Witold Nazarewicz

List of Publications by Year
in descending order

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512 papers	29,725 citations	89 h-index	150 g-index
		3731	7745
517 all docs	517 docs citations	517 times ranked	4394 citing authors

#	Article	IF	Citations
1	Microscopic study of the high-spin behaviour in selected A â‰ƒ 80 nuclei. Nuclear Physics A, 1985, 435, 397-447.	1.5	753
2	Single-particle energies, wave functions, quadrupole moments and g-factors in an axially deformed woods-saxon potential with applications to the two-centre-type nuclear problems. Computer Physics Communications, 1987, 46, 379-399.	7.5	697
3	Coexistence in even-mass nuclei. Physics Reports, 1992, 215, 101-201.	25.6	616
4	Intrinsic reflection asymmetry in atomic nuclei. Reviews of Modern Physics, 1996, 68, 349-421.	45.6	599
5	Mean-field description of ground-state properties of drip-line nuclei: Pairing and continuum effects. Physical Review C, 1996, 53, 2809-2840.	2.9	525
6	Nuclear energy density optimization. Physical Review C, 2010, 82, .	2.9	385
7	Structure of superdeformed bands in the A â‰ˆ 150 mass region. Nuclear Physics A, 1989, 503, 285-330.	1.5	382
8	Shell structure of the superheavy elements. Nuclear Physics A, 1996, 611, 211-246.	1.5	374
9	The limits of the nuclear landscape. Nature, 2012, 486, 509-512.	27.8	363
10	Accurate nuclear radii and binding energies from a chiral interaction. Physical Review C, 2015, 91, .	2.9	354
11	Equilibrium deformations and excitation energies of single-quasiproton band heads of rare-earth nuclei. Nuclear Physics A, 1990, 512, 61-96.	1.5	333
12	Nuclear shell structure at particle drip lines. Physical Review Letters, 1994, 72, 981-984.	7.8	328
13	Analysis of octupole instability in medium-mass and heavy nuclei. Nuclear Physics A, 1984, 429, 269-295.	1.5	316
14	Shape coexistence and the effective nucleon-nucleon interaction. Physical Review C, 1999, 60, .	2.9	316
15	Nuclear energy density optimization: Large deformations. Physical Review C, 2012, 85, .	2.9	316
16	Highly deformed intruder bands in the Aâ‰ˆ130 mass region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 215, 211-217.	4.1	303
17	Information content of a new observable: The case of the nuclear neutron skin. Physical Review C, 2010, 81, .	2.9	298
18	Abundance and systematics of nuclear superdeformed states; relation to the pseudospin and pseudo-SU(3) symmetries. Physical Review Letters, 1987, 59, 1405-1408.	7.8	284

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19	Neutron and weak-charge distributions of the 48CaÂnucleus. Nature Physics, 2016, 12, 186-190.	16.7	268
20	Optimized Chiral Nucleon-Nucleon Interaction at Next-to-Next-to-Leading Order. Physical Review Letters, 2013, 110, 192502.	7.8	267
21	Systematic study of deformed nuclei at the drip lines and beyond. Physical Review C, 2003, 68, .	2.9	261
22	Natural-parity states in superdeformed bands and pseudo SU(3) symmetry at extreme conditions. Physical Review Letters, 1990, 64, 1654-1657.	7.8	258
23	Unexpectedly large charge radii of neutron-rich calcium isotopes. Nature Physics, 2016, 12, 594-598.	16.7	257
24	Odd-Even Staggering of Nuclear Masses: Pairing or Shape Effect?. Physical Review Letters, 1998, 81, 3599-3602.	7.8	227
25	Error estimates of theoretical models: a guide. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 074001.	3.6	227
26	Î²decay rates ofr-process waiting-point nuclei in a self-consistent approach. Physical Review C, 1999, 60, .	2.9	225
27	Gamow Shell Model Description of Neutron-Rich Nuclei. Physical Review Letters, 2002, 89, 042502.	7.8	213
28	Nuclear Shapes in Mean Field Theory. Annual Review of Nuclear and Particle Science, 1990, 40, 439-528.	10.2	212
29	Shape coexistence and triaxiality in the superheavy nuclei. Nature, 2005, 433, 705-709.	27.8	208
30	Shell model in the complex energy plane. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 013101.	3.6	208
31	Shell corrections of superheavy nuclei in self-consistent calculations. Physical Review C, 2000, 61, .	2.9	201
32	Structure of Odd-NSuperheavy Elements. Physical Review Letters, 1999, 83, 1108-1111.	7.8	198
33	Electric dipole polarizability and the neutron skin. Physical Review C, 2012, 85, .	2.9	198
34	Spherical proton emitters. Physical Review C, 1997, 56, 1762-1773.	2.9	187
35	Axially deformed solution of the Skyrmeâ€“Hartreeâ€“Fockâ€“Bogolyubov equations using the transformed harmonic oscillator basis. The program HFBTHO (v1.66p). Computer Physics Communications, 2005, 167, 43-63.	7.5	186
36	Shell stabilization of super- and hyperheavy nuclei without magic gaps. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 42-48.	4.1	185

