

Wojciech SatuÅ,a

List of Publications by Year in descending order

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115
papers

4,081
citations

94433

37
h-index

118850

62
g-index

116
all docs

116
docs citations

116
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Odd-Even Staggering of Nuclear Masses: Pairing or Shape Effect?. Physical Review Letters, 1998, 81, 3599-3602.	7.8	227
2	The Lipkin-Nogami formalism for the cranked mean field. Nuclear Physics A, 1994, 578, 45-61.	1.5	168
3	Competition between $T = 0$ and $T = 1$ pairing in proton-rich nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 1-6.	4.1	165
4	Rotational Bands in the Doubly Magic Nucleus $N=56$. Physical Review Letters, 1999, 82, 3763-3766.	7.8	139
5	On the origin of the Wigner energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 103-109.	4.1	133
6	Quadrupole pairing interaction and signature inversion. Nuclear Physics A, 2000, 669, 119-134.	1.5	127
7	New features of superdeformed bands in Hg_{194} . Physical Review Letters, 1994, 72, 3150-3153.	7.8	119
8	Extended mean field description of deformed states in neutron deficient Cd- and Sn-nuclei. Physica Scripta, 1995, T56, 159-166.	2.5	115
9	Spin-orbit and tensor mean-field effects on spin-orbit splitting including self-consistent core polarizations. Physical Review C, 2008, 77, .	2.9	110
10	Coherence of nucleonic motion in superdeformed nuclei: Towards an understanding of identical bands. Physical Review C, 1994, 50, 2888-2892.	2.9	106
11	Structure of superdeformed states in Au- and Ra nuclei. Nuclear Physics A, 1991, 529, 289-314.	1.5	101
12	Odd-even staggering of binding energies as a consequence of pairing and mean-field effects. Physical Review C, 2001, 63, .	2.9	100
13	Competition between triaxial bands and highly deformed intruder bands around 180Os. Nuclear Physics A, 1990, 511, 324-344.	1.5	97
14	Prompt Proton Decay of a Well-Deformed Rotational Band in ^{58}Cu . Physical Review Letters, 1998, 80, 3018-3021.	7.8	97
15	Solution of the Skyrme-Hartree-Fock-Bogolyubov equations in the Cartesian deformed harmonic-oscillator basis.. Computer Physics Communications, 2012, 183, 166-192.	7.5	85
16	Solution of the Skyrme-Hartree-Fock-Bogolyubov equations in the Cartesian deformed harmonic-oscillator basis.. Computer Physics Communications, 2009, 180, 2361-2391.	7.5	84
17	Systematics of even-even $T_z = 1$ nuclei in the $A = 80$ region: High-spin rotational bands in ^{74}Kr , ^{78}Sr , and ^{82}Zr . Physical Review C, 1997, 56, 98-117.	2.9	83
18	Delayed alignment in the $N = Z$ nucleus ^{72}Kr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 217-222.	4.1	83

#	ARTICLE	IF	CITATIONS
19	A number projected model with generalized pairing interaction. Nuclear Physics A, 2000, 676, 120-142.	1.5	72
20	Landau-Zener crossing in superdeformed Hg193: Evidence for octupole correlations in superdeformed nuclei. Physical Review Letters, 1990, 65, 1547-1550.	7.8	71
21	Microscopic Structure of Fundamental Excitations in N=ZNuclei. Physical Review Letters, 2001, 87, 052504.	7.8	68
22	Rotations in Isospace: A Doorway to the Understanding of Neutron-Proton Superfluidity in N=ZNuclei. Physical Review Letters, 2001, 86, 4488-4491.	7.8	64
23	Mean-field description of high-spin states. Reports on Progress in Physics, 2005, 68, 131-200.	20.1	64
24	Additivity of Quadrupole Moments in Superdeformed Bands: Single-Particle Motion at Extreme Conditions. Physical Review Letters, 1996, 77, 5182-5185.	7.8	62
25	Excited superdeformed bands in ¹⁹¹ Hg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 44-49.	4.1	61
26	Empirical Proton-Neutron Interactions and Nuclear Density Functional Theory: Global, Regional, and Local Comparisons. Physical Review Letters, 2007, 98, 132502.	7.8	59
27	Isospin Mixing in Nuclei within the Nuclear Density Functional Theory. Physical Review Letters, 2009, 103, 012502.	7.8	58
28	Microscopic Calculations of Isospin-Breaking Corrections to Superallowed Beta Decay. Physical Review Letters, 2011, 106, 132502.	7.8	54
29	Global properties of the Skyrme-force-induced nuclear symmetry energy. Physical Review C, 2006, 74, .	2.9	50
30	Superdeformed bands in ⁸⁰ ~ ⁸³ Sr, ⁸² ~ ⁸⁴ Y, ^{83,84} Zr: Transition quadrupole moments, moments of inertia, and configuration assignments. Physical Review C, 2003, 67, .	2.9	48
31	Isospin-breaking corrections to superallowed Fermi $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">I^2 \langle \text{mml:math} \rangle \text{decay in isospin- and angular-momentum-projected nuclear density functional theory. Physical Review C, 2012, 86, .$	2.9	45
32	Blocking effects at super-deformed shape. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 351, 393-399.	4.1	44
33	Solution of the Skyrme-Hartree-Fock-Bogolyubov equations in the Cartesian deformed harmonic-oscillator basis. (VIII) hfodd (v2.73y): A new version of the program. Computer Physics Communications, 2017, 216, 145-174.	7.5	43
34	Electric-dipole transitions and octupole softness in odd-A rare-earth nuclei. Physical Review C, 1993, 47, 2008-2018.	2.9	42
35	Angular momentum projection of cranked Hartree-Fock states: Application to terminating bands in A=44 nuclei. Physical Review C, 2007, 76, .	2.9	39
36	Symmetry energy in nuclear density functional theory. European Physical Journal A, 2014, 50, 1.	2.5	38

