

Praveen C Srivastava

List of Publications by Year in descending order

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papers

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times ranked

753
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Two Protons in the Decay of Zn^{54} . Physical Review Letters, 2011, 107, 102502.	7.8	83
2	The gallium anomaly revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 542-547.	4.1	47
3	Forbidden nonunique I^{π} decays and Discovery of an Exceptionally Strong α Decay Transition of Zr^{96} .	2.9	44
4	F_{α} -Decay Transition of Zr^{96} .	7.8	36
5	α Nuclear I^{π} -decay half-lives for $\{fp\}$ and $\{fpg\}$ shell nuclei. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 105104.	3.6	26
6	Experimental investigation of shell-model excitations of Zr^{89} up to high spin. Physical Review C, 2012, 86, .	2.9	25
7	Values among the Triplet Zr^{96} .	7.8	23
8	Structure of Te^{80} and Sn^{82} : The two-particle and two-hole spectrum of Sn^{82} .	2.9	19
9	Structure of Mg^{28} and influence of the neutron isospin symmetry in Mg^{28} .	2.9	19
10	values: Coulomb excitation study of Mg^{21} .	2.9	19
11	ground-state transition in the I^{π} decay of Zr^{96} .	2.9	19
12	Large-scale shell model calculations for odd-odd 58-62Mn isotopes. European Physical Journal A, 2010, 45, 185-192.	2.5	18
13	Structure of ^{71}Ga isotopes in the $f_{7/2}$ and $f_{5/2}$ spaces. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015102.	3.6	18
14	First-principles results for electromagnetic properties of s_d shell nuclei. Physical Review C, 2017, 96, .	2.9	16
15	decays of Na^{24} and Cl^{35} .	2.9	16
16	Coriolis contribution to excited states of deformed ^{163}Dy and ^{173}Yb nuclei with multiple mass parameters. Physical Review C, 2012, 85, .	2.9	15
17	Deformed shell model results for neutrinoless positron double beta decay of nuclei in the $A=60-90$ region. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 095107.	3.6	15
18	I^{π} -decay half-life of V^{50} calculated by the shell model. Physical Review C, 2014, 90, .	2.9	15

#	ARTICLE	IF	CITATIONS
19	<p>Second order $\beta\beta$ transition in neutron-rich Sn isotopes beyond $Z=50$. <i>Physical Review C</i>, 2018, 97, 044307.</p>	2.9	14
20	<p>Scaling of mirror asymmetry. <i>Physical Review C</i>, 2013, 87, 044307.</p>	2.9	14
21	<p>High-spin structures of ^{136}Xe, ^{137}Cs, ^{138}Ba, ^{139}La and ^{140}Ce: a shell model description. <i>Journal of Physics G: Nuclear and Particle Physics</i>, 2013, 40, 035106.</p>	3.6	13
22	<p>Large-scale shell model calculations for even-even ^{62}Fe isotopes. <i>Journal of Physics G: Nuclear and Particle Physics</i>, 2009, 36, 105106.</p>	3.6	12
23	<p>High-spin structures of ^{136}Cs and ^{137}Ba. <i>Physical Review C</i>, 2013, 87, 044307.</p>	2.9	12
24	<p>Shell model description of Gamow-Teller strengths in pf-shell nuclei. <i>European Physical Journal A</i>, 2016, 52, 1.</p>	2.5	12
25	<p>Shell-model study on event rates of lightest supersymmetric particles scattering off ^{83}Kr and ^{125}Te. <i>Physical Review D</i>, 2016, 93, 075002.</p>	4.7	12
26	<p>no-core shell model study of ^{10}B isotopes with realistic G-T transition strengths. <i>Physical Review C</i>, 2018, 97, 044307.</p>	2.9	12
27	<p>Comparison of shell model results for even-even ^{76}Se isotopes. <i>Physica Scripta</i>, 2013, 88, 045201.</p>	2.5	11
28	<p>calculations of Gamow-Teller strengths in the ^{76}Se shell. <i>Physical Review C</i>, 2018, 97, 044307.</p>	2.9	11
29	<p>$E_{\beta\beta}$ transition in ^{136}Cs and ^{137}Ba. <i>Physical Review C</i>, 2018, 97, 044307.</p>	2.9	10
30	<p>Spectroscopic factor strengths using <i>ab initio</i> approaches. <i>Physical Review C</i>, 2016, 94, 044307.</p>	2.9	10
31	<p>Shell-model results in fp and fpg $9/2$ spaces for $^{61,63,65}\text{Co}$ isotopes. <i>Physics of Atomic Nuclei</i>, 2011, 74, 971-978.</p>	0.4	9
32	<p>High spin band structure of ^{85}Sr. <i>Physical Review C</i>, 2014, 90, 044307.</p>	2.9	9
33	<p>Theoretical direct WIMP detection rates for transitions to the first excited state in ^{83}Kr. <i>Physical Review D</i>, 2015, 92, 075002.</p>	4.7	9
34	<p>Half-life determination of $T_z = -1$ and $T_z = -\frac{1}{2}$ proton-rich nuclei and the $\beta\beta$. <i>European Physical Journal A</i>, 2017, 53, 1.</p>	2.5	9
35	<p>g-factor measurement of the 2738 keV isomer in ^{135}La. <i>Physical Review C</i>, 2019, 99, 044307.</p>	2.9	9
36	<p>Metastable states from multinucleon excitations in ^{202}Tl and ^{203}Pb. <i>Physical Review C</i>, 2020, 102, 044307.</p>	2.9	9