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37	Local density approximation for proton-neutron pairing correlations: Formalism. Physical Review C, 2004, 69, .	2.9	182
38	Gamow-Teller strength and the spin-isospin coupling constants of the Skyrme energy functional. Physical Review C, 2002, 65, .	2.9	181
39	Equilibrium shapes and high-spin properties of the neutron-rich A â‰ˆ 100 nuclei. Nuclear Physics A, 1997, 617, 282-315.	1.5	176
40	Spontaneous fission modes and lifetimes of superheavy elements in the nuclear density functional theory. Physical Review C, 2013, 87, .	2.9	163
41	Colloquium : Superheavy elements: Oganesson and beyond. Reviews of Modern Physics, 2019, 91, .	45.6	163
42	Nuclear energy density optimization: Shell structure. Physical Review C, 2014, 89, .	2.9	162
43	Octupole shapes and shape changes at high spins in Ra and Th nuclei. Nuclear Physics A, 1987, 467, 437-460.	1.5	161
44	Shape coexistence and shape transitions in even-even Pt and Hg isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 183, 1-6.	4.1	160
45	Shell structure of the heaviest elements. Nuclear Physics A, 1994, 573, 356-394.	1.5	160
46	Intrinsic dipole moments in reflection-asymmetric nuclei. Nuclear Physics A, 1991, 533, 249-268.	1.5	159
47	Multiple superdeformed bands in 194Hg and their dynamical moments of inertia. Nuclear Physics A, 1990, 512, 178-188.	1.5	157
48	Rotational consequences of stable octupole deformation in nuclei. Nuclear Physics A, 1985, 441, 420-444.	1.5	150
49	Identical Bands in Deformed and Superdeformed Nuclei. Annual Review of Nuclear and Particle Science, 1995, 45, 485-541.	10.2	149
50	Variety of shapes in the mercury and lead isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 195-201.	4.1	147
51	Gamow shell model description of weakly bound nuclei and unbound nuclear states. Physical Review C, 2003, 67, .	2.9	146
52	Low-energy collective E1 mode in nuclei. Nuclear Physics A, 1986, 453, 58-76.	1.5	143
53	One-quasiparticle states in the nuclear energy density functional theory. Physical Review C, 2010, 81, .	2.9	140
54	Rotational Bands in the Doubly Magic NucleusN56i. Physical Review Letters, 1999, 82, 3763-3766.	7.8	139

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55	Interplay between proton and neutron S-bands in the Xe-Ba-Ce-region. Nuclear Physics A, 1989, 505, 337-351.	1.5	137
56	Self-consistent description of multipole strength in exotic nuclei: Method. Physical Review C, 2005, 71, .	2.9	137
57	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
58	Particle-number projection and the density functional theory. Physical Review C, 2007, 76, .	2.9	132
59	Bayesian approach to model-based extrapolation of nuclear observables. Physical Review C, 2018, 98, .	2.9	125
60	Nuclear ground-state properties from mean-field calculations. European Physical Journal A, 2002, 15, 21-26.	2.5	123
61	Î”I=4 bifurcation in a superdeformed band: Evidence for aC4symmetry. Physical Review Letters, 1993, 71, 4299-4302.	7.8	122
62	Structure of proton drip-line nuclei around doubly magicNi48. Physical Review C, 1996, 53, 740-751.	2.9	120
63	Ground-state properties of exotic Si, S, Ar and Ca isotopes. Nuclear Physics A, 1996, 597, 327-340.	1.5	118
64	Odd-even mass differences from self-consistent mean field theory. Physical Review C, 2009, 79, .	2.9	118
65	r-process nucleosynthesis: connecting rare-isotope beam facilities with the cosmos. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 083001.	3.6	115
66	Anomalous behavior of2+excitations around132Sn. Physical Review C, 2002, 66, .	2.9	114
67	A new region of intrinsic reflection asymmetry in nuclei around 145Ba?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 284-290.	4.1	113
68	Nuclear skins and halos in the mean-field theory. Physical Review C, 2000, 61, .	2.9	112
69	Shape evolution in the transitional gadolinium, dysprosium, erbium, and ytterbium nuclei. Physical Review C, 1985, 31, 298-301.	2.9	107
70	Future of nuclear fission theory. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 113002.	3.6	105
71	Hyperdeformations and clustering in the actinide nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 304-310.	4.1	104
72	Fission barriers of transfermium elements. Nuclear Physics A, 1983, 410, 254-270.	1.5	101

