Wojciech SatuÅ‚a

List of Publications by Year
in descending order

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	Precision calculation of isospin-symmetry-breaking corrections to $T = 1$ mirror decays using configuration-interaction framework built upon multireference charge-dependent density functional theory. Physical Review C, 2022, 105, .	2.9	2
2	Mirror energy differences in $T = 1$, $f_{7/2}$-shell nuclei within isospin-dependent density functional theory. Physical Review C, 2021, 103, .	2.9	6
3	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
4	Spectroscopy of proton-rich 79Zr: Mirror energy differences in the highly-deformed fpg shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135873.	4.1	7
5	On Introducing Charge-Symmetry-Breaking Terms to Nuclear Energy Density Functionals. Acta Physica Polonica B, 2020, 51, 611.	0.8	0
6	Isobaric multiplet mass equation within nuclear density functional theory. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 03LT01.	3.6	19
7	High-precision mass measurements and production of neutron-deficient isotopes using heavy-ion beams at IGISOL. Physical Review C, 2019, 100, .	2.9	9
8	Isospin-symmetry breaking in masses of $N≈Z$ nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 178-183.	4.1	38
9	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
10	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
11	Mirror and Triplet Displacement Energies Within Nuclear DFT: Numerical Stability. Acta Physica Polonica B, 2017, 48, 259.	0.8	1
12	Nuclear Structure Calculations in ^{20}Ne with No-Core Configuration--Interaction Model. Acta Physica Polonica B, 2017, 48, 293.	0.8	1
13	No-core configuration-interaction model for the isospin- and angular-momentum-projected states. Physical Review C, 2016, 94, .	2.9	21
14	β-decay study within multireference density functional theory and beyond. Physical Review C, 2016, 93, .	2.9	15
15	Isospin effects in $N ≈ Z$ nuclei in extended density functional theory. Physica Scripta, 2016, 91, 023013.	2.5	11
16	Mean-Field Calculation Based on Proton-Neutron Mixed Energy Density Functionals. , 2015, , .		0
17	Strong-interaction Isospin-symmetry Breaking Within the Density Functional Theory. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 539.	0.1	2
18	Beta-Decay Studies in $N ≈ Z$ Nuclei Using No-Core Configuration-Interaction Model. , 2015, , .		4

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19	Isospin Mixing Within the Symmetry Restored Density Functional Theory and Beyond. Acta Physica Polonica B, 2014, 45, 167.	0.8	8
20	Simple regularization scheme for multireference density functional theories. Physical Review C, 2014, 90, .	2.9	19
21	Symmetry energy in nuclear density functional theory. European Physical Journal A, 2014, 50, 1.	2.5	38
22	Investigation of band termination in the lower fp shell within the cranked relativistic mean field model. , 2013, , .		0
23	Energy-density-functional calculations including proton-neutron mixing. Physical Review C, 2013, 88, .	2.9	24
24	Microscopic calculations of isospin mixing in $N \approx Z$ nuclei and isospin-symmetry-breaking corrections to the superallowed β-decay. Physica Scripta, 2012, T150, 014032.	2.5	1
25	Isospin-breaking corrections to superallowed Fermi β decay in isospin- and angular-momentum-projected nuclear density functional theory. Physical Review C, 2012, 86, .	2.9	45
26	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
27	Microscopic Calculations of Isospin-Breaking Corrections to Superallowed Beta Decay. Physical Review Letters, 2011, 106, 132502.	7.8	54
28	ISOSPIN MIXING IN THE VICINITY OF THE N = Z LINE. International Journal of Modern Physics E, 2011, 20, 244-251.	1.0	8
29	Title is missing!. Acta Physica Polonica B, 2011, 42, 415.	0.8	7
30	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
31	Isospin-symmetry restoration within the nuclear density functional theory: Formalism and applications. Physical Review C, 2010, 81, .	2.9	33
32	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
33	Isospin Mixing in Nuclei within the Nuclear Density Functional Theory. Physical Review Letters, 2009, 103, 012502.	7.8	58
34	ISOSPIN MIXING OF ISOSPIN-PROJECTED SLATER DETERMINANTS: FORMALISM AND PRELIMINARY APPLICATIONS. International Journal of Modern Physics E, 2009, 18, 958-964.	1.0	6
35	GLOBAL NUCLEAR STRUCTURE ASPECTS OF TENSOR INTERACTION. International Journal of Modern Physics E, 2009, 18, 808-815.	1.0	10
36	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