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37	<i>Ab initio</i> no-core shell model study of ${}^{18-23}\text{O}$ and ${}^{18-24}\text{F}$ isotopes. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 055113.	3.6	9
38	Second-forbidden nonunique β^- decays of ${}^{59,60}\text{Fe}$: possible candidates for g_{A} sensitive electron spectral-shape measurements. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	9
39	Investigation of the high spin structure of $\text{Zr}88$. <i>Physical Review C</i> , 2014, 89, .	2.9	8
40	Shell model and deformed shell model spectroscopy of ${}^{62}\text{Ga}$. <i>European Physical Journal A</i> , 2015, 51, 1.	2.5	8
41	<i>Ab initio</i> no-core shell model study of neutron-rich nitrogen isotopes. <i>Progress of Theoretical and Experimental Physics</i> , 2019, 2019, .	6.6	8
42	Shell model results for nuclear $\hat{I}^2\hat{\alpha}^-$ -decay properties of sd-shell nuclei. <i>Progress of Theoretical and Experimental Physics</i> , 2020, 2020, .	6.6	8
43	Large-scale shell-model calculations for even-odd ${}^{61}\hat{\alpha}^-{}^{65}\text{Fe}$ isotopes. <i>Physics of Atomic Nuclei</i> , 2010, 73, 1656-1659.	0.4	7
44	NUCLEAR STRUCTURE STUDY WITH CORE EXCITATIONS IN Ni REGION: FOR <i>fpg</i> $9/2$ SPACE. <i>Modern Physics Letters A</i> , 2012, 27, 1250061.	1.2	7
45	Yrast structure of the shell model nucleus Nb . <i>Physical Review C</i> , 2014, 90, .	2.9	7
46	Shell-model description for the first-forbidden $\hat{I}^2\hat{\alpha}^-$ decay of ${}^{207}\text{Hg}$ into the one-proton-hole nucleus ${}^{207}\text{Tl}$. <i>Nuclear Physics A</i> , 2021, 1014, 122255.	1.5	7
47	Experimental investigation of high-spin states in Zr . <i>Physical Review C</i> , 2022, 105, .	2.9	7
48	One plus two-body random matrix ensembles with parity: Density of states and parity ratios. <i>Physical Review C</i> , 2011, 83, .	2.9	6
49	MONOPOLE SHIFT IN ODD NEUTRON-RICH F ISOTOPES: A SHELL MODEL DESCRIPTION. <i>International Journal of Modern Physics E</i> , 2011, 20, 637-643.	1.0	6
50	NUCLEAR STRUCTURE STUDY AROUND $Z = 28$. <i>International Journal of Modern Physics E</i> , 2012, 21, 1250007.	1.0	6
51	Ground-state, \hat{I}^2 and $K = 11/2\hat{\alpha}^- \hat{I}^3$ bands in ${}^{163, 165}\text{Er}$. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	6
52	Beta Decay Study of the $T_z = \hat{\alpha}^- 2$ ${}^{56}\text{Zn}$ Nucleus and the Determination of the Half-Lives of a Few fp-shell Nuclei. <i>Nuclear Data Sheets</i> , 2014, 120, 37-40.	2.2	6
53	Shell model results for ${}^{47}\hat{\alpha}^-{}^{58}\text{Ca}$ isotopes in the fp, <i>fpg</i> $9/2$ and ${}^{47}\hat{\alpha}^-{}^{52}\text{d}$ model spaces. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 065105.	3.6	6
54	Structure of Ca from the \hat{I}^2 and $\hat{I}^2\hat{\alpha}^-$ bands. <i>Physical Review C</i> , 2014, 90, .	2.9	6

