

Leszek Prochniak

List of Publications by Year in descending order

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58
papers

1,025
citations

516710

16
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414414

32
g-index

59
all docs

59
docs citations

59
times ranked

591
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond the relativistic mean-field approximation. III. Collective Hamiltonian in five dimensions. <i>Physical Review C</i> , 2009, 79, .	2.9	162
2	Quadrupole collective states within the Bohr collective Hamiltonian. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2009, 36, 123101.	3.6	105
3	A self-consistent approach to the quadrupole dynamics of medium heavy nuclei. <i>Nuclear Physics A</i> , 2004, 730, 59-79.	1.5	69
4	Collective quadrupole excitations in the $50 < Z, N < 82$ nuclei with the general Bohr Hamiltonian. <i>Nuclear Physics A</i> , 1999, 648, 181-202.	1.5	67
5	Experimental and theoretical investigations of quadrupole collective degrees of freedom in ^{104}Ru . <i>Nuclear Physics A</i> , 2006, 766, 25-51.	1.5	67
6	Electromagnetic properties of ^{100}Mo : Experimental results and theoretical description of quadrupole degrees of freedom. <i>Physical Review C</i> , 2012, 86, .	2.9	60
7	Development of axial asymmetry in the neutron-rich nucleus ^{110}Mo . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 704, 270-275.	4.1	43
8	Chiral bands in odd-odd nuclei with rigid or soft cores. <i>European Physical Journal A</i> , 2009, 42, 79.	2.5	41
9	Superdeformed and Triaxial States in ^{42}Ca . <i>Physical Review Letters</i> , 2016, 117, 062501.	7.8	39
10	The low-lying quadrupole collective excitations of Ru and Pd isotopes. <i>Nuclear Physics A</i> , 1999, 653, 71-87.	1.5	32
11	Low-spin structure of ^{113}Ru and ^{113}Rh . <i>European Physical Journal A</i> , 2007, 33, 307-316.	2.5	25
12	Deformation and mixing of coexisting shapes in neutron-deficient polonium isotopes. <i>Physical Review C</i> , 2015, 92, .	2.9	25
13	Quadrupole collectivity in ^{42}Ca from low-energy Coulomb excitation with ^{133}Ba . <i>Physical Review C</i> , 2019, 80, .	2.9	22
14	Quadrupole deformation of ^{130}Xe measured in a Coulomb excitation experiment. <i>Physical Review C</i> , 2020, 102, .	2.9	22
15	First Measurement of the g Factor in the Chiral Band: The Case of the ^{128}Cs Isotope. <i>Physical Review Letters</i> , 2020, 125, .	2.9	20
16	Description of ^{111}Ru within the Core-Quasiparticle Coupling model. <i>European Physical Journal A</i> , 2004, 22, 179-188.	2.5	19
17	Microscopic study of collective states of even-even molybdenum isotopes. <i>International Journal of Modern Physics E</i> , 2010, 19, 705-712.	1.0	13

#	ARTICLE	IF	CITATIONS
19	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of ^{182}Hg , ^{184}Hg , ^{186}Hg and ^{188}Hg . <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	13
20	Solution of universal nonrelativistic nuclear DFT equations in the Cartesian deformed harmonic-oscillator basis. (IX) HFODD (v3.06h): a new version of the program. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 102001.	3.6	13
21	Decay study of ^{114}Tc with a Penning trap. <i>Physical Review C</i> , 2011, 83, .	2.9	12
22	COLLECTIVE PROPERTIES OF STABLE EVEN-EVEN Cd ISOTOPES. <i>International Journal of Modern Physics E</i> , 2012, 21, 1250036.	1.0	12
23	THE RELATIVISTIC MEAN FIELD THEORY AND LOW ENERGY QUADRUPOLE COLLECTIVE EXCITATIONS. <i>International Journal of Modern Physics E</i> , 2004, 13, 217-224.	1.0	11
24	Odd-odd nuclei as the core-particle-hole systems and chirality. <i>European Physical Journal A</i> , 2011, 47, 1.	2.5	11
25	COLLECTIVE PAIRING HAMILTONIAN IN A SELF-CONSISTENT APPROACH. <i>International Journal of Modern Physics E</i> , 2007, 16, 352-359.	1.0	10
26	SHAPE EVOLUTION IN HEAVIEST STABLE EVEN-EVEN MOLYBDENUM ISOTOPES STUDIED VIA COULOMB EXCITATION. <i>International Journal of Modern Physics E</i> , 2011, 20, 443-450.	1.0	8
27	Microscopic description of collective properties of even-even Xe isotopes. <i>Physica Scripta</i> , 2015, 90, 114005.	2.5	8
28	Electromagnetic Properties of Chiral Bands in ^{124}Cs . <i>Acta Physica Polonica B</i> , 2015, 46, 689.	0.8	8
29	QUADRUPOLE COLLECTIVE HAMILTONIAN WITH PAIRING VARIABLES INCLUDED. <i>International Journal of Modern Physics E</i> , 2005, 14, 463-469.	1.0	7
30	COLLECTIVE EXCITATIONS OF TRANSACTINIDE NUCLEI IN A SELF-CONSISTENT MEAN FIELD THEORY. <i>International Journal of Modern Physics E</i> , 2008, 17, 160-167.	1.0	7
31	COMPARISON OF SELF-CONSISTENT SKYRME AND GOGNY CALCULATIONS FOR LIGHT Hg ISOTOPES. <i>International Journal of Modern Physics E</i> , 2010, 19, 787-793.	1.0	6
32	Quadrupole Deformation of ^{110}Cd Studied with Coulomb Excitation. <i>Acta Physica Polonica B</i> , 2020, 51, 789.	0.8	6
33	COLLECTIVE QUADRUPOLE EXCITATIONS WITHIN A SELF-CONSISTENT APPROACH. <i>International Journal of Modern Physics E</i> , 2006, 15, 379-386.	1.0	5
34	COLLECTIVE STATES IN LIGHT Kr ISOTOPES. <i>International Journal of Modern Physics E</i> , 2009, 18, 1044-1048.	1.0	5
35	Title is missing!. <i>Acta Physica Polonica B</i> , 2011, 42, 465.	0.8	5
36	Lifetime of the recently identified isomeric state at 3279 keV in the ^{136}Nd nucleus. <i>Physical Review C</i> , 2019, 100, .	2.9	5