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37	Shell structure fingerprints of tensor interaction. European Physical Journal A, 2009, 42, 577.	2.5	9
38	Global nuclear structure effects of the tensor interaction. Physical Review C, 2009, 80, .	2.9	31
39	Spin-orbit and tensor mean-field effects on spin-orbit splitting including self-consistent core polarizations. Physical Review C, 2008, 77, .	2.9	110
40	Contradicting effective mass scalings in the single-particle spectra calculated using the Skyrme energy density functional method. Physical Review C, 2008, 78, .	2.9	10
41	ANGULAR-MOMENTUM PROJECTION OF CRANKED SYMMETRY-UNRESTRICTED SLATER DETERMINANTS. International Journal of Modern Physics E, 2007, 16, 377-385.	1.0	25
42	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
43	PROBING THE EFFECTIVE NUCLEON-NUCLEON INTERACTION AT BAND TERMINATION. International Journal of Modern Physics E, 2007, 16, 360-376.	1.0	5
44	Angular momentum projection of cranked Hartree-Fock states: Application to terminating bands inA~44nuclei. Physical Review C, 2007, 76, .	2.9	39
45	Shell model and mean-field description of band termination in theAâ^¼444 nuclei. Physical Review C, 2007, 75, .	2.9	9
46	Exact Solution of the Spin-Isospin Proton-Neutron Pairing Hamiltonian. Physical Review Letters, 2007, 99, 032501.	7.8	32
47	Contrasting behavior in the rotational structure of theTz=1/2nucleiKr73andRb75: A possible fingerprint ofT=0neutron-proton pairing correlations. Physical Review C, 2007, 76, .	2.9	17
48	Empirical Proton-Neutron Interactions and Nuclear Density Functional Theory: Global, Regional, and Local Comparisons. Physical Review Letters, 2007, 98, 132502.	7.8	59
49	Pairing in nuclei. Physica Scripta, 2006, T125, 82-86.	2.5	8
50	Linking transitions in the Aap80 region of superdeformation. Physica Scripta, 2006, T125, 119-122.	2.5	0
51	Nuclear symmetry energy in relativistic mean field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 231-236.	4.1	10
52	Decay-out properties of a linked superdeformed band inZr84. Physical Review C, 2006, 73, .	2.9	13
53	Global properties of the Skyrme-force-induced nuclear symmetry energy. Physical Review C, 2006, 74, .	2.9	50
54	High-spin intruder states in thefp-shell nuclei and isoscalar proton-neutron correlations. Physical Review C, 2006, 73, .	2.9	15

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55	MASS NUMBER DEPENDENCE OF THE SKYRME-FORCE-INDUCED NUCLEAR SYMMETRY ENERGY. International Journal of Modern Physics E, 2006, 15, 484-489.	1.0	0
56	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
57	Cranking in isospace. European Physical Journal A, 2005, 25, 559-562.	2.5	5
58	Discrete Linking Transitions For A Superdeformed Band In The A ≈ 80 Region. AIP Conference Proceedings, 2005, , .	0.4	0
59	Probing the nuclear energy functional at band termination. Physical Review C, 2005, 71, .	2.9	28
60	Pairing correlations in high-spin isomers. Physical Review C, 2005, 72, .	2.9	31
61	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
62	Mean-field description of high-spin states. Reports on Progress in Physics, 2005, 68, 131-200.	20.1	64
63	Using high-spin data to constrain spin-orbit term and spin-fields of Skyrme forces. , 2005, , 551-552.		0
64	Cranking in isospace. , 2005, , 559-562.		0
65	Cranking in isospace. European Physical Journal A, 2004, 19, 33-44.	2.5	25
66	Comments on the nuclear symmetry energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 572, 152-158.	4.1	23
67	Superdeformed bands in80−83Sr,82−84Y,83,84Zr:Transition quadrupole moments, moments of inertia, and configuration assignments. Physical Review C, 2003, 67, .	2.9	48
68	Quadrupole Moments of Highly Deformed Structures in theA≈135Region: Probing the Single-Particle Motion in a Rotating Potential. Physical Review Letters, 2002, 88, 152501.	7.8	26
69	Mass number dependence of nuclear pairing. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 61-66.	4.1	33
70	Mean-Field Treatment of Isobaric Excitations in N=Z Nuclei. , 2002, , 247-252.		0
71	Microscopic Structure of Fundamental Excitations inN=ZNuclei. Physical Review Letters, 2001, 87, 052504.	7.8	68
72	Rotations in Isospace: A Doorway to the Understanding of Neutron-Proton Superfluidity inN=ZNuclei. Physical Review Letters, 2001, 86, 4488-4491.	7.8	64

