

Zhiyu Sun

List of Publications by Year in descending order

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361413

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79
docs citations

79
times ranked

1137
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic scattering and breakup reactions of neutron-rich nucleus ^{11}Be on ^{208}Pb at 210 MeV. Physical Review Letters, 2021, 126, 201102. https://doi.org/10.1103/PhysRevLett.126.201102	2.9	8
2	Elastic scattering investigation of radioactive ^{13}O on ^{208}Pb at 210 MeV. Physical Review Letters, 2021, 126, 201103. https://doi.org/10.1103/PhysRevLett.126.201103	2.9	5
3	New experimental evidence for universal odd-even staggering in fragmentation cross sections. Physical Review C, 2022, 105, .	2.9	3
4	Elastic scattering and breakup reactions of the proton drip-line nucleus ^{8}B on ^{208}Pb at 238 MeV. Physical Review Letters, 2021, 126, 201104. https://doi.org/10.1103/PhysRevLett.126.201104	2.9	17
5	Design and Realization of China Tianwen-1 Energetic Particle Analyzer. Space Science Reviews, 2021, 217, 1.	8.1	5
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	Single-neutron removal from ^{14}C and ^{15}C at around 240 MeV/nucleon. Physical Review C, 2021, 104, .	2.9	8
8	Systematic trends of neutron skin thickness versus relative neutron excess. Physical Review C, 2021, 104, .	2.9	7
9	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
10	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
11	Charge-Changing Cross Section Measurements of ^{10}B -Shell Nuclei at around 300 MeV/nucleon at HIRFL-CSR. , 2020, , .		3
12	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
13	One-proton knockout from ^{16}C at around 240 MeV/nucleon. Physical Review C, 2019, 100, .	2.9	9
14	Measurement of $^{58}\text{Ni}(p,p)^{58}\text{Ni}$ elastic scattering at low momentum transfer by using the HIRFL-CSR heavy-ion storage ring. Physical Review C, 2019, 100, .	2.9	16
15	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
16	Two-neutron removal cross sections from ^{15}C at around 240 MeV/nucleon. Physical Review C, 2019, 99, .	2.9	5
17	Charge measurement of cosmic ray nuclei with the plastic scintillator detector of DAMPE. Astroparticle Physics, 2019, 105, 31-36.	4.3	26
18	First application of combined isochronous and Schottky mass spectrometry: Half-lives of fully ionized Cr^{24+49} and Fe^{26+53} atoms. Physical Review C, 2018, 97, .	2.9	12

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19	Scattering of the proton drip line nuclei ${}^7\text{Be}$ and ${}^8\text{B}$ on ${}^{10}\text{B}$ and ${}^{10}\text{C}$. Physical Review C, 2017, 95, .	2.9	28
20	Application of isochronous mass spectrometry for the study of angular momentum population in projectile fragmentation reactions. Physical Review C, 2017, 95, .	2.9	8
21	The plastic scintillator detector for DAMPE. Astroparticle Physics, 2017, 94, 1-10.	4.3	49
22	Odd-even staggering in yields of neutron-deficient nuclei produced by projectile fragmentation. Physical Review C, 2016, 94, .	2.9	16
23	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 Associated Equipment, 2016, 827, 79-84.	1.6	10
24	Study of projectile fragmentation reaction with isochronous mass spectrometry. Physica Scripta, 2015, T166, 014009.	2.5	5
25	Proposal for precision determination of 7.8 eV isomeric state in ${}^{229}\text{Th}$ at heavy ion storage ring. Physica Scripta, 2015, T166, 014012.	2.5	10
26	Reaction mechanism of ${}^8\text{O}$ on ${}^{10}\text{B}$ and ${}^{10}\text{C}$. Physical Review C, 2015, 91, .	2.9	9
27	Knockout reactions of ${}^{14}\text{O}$ on ${}^{10}\text{B}$ and ${}^{10}\text{C}$. Physical Review C, 2014, 90, .	2.9	9
28	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
29	Elastic scattering of the proton drip-line nucleus ${}^7\text{Be}$ on ${}^{10}\text{B}$ and ${}^{10}\text{C}$. Physical Review C, 2013, 87, .	2.9	26
30	Experimental Research on Two-Proton Emissions from the Excited States of Proton-Rich Nuclei Close to the Drip Line. , 2014, , .		0
31	Elastic scattering of the proton drip-line nucleus ${}^7\text{Be}$ off a ${}^{10}\text{B}$ target at 170.2 MeV. Physical Review C, 2013, 87, .	2.9	43
32	MASS MEASUREMENT OF ${}^{45}\text{Cr}$ AND ITS IMPACT ON THE Ca-Sc CYCLE IN X-RAY BURSTS. Astrophysical Journal Letters, 2013, 766, L8.	8.3	65
33	${}^7\text{Be}$, ${}^8\text{B}$ and ${}^{208}\text{Pb}$ Elastic Scattering at Above-Barrier Energies. Journal of Physics: Conference Series, 2013, 420, 012075.	0.4	7
34	Neutron-hole states in ${}^{45}\text{Ar}$ from ${}^{45}\text{Cr}$ and ${}^{45}\text{Mn}$. Physical Review C, 2013, 87, .		