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37	Isospin-symmetry breaking in masses of $N \neq Z$ nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 178-183.	4.1	38
38	Band crossings in intruder configurations of odd-A nuclei: A probe of the neutron-proton interaction?. Nuclear Physics A, 1993, 565, 573-595.	1.5	34
39	Band structure of the odd-even La^{125}, La^{127} nuclei. Physical Review C, 1996, 53, 137-150.	2.9	33
40	Mass number dependence of nuclear pairing. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 61-66.	4.1	33
41	Isospin-symmetry restoration within the nuclear density functional theory: Formalism and applications. Physical Review C, 2010, 81, .	2.9	33
42	Exact Solution of the Spin-Isospin Proton-Neutron Pairing Hamiltonian. Physical Review Letters, 2007, 99, 032501.	7.8	32
43	Pairing correlations in high-spin isomers. Physical Review C, 2005, 72, .	2.9	31
44	Global nuclear structure effects of the tensor interaction. Physical Review C, 2009, 80, .	2.9	31
45	Enhanced deformation in light Pr nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 443, 89-96.	4.1	29
46	Probing the nuclear energy functional at band termination. Physical Review C, 2005, 71, .	2.9	28
47	Quadrupole Moments of Highly Deformed Structures in the $A \sim 135$ Region: Probing the Single-Particle Motion in a Rotating Potential. Physical Review Letters, 2002, 88, 152501.	7.8	26
48	Superdeformed structures in Pb^{197}, Pb^{198} . Physical Review C, 1996, 54, 2253-2258.	2.9	25
49	Cranking in isospace. European Physical Journal A, 2004, 19, 33-44.	2.5	25
50	ANGULAR-MOMENTUM PROJECTION OF CRANKED SYMMETRY-UNRESTRICTED SLATER DETERMINANTS. International Journal of Modern Physics E, 2007, 16, 377-385.	1.0	25
51	Energy-density-functional calculations including proton-neutron mixing. Physical Review C, 2013, 88, .	2.9	24
52	Proton backbend in the doubly-magic superdeformed nucleus Gd^{144} . Physical Review Letters, 1994, 72, 1427-1430.	7.8	23
53	Neutron orbitals above the $N = 74$ shell gap at large deformation: spectroscopy in the superdeformed minimum of ^{133}Ce . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 438-443.	4.1	23
54	Comments on the nuclear symmetry energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 572, 152-158.	4.1	23