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73	Odd-even staggering of binding energies as a consequence of pairing and mean-field effects. Physical Review C, 2001, 63, .	2.9	100
74	Quadrupole pairing interaction and signature inversion. Nuclear Physics A, 2000, 669, 119-134.	1.5	127
75	A number projected model with generalized pairing interaction. Nuclear Physics A, 2000, 676, 120-142.	1.5	72
76	Rotational Bands in the Doubly Magic Nucleus ^{56}Ni. Physical Review Letters, 1999, 82, 3763-3766.	7.8	139
77	Origin of unit alignment in superdeformed bands in A≈190 nuclei. Physical Review C, 1999, 60, .	2.9	16
78	Wigner energy, odd-even mass staggering and the time-odd mean-fields. , 1999, , .		2
79	Enhanced deformation in light Pr nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 443, 89-96.	4.1	29
80	High-spin γ-ray spectroscopy in the vicinity of 56Ni. Nuclear Physics A, 1998, 630, 417-425.	1.5	12
81	In-beam γ-ray spectroscopy in the ground-state proton emitter. , 1998, , .		0
82	Odd-Even Staggering of Nuclear Masses: Pairing or Shape Effect?. Physical Review Letters, 1998, 81, 3599-3602.	7.8	227
83	Prompt Proton Decay of a Well-Deformed Rotational Band in58Cu. Physical Review Letters, 1998, 80, 3018-3021.	7.8	97
84	Band structure in79Yand the question ofT=0pairing. Physical Review C, 1998, 58, R3037-R3041.	2.9	11
85	Systematics of even-even Tz= 1 nuclei in the A= 80 region: High-spin rotational bands in 74Kr, 78Sr, and 82Zr. Physical Review C, 1997, 56, 98-117.	2.9	83
86	Lifetimes of low-lying states in125,127La measured by the recoil distance method. Physical Review C, 1997, 55, 2794-2801.	2.9	13
87	Identification of excited states in theTz=+12nucleus75Rb:The quest for experimental signatures of collective neutron-proton correlations. Physical Review C, 1997, 56, R591-R595.	2.9	19
88	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
89	High spin states in 45Sc and coexistence of collective and non-collective structures in the odd-A nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 393, 285-289.	4.1	22
90	Delayed alignment in the N = Z nucleus 72Kr. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 415, 217-222.	4.1	83

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91	Superdeformed bands and 'shears' bands in 197Pb and 198Pb. Zeitschrift Für Physik A, 1997, 358, 199-200.	1.9	6
92	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
93	Additivity of Quadrupole Moments in Superdeformed Bands: Single-Particle Motion at Extreme Conditions. Physical Review Letters, 1996, 77, 5182-5185.	7.8	62
94	Superdeformed structures inPb197,198. Physical Review C, 1996, 54, 2253-2258.	2.9	25
95	Band structure of the odd-evenLa125,La127nuclei. Physical Review C, 1996, 53, 137-150.	2.9	33
96	Blocking effects at super-deformed shape. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 351, 393-399.	4.1	44
97	Neutron orbitals above the N = 74 shell gap at large deformation: spectroscopy in the superdeformed minimum of 133Ce. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 438-443.	4.1	23
98	New symmetry in many-body effective Hamiltonians: An example of rotating nuclei. Physical Review C, 1995, 51, 547-550.	2.9	1
99	Extended mean field description of deformed states in neutron deficient Cd- and Sn-nuclei. Physica Scripta, 1995, T56, 159-166.	2.5	115
100	Superdeformation in the Pb nuclei and the evolution of the dynamic moments of inertia. Physical Review C, 1994, 50, 1222-1225.	2.9	8
101	New features of superdeformed bands inHg194. Physical Review Letters, 1994, 72, 3150-3153.	7.8	119
102	Proton backbend in the doubly-magic superdeformed nucleusGd144. Physical Review Letters, 1994, 72, 1427-1430.	7.8	23
103	Coherence of nucleonic motion in superdeformed nuclei: Towards an understanding of identical bands. Physical Review C, 1994, 50, 2888-2892.	2.9	106
104	The Lipkin-Nogami formalism for the cranked mean field. Nuclear Physics A, 1994, 578, 45-61.	1.5	168
105	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
106	Electric-dipole transitions and octupole softness in odd-Arare-earth nuclei. Physical Review C, 1993, 47, 2008-2018.	2.9	42
107	High-spin phenomena in 174Os. Nuclear Physics A, 1992, 545, 871-888.	1.5	10
108	Structure of superdeformed states in Auî—¸Ra nuclei. Nuclear Physics A, 1991, 529, 289-314.	1.5	101

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109	Cullenet al. reply. Physical Review Letters, 1991, 67, 1175-1175.	7.8	6
110	Excited superdeformed bands in 191Hg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 44-49.	4.1	61
111	Competition between triaxial bands and highly deformed intruder bands around 180Os. Nuclear Physics A, 1990, 511, 324-344.	1.5	97
112	Evidence for octupole softness of the superdeformed shape from band interactions in 193,4Hg. Nuclear Physics A, 1990, 520, c105-c113.	1.5	9
113	Pairing correlations in rotating nuclei and the frequency-deformation scaling. Physica Scripta, 1990, 42, 515-521.	2.5	2
114	Landau-Zener crossing in superdeformedHg193: Evidence for octupole correlations in superdeformed nuclei. Physical Review Letters, 1990, 65, 1547-1550.	7.8	71
115	Pairing correlations in the rotating nucleus discussed within the generator coordinate method. Physical Review C, 1990, 41, 298-308.	2.9	3