Leszek Prochniak

List of Publications by Year
in descending order

58	1,025	516710 16	414414 32
papers	citations	h-index	g-index

59	59	59	591
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-spin levels in Sm140 : Five 0+ states and the question of softness against nonaxial deformation. Physical Review C, 2021, 104, .	2.9	0
2	Solution of universal nonrelativistic nuclear DFT equations in the Cartesian deformed harmonic-oscillator basis. (IX) HFODD (v3.06h): a new version of the program. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 102001.	3.6	13
3	Quadrupole deformation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Xe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>130</mml:mn></mml:mmultiscripts></mml:math> measured in a Coulomb-excitation experiment. Physical Review C, 2020, 102, .	2.9	22
4	Quadrupole Deformation of (^{110})Cd Studied with Coulomb Excitation. Acta Physica Polonica B, 2020, 51, 789.	0.8	6
5	Structure of Krypton Isotopes using the Generalised Bohr Hamiltonian Method. Journal of Physics: Conference Series, 2020, 1643, 012147.	0.4	0
6	On Collective Octupole Degrees of Freedom â€" Next Pieces of the Formal Background. Acta Physica Polonica B, Proceedings Supplement, 2020, 13, 481.	0.1	0
7	Lifetime of the recently identified <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>10</mml:mn><mml:mo>+</mml:mo></mml:msup></mml isomeric state at 3279 keV in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Nd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>136</mml:mn></mml:mmultiscripts></mml:math> nucleus. Physical Review C, 2019, 100, .	2.9	5
8	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of 182Hg, 184Hg, 186Hg and 188Hg. European Physical Journal A, 2019, 55, 1.	2.5	13
9	Deformation in ^{120}Te Described Experimentally by Quadrupole Invariants. Acta Physica Polonica B, 2019, 50, 417.	0.8	1
10	Quadrupole collectivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>42</mml:mn></mml:mmultiscripts></mml:math> from low-energy Coulomb excitation with AGATA. Physical Review C, 2018, 97, .	2.9	22
11	Chirality Factor in the Chiral Band: The Case of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cs</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>128</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Is	7.8	19
12	Evidence of Rotational Behaviour in ^{120}Te Isotope. Acta Physica Polonica B, 2018, 49, 541.	0.8	3
13	Question of $gamma $-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
14	Electromagnetic Properties of ^{45}Sc Studied by Low-energy Coulomb Excitation. Acta Physica Polonica B, 2018, 49, 567.	0.8	0
15	Decay of the Ï€=8â^' isomeric state in Nd134 and Pt184 studied by electron and Î³ spectroscopy. Physical Review C, 2017, 95, .	2.9	1
16	On the Collective Octupole Degrees of Freedom. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 191.	0.1	0
17	Superdeformed and Triaxial States in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>42</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2016, 117, 062501.	7.8	39
18	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

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19	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
20	Microscopic description of collective properties of even-even Xe isotopes. Physica Scripta, 2015, 90, 114005.	2.5	8
21	Deformation and mixing of coexisting shapes in neutron-deficient polonium isotopes. Physical Review C, 2015, 92, .	2.9	25
22	Electromagnetic Properties of Chiral Bands in ^{124}Cs. Acta Physica Polonica B, 2015, 46, 689.	0.8	8
23	Quadrupole collective dynamics of mediumâ€“heavy evenâ€“even nuclei within the highly truncated diagonalization approach. Physica Scripta, 2014, 89, 054025.	2.5	1
24	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mn>0</mml:mn><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:math>b in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ru</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>102</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and the evoluti	2.9	20
25	Superdeformed Oblate Superheavy Nuclei in the Self-consistent Approach. Acta Physica Polonica B, 2013, 44, 287.	0.8	2
26	Electromagnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>100</mml:mn></mml:msup></mml:math>Mo: Experimental results and theoretical description of quadrupole degrees of freedom. Physical Review C, 2012, 86, .	2.9	60
27	COLLECTIVE PROPERTIES OF STABLE EVENâ€“EVEN Cd ISOTOPES. International Journal of Modern Physics E, 2012, 21, 1250036.	1.0	12
28	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
29	Development of axial asymmetry in the neutron-rich nucleus 110Mo. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 270-275.	4.1	43
30	Odd-odd nuclei as the core-particle-hole systems and chirality. European Physical Journal A, 2011, 47, 1.	2.5	11
31	Decay study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Tc</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>114</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>with a Penning trap. Physical Review C, 2011, 83, .	2.9	12
32	SHAPE EVOLUTION IN HEAVIEST STABLE EVEN-EVEN MOLYBDENUM ISOTOPES STUDIED VIA COULOMB EXCITATION. International Journal of Modern Physics E, 2011, 20, 443-450.	1.0	8
33	SIGNATURES OF CHIRALITY IN THE CORE-PARTICLE-HOLE SYSTEMS. International Journal of Modern Physics E, 2011, 20, 364-372.	1.0	4
34	Title is missing!. Acta Physica Polonica B, 2011, 42, 465.	0.8	5
35	MICROSCOPIC STUDY OF COLLECTIVE STATES OF EVEN-EVEN MOLYBDENUM ISOTOPES. International Journal of Modern Physics E, 2010, 19, 705-712.	1.0	13
36	COMPARISON OF SELF-CONSISTENT SKYRME AND GOGNY CALCULATIONS FOR LIGHT Hg ISOTOPES. International Journal of Modern Physics E, 2010, 19, 787-793.	1.0	6