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55	High spin states in ^{45}Sc and coexistence of collective and non-collective structures in the odd-A nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 393, 285-289.	4.1	22
56	No-core configuration-interaction model for the isospin- and angular-momentum-projected states. <i>Physical Review C</i> , 2016, 94, .	2.9	21
57	Identification of excited states in the $T_z=+12$ nucleus ^{75}Rb : The quest for experimental signatures of collective neutron-proton correlations. <i>Physical Review C</i> , 1997, 56, R591-R595.	2.9	19
58	Simple regularization scheme for multireference density functional theories. <i>Physical Review C</i> , 2014, 90, .	2.9	19
59	Isobaric multiplet mass equation within nuclear density functional theory. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 03LT01.	3.6	19
60	Contrasting behavior in the rotational structure of the $T_z=1/2$ nuclei ^{73}Kr and ^{75}Rb : A possible fingerprint of $T=0$ neutron-proton pairing correlations. <i>Physical Review C</i> , 2007, 76, .	2.9	17
61	Origin of unit alignment in superdeformed bands in ^{190}A nuclei. <i>Physical Review C</i> , 1999, 60, .	2.9	16
62	High-spin intruder states in the fp-shell nuclei and isoscalar proton-neutron correlations. <i>Physical Review C</i> , 2006, 73, .	2.9	15
63	\hat{I}^2 -decay study within multireference density functional theory and beyond. <i>Physical Review C</i> , 2016, 93, .	2.9	15
64	Lifetimes of low-lying states in $^{125,127}\text{La}$ measured by the recoil distance method. <i>Physical Review C</i> , 1997, 55, 2794-2801.	2.9	13
65	Decay-out properties of a linked superdeformed band in ^{84}Zr . <i>Physical Review C</i> , 2006, 73, .	2.9	13
66	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
67	High-spin \hat{I}^3 -ray spectroscopy in the vicinity of ^{56}Ni . <i>Nuclear Physics A</i> , 1998, 630, 417-425.	1.5	12
68	Band structure in ^{79}Y and the question of $T=0$ pairing. <i>Physical Review C</i> , 1998, 58, R3037-R3041.	2.9	11
69	Isospin effects in $^N \rightarrow ^Z$ nuclei in extended density functional theory. <i>Physica Scripta</i> , 2016, 91, 023013.	2.5	11
70	High-spin phenomena in ^{174}Os . <i>Nuclear Physics A</i> , 1992, 545, 871-888.	1.5	10
71	Nuclear symmetry energy in relativistic mean field theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 633, 231-236.	4.1	10
72	Contradicting effective mass scalings in the single-particle spectra calculated using the Skyrme energy density functional method. <i>Physical Review C</i> , 2008, 78, .	2.9	10

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73	GLOBAL NUCLEAR STRUCTURE ASPECTS OF TENSOR INTERACTION. International Journal of Modern Physics E, 2009, 18, 808-815.	1.0	10
74	Gamow-Teller response in the configuration space of a density-functional-theory- [∞] -rooted no-core configuration-interaction model. Physical Review C, 2018, 97, .	2.9	10
75	Evidence for octupole softness of the superdeformed shape from band interactions in 193,4Hg. Nuclear Physics A, 1990, 520, c105-c113.	1.5	9
76	Shell model and mean-field description of band termination in the $A \approx 44$ nuclei. Physical Review C, 2007, 75, .	2.9	9
77	Shell structure fingerprints of tensor interaction. European Physical Journal A, 2009, 42, 577.	2.5	9
78	High-precision mass measurements and production of neutron-deficient isotopes using heavy-ion beams at IGISOL. Physical Review C, 2019, 100, .	2.9	9
79	Superdeformation in the Pb nuclei and the evolution of the dynamic moments of inertia. Physical Review C, 1994, 50, 1222-1225.	2.9	8
80	Pairing in nuclei. Physica Scripta, 2006, T125, 82-86.	2.5	8
81	ISOSPIN MIXING IN THE VICINITY OF THE N = Z LINE. International Journal of Modern Physics E, 2011, 20, 244-251.	1.0	8
82	Isospin Mixing Within the Symmetry Restored Density Functional Theory and Beyond. Acta Physica Polonica B, 2014, 45, 167.	0.8	8
83	Surface-peaked effective mass in the nuclear energy density functional and its influence on single-particle spectra. Physical Review C, 2010, 81, .	2.9	7
84	Title is missing!. Acta Physica Polonica B, 2011, 42, 415.	0.8	7
85	Spectroscopy of proton-rich 79Zr: Mirror energy differences in the highly-deformed fp _g shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135873.	4.1	7
86	Cullen et al. reply. Physical Review Letters, 1991, 67, 1175-1175.	7.8	6
87	Superdeformed bands and [∞] shears bands in 197Pb and 198Pb. Zeitschrift für Physik A, 1997, 358, 199-201.		6
88	PROBING SPIN FIELDS AND SPIN-ORBIT TERM OF THE LOCAL NUCLEAR ENERGY FUNCTIONAL AT BAND TERMINATION. International Journal of Modern Physics E, 2005, 14, 451-456.	1.0	6
89	ISOSPIN MIXING OF ISOSPIN-PROJECTED SLATER DETERMINANTS: FORMALISM AND PRELIMINARY APPLICATIONS. International Journal of Modern Physics E, 2009, 18, 958-964.	1.0	6
90	Mirror energy differences in $T = 1$ $^{-}$ shell nuclei within isospin-dependent density functional theory. Physical Review C, 2021, 103, .	2.9	6