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73	Structure of superdeformed states in Auî—¸Ra nuclei. Nuclear Physics A, 1991, 529, 289-314.	1.5	101
74	High-Spin Consequences of Octupole Shape in Nuclei aroundTh222. Physical Review Letters, 1984, 52, 1272-1275.	7.8	100
75	Odd-even staggering of binding energies as a consequence of pairing and mean-field effects. Physical Review C, 2001, 63, .	2.9	100
76	From finite nuclei to the nuclear liquid drop: Leptodermous expansion based on self-consistent mean-field theory. Physical Review C, 2006, 73, .	2.9	99
77	Orbital Dependent Nucleonic Pairing in the Lightest Known Isotopes of Tin. Physical Review Letters, 2010, 105, 162502.	7.8	98
78	Neutron Drip Line in the Ca Region from Bayesian Model Averaging. Physical Review Letters, 2019, 122, 062502.	7.8	98
79	Competition between triaxial bands and highly deformed intruder bands around 180Os. Nuclear Physics A, 1990, 511, 324-344.	1.5	97
80	Prompt Proton Decay of a Well-Deformed Rotational Band in58Cu. Physical Review Letters, 1998, 80, 3018-3021.	7.8	97
81	Fission Barriers of Compound Superheavy Nuclei. Physical Review Letters, 2009, 102, 192501.	7.8	97
82	Parameters of the deformed Woods-Saxon potential outside A=110-210 nuclei. Journal of Physics G: Nuclear Physics, 1979, 5, 1359-1381.	0.8	96
83	Microscopic description of complex nuclear decay: Multimodal fission. Physical Review C, 2009, 80, .	2.9	96
84	Surface symmetry energy of nuclear energy density functionals. Physical Review C, 2011, 83, .	2.9	94
85	Uncertainty Quantification for Nuclear Density Functional Theory and Information Content of New Measurements. Physical Review Letters, 2015, 114, 122501.	7.8	94
86	How magic is the magic68Ninucleus?. Physical Review C, 2003, 67, .	2.9	93
87	Fine Structure in the Decay of Deformed Proton Emitters: Nonadiabatic Approach. Physical Review Letters, 2000, 84, 4549-4552.	7.8	92
88	Shell structure of exotic nuclei. Progress in Particle and Nuclear Physics, 2007, 59, 432-445.	14.4	92
89	Pairing interaction and self-consistent densities in neutron-rich nuclei. Nuclear Physics A, 2001, 693, 361-373.	1.5	90
90	First observation of a collective dipole rotational band in the Aâ¯¼200 mass region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 275, 247-251.	4.1	89

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91	Energy density functional for nuclei and neutron stars. Physical Review C, 2013, 87, .	2.9	89
92	Proton superfluidity and charge radii in proton-rich calcium isotopes. Nature Physics, 2019, 15, 432-436.	16.7	88
93	A systematic comparison between the Nilsson and Woods-Saxon deformed shell model potentials. Physica Scripta, 1989, 39, 196-220.	2.5	87
94	Octupole shapes and shape changes at high spins in theZâ‰Š58,Nâ‰Š88 nuclei. Physical Review C, 1992, 45, 2226-2237.	2.9	86
95	Closed shells at drip-line nuclei. Physica Scripta, 1995, T56, 15-22.	2.5	86
96	Theoretical description of deformed proton emitters: Nonadiabatic coupled-channel method. Physical Review C, 2000, 62, .	2.9	86
97	The limits of nuclear mass and charge. Nature Physics, 2018, 14, 537-541.	16.7	86
98	Nuclear Deformation: A Proton-Neutron Effect?. Physical Review Letters, 1988, 60, 2254-2257.	7.8	85
99	ISOL science at the Holifield Radioactive Ion Beam Facility. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 024002.	3.6	85
100	Octupole deformation in 142,143Ba and 144Ce: new band structures in neutron-rich Ba-isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 273-280.	4.1	84
101	Shape coexistence around 1644S28: the deformed N = 28 region 1565. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 335, 259-265.	4.1	81
102	Laser Spectroscopy of Neutron-Rich Tin Isotopes: A Discontinuity in Charge Radii across the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>82</mml:mn></mml:math> Shell Closure. Physical Review Letters, 2019, 122, 192502.	7.8	81
103	Shape coexistence and alignment processes in the light Pt and Au region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 169, 21-27.	4.1	80
104	Nuclear Quadrupole Moment ofF57efrom Microscopic Nuclear and Atomic Calculations. Physical Review Letters, 2001, 87, 062701.	7.8	80
105	Toward a global description of nuclear charge radii: Exploring the Fayans energy density functional. Physical Review C, 2017, 95, .	2.9	80
106	On the validity of the pseudo-spin concept for axially symmetric deformed nuclei. Nuclear Physics A, 1994, 567, 591-610.	1.5	79
107	Electron and Nucleon Localization Functions of Oganesson: Approaching the Thomas-Fermi Limit. Physical Review Letters, 2018, 120, 053001.	7.8	79
108	Charge radii of exotic potassium isotopes challenge nuclear theory and the magic character of Nâ€‰=â€‰32. Nature Physics, 2021, 17, 439-443.	16.7	79