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55	Shell model description of Ge isotopes. Journal of Physics: Conference Series, 2012, 387, 012020.	0.4	5
56	Structure of odd Ge isotopes with 40 < N < 50. Physics of Atomic Nuclei, 2013, 76, 692-701.	0.4	5
57	Inelastic WIMP-nucleus scattering to the first excited state in ^{125}Te . Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 115002.	3.6	5
58	Different seniority states of $^{119-126}\text{Sn}$ isotopes: shell-model description. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	5
59	Systematic shell-model study of Rn isotopes with $A = 207$ to 216 and isomeric states. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125103.	3.6	5
60	Level structure in the transitional nucleus ^{215}Fr . Physical Review C, 2022, 105, .	2.9	5
61	NUCLEAR WEAK RESPONSE FROM THE COMBINED STUDY OF \hat{I}^2 -DECAY AND CHARGE-EXCHANGE REACTION. International Journal of Modern Physics E, 2009, 18, 2134-2139.	1.0	4
62	SHELL MODEL DESCRIPTION OF $^{102-108}\text{Sn}$ ISOTOPES. International Journal of Modern Physics E, 2012, 21, 1250049.	1.0	4
63	Analysis of proton and neutron pair breakings: High-spin structures of $^{124-127}\text{Te}$ isotopes. Nuclear Physics A, 2015, 942, 1-17.	1.5	4
64	Polarization measurements and high-spin states in $^{86-88}\text{Sr}$. Nuclear Physics A, 2016, 955, 1-15.	1.5	4
65	$35, 37, 39\text{S}$ isotopes in sd space: Shell-model interpretation. Nuclear Physics A, 2017, 961, 68-77.	1.5	4
66	High-spin states in ^{133}Cs and the shell model description. Physical Review C, 2017, 95, .	2.9	4
67	Quadrupole properties of the eight $\text{SU}(3)$ algebras in (sdg_i) space. European Physical Journal: Special Topics, 2020, 229, 2389-2403.	2.6	4
68	High-spin structure of the ^{25}Na nuclei and ^{25}Ne . Physical Review C, 2022, 105, .	2.9	4
69	Minimal theory of isomerism- Q.Q and other interactions. Physica Scripta, 2021, 96, 065307.	2.5	4
70	Isomers in ^{203}Tl and core excitations built on a five-nucleon-hole structure. Physical Review C, 2022, 105, .	2.9	4
71	Systematic shell model study for $N = 82$ and $N = 126$ isotones and nuclear isomers. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 085101.	3.6	4
72	Identification of levels above 6- isomeric state in ^{66}Cu . European Physical Journal A, 2017, 53, 1.	2.5	3

