical Review C, 2018, 97, .	2.9	12
31	Radioactive ion beam line in Lanzhou. Science in China Series A: Mathematics, 1999, 42, 528-536.	0.5	10
32	Proposal for precision determination of 7.8 eV isomeric state in ^{229}Th at heavy ion storage ring. Physica Scripta, 2015, T166, 014012.	2.5	10
33	A large dynamic range readout design for the plastic scintillator detector of DAMPE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Angular Dependence in 2016, 927-944.	1.6	10
34	Angular dependence of proton-proton correlation functions in central $^{40}\text{Ca}+^{40}\text{Ca}$ and $^{40}\text{Ca}+^{40}\text{Ca}$ knockout reactions from ^{40}Ca	2.9	9
35	Reaction mechanism of ^{14}O at	2.9	9
36	breakup at the Fermi energy. Physical Review C, 2015, 91, .	2.9	9

#	ARTICLE	IF	CITATIONS
37	One-proton knockout from C^{16} at around 240 MeV/nucleon. Physical Review C, 2019, 100, .	2.9	9
38	Observations of Forbush Decreases of Cosmic-Ray Electrons and Positrons with the Dark Matter Particle Explorer. Astrophysical Journal Letters, 2021, 920, L43.	8.3	9
39	Study of proton resonances in ^{18}Ne via resonant elastic scattering of $^{17}\text{F} + p$ and its astrophysical implication in the stellar reaction of $^{14}\text{O}(\bar{\nu}_e, p)^{17}\text{F}$. European Physical Journal A, 2011, 47, 1.	2.5	8
40	Application of isochronous mass spectrometry for the study of angular momentum population in projectile fragmentation reactions. Physical Review C, 2017, 95, .	2.9	8
41	Single-neutron removal from ^{14}C Elastic scattering and breakup reactions of neutron-rich nucleus ^{15}C .	2.9	8
42	Elastic scattering and breakup reactions of neutron-rich nucleus ^{15}C on ^{208}Pb at 210 MeV. Physical Review C, 2022, 105, .	2.9	8
43	Rotational band built on the $12[660](i13^2)$ configuration in ^{179}Au . Physical Review C, 2004, 69, .	2.9	7
44	The properties of halo structure for ^{17}B . Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 781-787.	0.2	7
45	Observation of two- $\bar{\nu}_e$ emission from high-lying excited states of ^{18}Ne by complete-kinematics measurements. Physical Review C, 2010, 82, .	2.9	7
46	Identification of the 1^3 -vibrational band built on the $11/2^+ [505]$ orbital in ^{165}Er . Physical Review C, 2011, 84, .	2.9	7
47	^7Be , $^8\text{B} + ^{208}\text{Pb}$ Elastic Scattering at Above-Barrier Energies. Journal of Physics: Conference Series, 2013, 420, 012075.	0.4	7
48	Systematic trends of neutron skin thickness versus relative neutron excess. Physical Review C, 2021, 104, .	2.9	7
49	Two-proton Halo and Two-proton Emission Nucleus: ^{29}S . AIP Conference Proceedings, 2007, , .	0.4	6
50	Experimental research into the two-proton emissions from $^{17,18}\text{Ne}$, ^{28}P and $^{28,29}\text{S}$. Science China: Physics, Mechanics and Astronomy, 2011, 54, 73-80.	5.1	6
51	from ^{45}Ar		

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55	Scattering investigation of radioactive ^{13}B and ^{13}C α -particle induced reactions. Physical Review C, 2011, 84, .	2.9	5
56	Mass Measurements of Proton-rich Nuclides at the Cooler Storage Ring at IMP. , 2011, , .		4
57	Measurement of the longitudinal momentum distribution of ^{30}S after one-proton removal from ^{31}Cl . Physical Review C, 2011, 84, .	2.9	4
58	Study of proton resonances in ^{18}Ne via resonant elastic scattering of $^{17}\text{F}+p$ and its astrophysical implication. Science China: Physics, Mechanics and Astronomy, 2011, 54, 32-36.	5.1	3
59	Test of IMME in p-shell via direct mass measurements of nuclides. Journal of Physics: Conference Series, 2013, 420, 012054.	0.4	3
60	Charge-Changing Cross Section Measurements of pd -Shell Nuclei at around 300 MeV/nucleon at HIRFL-CSR. , 2020, , .		3
61	New experimental evidence for universal odd-even staggering in fragmentation cross sections. Physical Review C, 2022, 105, .	2.9	3
62	STATUS AND PROSPECTS OF HIRFL EXPERIMENTS ON NUCLEAR PHYSICS. International Journal of Modern Physics E, 2010, 19, 1802-1814.	1.0	2
63	A survey of space radiation damage to DAMPE-PSD. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 971, 164112.	1.6	2
64	POSSIBLE EXOTIC STRUCTURE IN LIGHT PROTON-RICH NUCLEI. Modern Physics Letters A, 2003, 18, 151-161.	1.2	1
65	MEASUREMENTS OF REACTION CROSS SECTION AND FRAGMENT MOMENTUM DISTRIBUTION FOR $N=10$ PROTON-RICH ISOTONES. International Journal of Modern Physics E, 2006, 15, 1523-1530.	1.0	1
66	PROJECTILE FRAGMENTATION OF $^{36,40}\text{Ar}$ INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1076-1083.	1.0	1
67	Nuclear physics program at HIRFL. , 2010, , .		1
68	Results of heavy ion beam tests of DAMPE plastic scintillator detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163139.	1.6	1
69	Nuclear Physics Programs at HIRFL-CSRm: A Status Report. AIP Conference Proceedings, 2006, , .	0.4	0
70	PROJECTILE FRAGMENTATION OF $^{36,40}\text{Ar}$ INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1815-1822.	1.0	0
71	Probing the equation of state of asymmetric nuclear matter with isospin diffusion and stopping in heavy-ion collisions. Journal of Physics: Conference Series, 2011, 312, 082044.	0.4	0
72	Recent experimental results of two-proton correlated emission from the excited states of $^{17,18}\text{Ne}$ and $^{28,29}\text{S}$. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Experimental Study of Two-Alpha Emission from High-Lying Excited States of $^{17,18}\text{Ne}$. Plasma Science and Technology, 2012, 14, 371-374.	1.5	0
74	Investigation of the $^{14}\text{O}(\bar{1},p)^{17}\text{F}$ stellar reaction via resonant elastic scattering of $^{17}\text{F}+p$. , 2012, , . <small>Publisher's Note: Elastic scattering of the proton drip-line nucleus</small>		0
75	^{8}B off a ^{208}Pb target at 170.3 MeV [Phys. Rev. C 87 , 044613 (2013)]. Physical Review C, 2013, 88,	2.9	0
76	Experimental Research on Two-Proton Emissions from the Excited States of Proton-Rich Nuclei Close to the Drip Line. , 2014, , .		0
77	ANGULAR DISPERSION BEHAVIOR IN HEAVY ION ELASTIC SCATTERING. , 2008, , .		0
78	STUDIES ON THE EXOTIC STRUCTURE OF ^{23}Al BY MEASUREMENTS OF $\bar{1}f_R$ AND $P//$. , 2008, , .		0
79	SIGNALS OF ENLARGED CORE IN ^{23}Al . , 2008, , .		0