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37	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
38	Angular dependence in proton-proton correlation functions in central $^{40}\text{Ca} + ^{40}\text{Ca}$ collisions. Physical Review C, 2012, 85, .	2.9	9
39	Projectile fragmentation reactions of ^{40}Ar at 57 MeV/nucleon. Physical Review C, 2012, 85, .	2.9	26
40	Investigation of the $^{14}\text{O}(\hat{1},p)^{17}\text{F}$ stellar reaction via resonant elastic scattering of $^{17}\text{F}+p$. , 2012, , .		0
41	Mass Measurements of the Neutron-Deficient ^{41}Ti . Physical Review C, 2011, 83, 044307.	7.8	94
42	Neutron spectroscopic factors of ^{41}Ar . Physical Review C, 2011, 83, 044308.	2.9	39
43	Neutron spectroscopic factors of ^{41}Ar . Physical Review C, 2011, 83, 044308.	7.8	156
44	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
45	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
46	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
47	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 $^{14}\text{O}(\hat{1}, p)^{17}\text{F}$. European Physical Journal A, 2011, 47, 1.	2.5	8
48	Mass Measurements of Proton-rich Nuclides at the Cooler Storage Ring at IMP. , 2011, , .		4
49	Recent experimental results of two-proton correlated emission from the excited states of $^{17,18}\text{Ne}$ and $^{28,29}\text{S}$. , 2011, , .		0
50	Identification of the $\hat{1}^3$ -vibrational band built on the $11/2^+ [505]$ orbital in ^{165}Er . Physical Review C, 2011, 84, .	2.9	7
51	Measurement of the longitudinal momentum distribution of ^{30}S after one-proton removal from ^{31}Cl . Physical Review C, 2011, 84, .	2.9	4
52	Observation of two- $\hat{1}^{\pm}$ emission from high-lying excited states of ^{18}Ne by complete-kinematics measurements. Physical Review C, 2010, 82, .	2.9	7
53	Isospin diffusion and equilibration for ^{41}Ar collisions at $^{41}\text{Ar} + ^{41}\text{Ar}$ collisions. Physical Review C, 2011, 83, 044309.	2.9	77
54	Investigation of two-proton emission from excited states of the odd- ^{41}Ar nucleus. Physical Review C, 2011, 83, 044310.	2.9	18

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55	PROJECTILE FRAGMENTATION OF $^{36,40}\text{Ar}$ INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1815-1822.	1.0	0
56	PROJECTILE FRAGMENTATION OF $^{36,40}\text{Ar}$ INDUCED REACTIONS. International Journal of Modern Physics E, 2010, 19, 1076-1083.	1.0	1
57	CONSTRAINTS ON THE DENSITY DEPENDENCE OF THE SYMMETRY ENERGY. International Journal of Modern Physics E, 2010, 19, 1631-1638.	1.0	18
58	STATUS AND PROSPECTS OF HIRFL EXPERIMENTS ON NUCLEAR PHYSICS. International Journal of Modern Physics E, 2010, 19, 1802-1814.	1.0	2
59	Nuclear physics program at HIRFL. , 2010, , .		1
60	Neutron-Proton Asymmetry Dependence of Spectroscopic Factors in Ar Isotopes. Physical Review Letters, 2010, 104, 112701.	7.8	101
61	Experimental study of two-proton correlated emission from ^{29}S excited states. Physical Review C, 2009, 80, .	2.9	33
62	The properties of halo structure for ^{17}B . Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 781-787.	0.2	7
63	ANGULAR DISPERSION BEHAVIOR IN HEAVY ION ELASTIC SCATTERING. , 2008, , .		0
64	STUDIES ON THE EXOTIC STRUCTURE OF ^{23}Al BY MEASUREMENTS OF β FR AND P//. , 2008, , .		0
65	SIGNALS OF ENLARGED CORE IN ^{23}Al . , 2008, , .		0
66	Two-proton Halo and Two-proton Emission Nucleus: ^{29}S . AIP Conference Proceedings, 2007, , .	0.4	6
67	Projectile fragmentation of ^{86}Kr at 64 MeV/nucleon. Physical Review C, 2007, 76, .	2.9	19
68	Fragmentation cross sections and binding energies of neutron-rich nuclei. Physical Review C, 2007, 76, .	2.9	52
69	Examining the exotic structure of the proton-rich nucleus ^{23}Al . Physical Review C, 2007, 76, .	2.9	32
70	Observation of a new transition in the β^2 -delayed neutron decay of ^{18}N . Physical Review C, 2007, 75, .	2.9	18
71	Extrapolation of neutron-rich isotope cross-sections from projectile fragmentation. Europhysics Letters, 2007, 79, 12001.	2.0	14
72	Nuclear Physics Programs at HIRFL-CSRm: A Status Report. AIP Conference Proceedings, 2006, , .	0.4	0

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73	PRESENT STATUS OF HIRFL IN LANZHOU. International Journal of Modern Physics E, 2006, 15, 1941-1956.	1.0	30
74	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
75	β^2 -decay of the neutron-rich nucleus N18. Physical Review C, 2005, 72, .	2.9	18
76	Evidence for enhancement of the total reaction cross sections for $P^{27,28}$ with a Si^{28} target and examination of possibly relevant mechanisms. Physical Review C, 2004, 69, .	2.9	25
77	Rotational band built on the $12[660](i13\hat{a}^2)$ configuration in Au^{179} . Physical Review C, 2004, 69, .	2.9	7
78	POSSIBLE EXOTIC STRUCTURE IN LIGHT PROTON-RICH NUCLEI. Modern Physics Letters A, 2003, 18, 151-161.	1.2	1
79	Radioactive ion beam line in Lanzhou. Science in China Series A: Mathematics, 1999, 42, 528-536.	0.5	10