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37	Search for supersymmetry in light nuclei. Nuclear Physics A, 1988, 487, 301-318.	1.5	4
38	SIGNATURES OF CHIRALITY IN THE CORE-PARTICLE-HOLE SYSTEMS. International Journal of Modern Physics E, 2011, 20, 364-372.	1.0	4
39	Binding energy of the sd shell nuclei in the supersymmetric model. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 705-715.	3.6	3
40	Collective Quadrupole Excitations in Transitional Nuclei. Physica Scripta, 2000, T88, 111.	2.5	3
41	Evidence of Rotational Behaviour in ^{120}Te Isotope. Acta Physica Polonica B, 2018, 49, 541.	0.8	3
42	Collective states of transitional nuclei. Physics of Atomic Nuclei, 2001, 64, 1005-1010.	0.4	2
43	Superdeformed Oblate Superheavy Nuclei in the Self-consistent Approach. Acta Physica Polonica B, 2013, 44, 287.	0.8	2
44	Supersymmetry and electromagnetic E2 transitions. Zeitschrift für Physik A, Atomic Nuclei, 1990, 335, 289-292.	0.3	1
45	Quadrupole collective dynamics of medium-“heavy even” even nuclei within the highly truncated diagonalization approach. Physica Scripta, 2014, 89, 054025.	2.5	1
46	Decay of the $\pi=8^+$ isomeric state in $\text{Nd}134$ and $\text{Pt}184$ studied by electron and $\hat{\text{I}}^3$ spectroscopy. Physical Review C, 2017, 95, .	2.9	1
47	Study of Octupole Collectivity in ^{146}Nd and ^{148}Sm Using the New Coulomb Excitation Set-up at ALTO. Acta Physica Polonica B, 2016, 47, 923.	0.8	1
48	Deformation in ^{120}Te Described Experimentally by Quadrupole Invariants. Acta Physica Polonica B, 2019, 50, 417.	0.8	1
49	Covariant density functional theory with spectroscopic properties and a microscopic theory of quantum phase transitions in nuclei. Journal of Physics: Conference Series, 2011, 267, 012043.	0.4	0
50	Low-spin levels in $\text{Sm}140$: Five 0^+ states and the question of softness against nonaxial deformation. Physical Review C, 2021, 104, .	2.9	0
51	Application of the Supersymmetric Model to Exotic Oxygen Nuclei. , 1997, , 325-330.		0
52	Pairing and Deformed Pairing Interaction for System of Protons and Neutrons. , 1998, , 401-409.		0
53	Nuclear Structure Study of ^{104}Pd by Coulomb Excitation at the Warsaw Heavy Ion Laboratory. Acta Physica Polonica B, 2016, 47, 917.	0.8	0
54	On the Collective Octupole Degrees of Freedom. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 191.	0.1	0

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55	Question of γ -softness of a Core and Possible Wobbling in the Light of Rich Experimental Data on ^{119}I . Acta Physica Polonica B, Proceedings Supplement, 2018, 11, 157.	0.1	0
56	Electromagnetic Properties of ^{45}Sc Studied by Low-energy Coulomb Excitation. Acta Physica Polonica B, 2018, 49, 567.	0.8	0
57	Structure of Krypton Isotopes using the Generalised Bohr Hamiltonian Method. Journal of Physics: Conference Series, 2020, 1643, 012147.	0.4	0
58	On Collective Octupole Degrees of Freedom – Next Pieces of the Formal Background. Acta Physica Polonica B, Proceedings Supplement, 2020, 13, 481.	0.1	0