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37	COLLECTIVE STATES IN LIGHT Kr ISOTOPES. International Journal of Modern Physics E, 2009, 18, 1044-1048.	1.0	5
38	Chiral bands in odd-odd nuclei with rigid or soft cores. European Physical Journal A, 2009, 42, 79.	2.5	41
39	Quadrupole collective states within the Bohr collective Hamiltonian. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 123101.	3.6	105
40	Beyond the relativistic mean-field approximation. III. Collective Hamiltonian in five dimensions. Physical Review C, 2009, 79, .	2.9	162
41	COLLECTIVE EXCITATIONS OF TRANSACTINIDE NUCLEI IN A SELF-CONSISTENT MEAN FIELD THEORY. International Journal of Modern Physics E, 2008, 17, 160-167.	1.0	7
42	COLLECTIVE PAIRING HAMILTONIAN IN A SELF-CONSISTENT APPROACH. International Journal of Modern Physics E, 2007, 16, 352-359.	1.0	10
43	Low-spin structure of 113Ru and 113Rh. European Physical Journal A, 2007, 33, 307-316.	2.5	25
44	Experimental and theoretical investigations of quadrupole collective degrees of freedom in 104Ru. Nuclear Physics A, 2006, 766, 25-51.	1.5	67
45	COLLECTIVE QUADRUPOLE EXCITATIONS WITHIN A SELF-CONSISTENT APPROACH. International Journal of Modern Physics E, 2006, 15, 379-386.	1.0	5
46	QUADRUPOLE COLLECTIVE HAMILTONIAN WITH PAIRING VARIABLES INCLUDED. International Journal of Modern Physics E, 2005, 14, 463-469.	1.0	7
47	THE RELATIVISTIC MEAN FIELD THEORY AND LOW ENERGY QUADRUPOLE COLLECTIVE EXCITATIONS. International Journal of Modern Physics E, 2004, 13, 217-224.	1.0	11
48	Description of 111Ru within the Core-Quasiparticle Coupling model. European Physical Journal A, 2004, 22, 179-188.	2.5	13
49	A self-consistent approach to the quadrupole dynamics of medium heavy nuclei. Nuclear Physics A, 2004, 730, 59-79.	1.5	69
50	Collective states of transitional nuclei. Physics of Atomic Nuclei, 2001, 64, 1005-1010.	0.4	2
51	Collective Quadrupole Excitations in Transitional Nuclei. Physica Scripta, 2000, T88, 111.	2.5	3
52	Collective quadrupole excitations in the 50 < Z, N < 82 nuclei with the general Bohr Hamiltonian. Nuclear Physics A, 1999, 648, 181-202.	1.5	67
53	The low-lying quadrupole collective excitations of Ru and Pd isotopes. Nuclear Physics A, 1999, 653, 71-87.	1.5	32
54	Pairing and Deformed Pairing Interaction for System of Protons and Neutrons. , 1998, , 401-409.		0

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55	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
56	Application of the Supersymmetric Model to Exotic Oxygen Nuclei. , 1997, , 325-330.		0
57	Supersymmetry and electromagneticE2 transitions. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1990, 335, 289-292.	0.3	1
58	Search for supersymmetry in light nuclei. Nuclear Physics A, 1988, 487, 301-318.	1.5	4