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91	Cranking in isospace. European Physical Journal A, 2005, 25, 559-562.	2.5	5
92	PROBING THE EFFECTIVE NUCLEON-NUCLEON INTERACTION AT BAND TERMINATION. International Journal of Modern Physics E, 2007, 16, 360-376.	1.0	5
93	Using high-spin data to constrain spin-orbit term and spin-fields of Skyrme forces. European Physical Journal A, 2005, 25, 551-552.	2.5	4
94	TERMINATING STATES AS A UNIQUE LABORATORY FOR TESTING NUCLEAR ENERGY DENSITY FUNCTIONAL. International Journal of Modern Physics E, 2007, 16, 386-395.	1.0	4
95	Beta-Decay Studies in $N \leq Z$ Nuclei Using No-Core Configuration-Interaction Model. , 2015, , .		4
96	Pairing correlations in the rotating nucleus discussed within the generator coordinate method. Physical Review C, 1990, 41, 298-308.	2.9	3
97	Pairing correlations in rotating nuclei and the frequency-deformation scaling. Physica Scripta, 1990, 42, 515-521.	2.5	2
98	Wigner energy, odd-even mass staggering and the time-odd mean-fields. , 1999, , .		2
99	THE NUCLEAR ENERGY DENSITY FUNCTIONALS WITH MODIFIED RADIAL DEPENDENCE OF THE ISOSCALAR EFFECTIVE MASS. International Journal of Modern Physics E, 2010, 19, 794-799.	1.0	2
100	Strong-interaction Isospin-symmetry Breaking Within the Density Functional Theory. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 539.	0.1	2
101	Precision calculation of isospin-symmetry-breaking corrections to $T_{1/2}^{\beta}$ mirror decays using configuration-interaction framework built upon multireference charge-dependent density functional theory. Physical Review C, 2022, 105, .	2.9	2
102	New symmetry in many-body effective Hamiltonians: An example of rotating nuclei. Physical Review C, 1995, 51, 547-550.	2.9	1
103	Microscopic calculations of isospin mixing in $N \leq Z$ nuclei and isospin-symmetry-breaking corrections to the superallowed β^2 -decay. Physica Scripta, 2012, T150, 014032.	2.5	1
104	Mirror and Triplet Displacement Energies Within Nuclear DFT: Numerical Stability. Acta Physica Polonica B, 2017, 48, 259.	0.8	1
105	Nuclear Structure Calculations in ^{20}Ne with No-Core Configuration-Interaction Model. Acta Physica Polonica B, 2017, 48, 293.	0.8	1
106	In-beam β^3 -ray spectroscopy in the ground-state proton emitter. , 1998, , .		0
107	Discrete Linking Transitions For A Superdeformed Band In The $A \approx 80$ Region. AIP Conference Proceedings, 2005, , .	0.4	0
108	Linking transitions in the $A \approx 80$ region of superdeformation. Physica Scripta, 2006, T125, 119-122.	2.5	0

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109	MASS NUMBER DEPENDENCE OF THE SKYRME-FORCE-INDUCED NUCLEAR SYMMETRY ENERGY. International Journal of Modern Physics E, 2006, 15, 484-489.	1.0	0
110	Investigation of band termination in the lower fp shell within the cranked relativistic mean field model. , 2013, , .		0
111	Mean-Field Calculation Based on Proton-Neutron Mixed Energy Density Functionals. , 2015, , .		0
112	Mean-Field Treatment of Isobaric Excitations in N=Z Nuclei. , 2002, , 247-252.		0
113	On Introducing Charge-Symmetry-Breaking Terms to Nuclear Energy Density Functionals. Acta Physica Polonica B, 2020, 51, 611.	0.8	0
114	Using high-spin data to constrain spin-orbit term and spin-fields of Skyrme forces. , 2005, , 551-552.		0
115	Cranking in isospace. , 2005, , 559-562.		0