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73	Triaxial rotation-axis flip triggered by an isoscalar $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{n} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle$ pair. Physical Review C, 2017, 95, .		
74	Intermediate structure and dipole bands in the transitional Ba134 nucleus. Physical Review C, 2020, 101, .	2.9	3
75	Deformed shell model results for two-neutrino double-beta decay of ^{82}Se . Canadian Journal of Physics, 2011, 89, 1101-1105.	1.1	2
76	STRUCTURE OF ODD $^{79,81,83}\text{Se}$ ISOTOPES WITH PROTON AND NEUTRON EXCITATIONS ACROSS $Z = 28$ AND $N = 40$. International Journal of Modern Physics E, 2013, 22, 1350091.	1.0	2
77	High-spin structures of $^{86,87,88,89}\text{Y}$ isotopes. Physics of Atomic Nuclei, 2014, 77, 1334-1342.	0.4	2
78	High-spin structures of $^{77,79,81,83}\text{As}$ isotopes. Modern Physics Letters A, 2015, 30, 1550093.	1.2	2
79	Bohr Hamiltonian with different mass parameters applied to band structures of Eu isotopes built on Nilsson orbitals. Pramana - Journal of Physics, 2016, 86, 1055-1066.	1.8	2
80	Ab initio description of collectivity for sd shell nuclei. Hyperfine Interactions, 2019, 240, 1.	0.5	2
81	Shell model study of high-spin states and band terminations in ^{67}As . Nuclear Physics A, 2020, 1002, 121989.	1.5	2
82	High-spin states of ^{218}Th . Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095103.	3.6	2
83	Evolution of nuclear structure through isomerism in ^{216}Fr . Physical Review C, 2022, 105, .	2.9	2
84	Publisher's Note: Identification of the slow $E3$ transition $^{136}\text{Cs} \rightarrow ^{136}\text{Cs}$ with conversion electrons [Phys. Rev. C84, 014329 (2011)]. Physical Review C, 2011, 84, .	2.9	1
85	Shell model results for $T_{1/2} = 1$ and $T_{1/2} = 0$ bands in ^{66}As . Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 125107.	3.6	1
86	Level structure above the 17^+ isomeric state in ^{152}Tm . Physical Review C, 2018, 98, .	2.9	1
87	Shell model and deformed shell model spectroscopy of ^{62}Ga . , 2015, 51, 1.		1
88	Gamow-Teller Transition Strengths for Selected ($\{fp\}$) Shell Nuclei. Acta Physica Polonica B, 2020, 51, 961.	0.8	1
89	Three-phonon multiplets in ^{116}Sn . Nuclear Physics A, 2022, 1018, 122375.	1.5	1
90	Parity Inversion and Different Properties of ^{11}Be Halo Nuclei. AIP Conference Proceedings, 2007, , .	0.4	0

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91	Neutron-rich nuclei around $N=16$ shell closure. , 2009, , .		0
92	2p radioactivity studies with a TPC. , 2011, , .		0
93	Large-scale shell-model calculations for 32-39P isotopes. , 2012, , .		0
94	Beta Decay Studies of Proton Rich Nuclei, an Important Ingredient for rp-Process Calculations. , 2017, , .		0
95	High spin states in ^{71}Ga *. Chinese Physics C, 2021, 45, 084001.	3.7	0
96	Shell-model study for GT-strengths corresponding to β^2 decay of ^{60}Ge and ^{62}Ge . Nuclear Physics A, 2022, 1017, 122344.	1.5	0
97	TWO-PROTON RADIOACTIVITY AS A TOOL FOR NUCLEAR STRUCTURE. , 2012, , .		0
98	High-spin Structure of ^{87}Sr and ^{87}Zr Nuclei: Shell-model Interpretation. Acta Physica Polonica B, 2016, 47, 2151.	0.8	0
99	High-spin Structures of the Near-spherical Nuclei $^{91,92}\text{Zr}$. Acta Physica Polonica B, 2017, 48, 807.	0.8	0
100	Shell Model Description of Spin-Dependent Elastic and Inelastic WIMP Scattering off ^{119}Sn and ^{121}Sb . Universe, 2022, 8, 309.	2.5	0