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109	New cold and ultra hot binary and cold ternary spontaneous fission modes for 252Cf and new band structures with gammasphere. Progress in Particle and Nuclear Physics, 1997, 38, 273-287.	14.4	78
110	Theoretical aspects of science with radioactive nuclear beams. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 2007-2031.	3.4	78
111	Broyden's method in nuclear structure calculations. Physical Review C, 2008, 78, .	2.9	78
112	Deformed nuclear halos. Nuclear Physics A, 1997, 614, 44-70.	1.5	77
113	Dynamical symmetries, multiclustering, and octupole susceptibility in superdeformed and hyperdeformed nuclei. Physical Review Letters, 1992, 68, 154-157.	7.8	76
114	Impact of Nuclear Mass Uncertainties on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi></mml:math>Process. Physical Review Letters, 2016, 116, 121101.	7.8	76
115	Measurement and microscopic description of oddâ€“even staggering of charge radii of exotic copper isotopes. Nature Physics, 2020, 16, 620-624.	16.7	76
116	Band crossings and near-rigid rotation in 76Kr and 78Kr. Nuclear Physics A, 1989, 501, 367-400.	1.5	75
117	Lifetime measurements in the superdeformed band ofHg192. Physical Review Letters, 1990, 64, 3127-3130.	7.8	75
118	Proton-neutron coupling in the Gamow shell model: The lithium chain. Physical Review C, 2004, 70, .	2.9	75
119	Pairing-induced speedup of nuclear spontaneous fission. Physical Review C, 2014, 90, .	2.9	75
120	Microscopic modeling of mass and charge distributions in the spontaneous fission of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>240</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2016, 93, .	2.9	73
121	Application of the Randomâ€Element Isodisplacement Model to Longâ€Wavelength Optical Phonons in CdSe_xTe_{1â^'x} Mixed Crystals. Physica Status Solidi (B): Basic Research, 1974, 65, 193-202.	1.5	72
122	Information content of the low-energy electric dipole strength: Correlation analysis. Physical Review C, 2013, 87, .	2.9	72
123	Landau-Zener crossing in superdeformedHg193: Evidence for octupole correlations in superdeformed nuclei. Physical Review Letters, 1990, 65, 1547-1550.	7.8	71
124	Octupole instability induced by rotation in the nuclei 146,148Nd. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 200, 424-428.	4.1	70
125	Information Content of the Parity-Violating Asymmetry in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Pb</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>208</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2021, 127, 232501.	7.8	70
126	Proton emitters140Hoand141Ho: Probing the structure of unbound Nilsson orbitals. Physical Review C, 1999, 60, .	2.9	68

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127	Fission modes of mercury isotopes. Physical Review C, 2012, 86, .	2.9	68
128	Shape coexistence effects and quasiparticle alignment inSr81. Physical Review C, 1988, 38, 696-711.	2.9	67
129	Quadrupole collective inertia in nuclear fission: Cranking approximation. Physical Review C, 2011, 84, .	2.9	66
130	Spontaneous fission lifetimes from the minimization of self-consistent collective action. Physical Review C, 2013, 88, .	2.9	65
131	Microscopic origin of nuclear deformations. Nuclear Physics A, 1994, 574, 27-49.	1.5	64
132	New Spontaneous Fission Mode for252Cf: Indication of Hyperdeformed144,145,146Baat Scission. Physical Review Letters, 1996, 77, 32-35.	7.8	64
133	Gamow andR-matrix approach to proton emitting nuclei. Physical Review C, 2004, 69, .	2.9	63
134	Threshold effects in multichannel coupling and spectroscopic factors in exotic nuclei. Physical Review C, 2007, 75, .	2.9	63
135	Probing Sizes and Shapes of Nobelium Isotopes by Laser Spectroscopy. Physical Review Letters, 2018, 120, 232503.	7.8	63
136	Neutron radii and skins in the Hartree-Fock-Bogoliubov calculations. Zeitschrift FÃ¼r Physik A, 1996, 354, 27-35.	0.9	62
137	Additivity of Quadrupole Moments in Superdeformed Bands: Single-Particle Motion at Extreme Conditions. Physical Review Letters, 1996, 77, 5182-5185.	7.8	62
138	Density Matrix Renormalization Group Approach for Many-Body Open Quantum Systems. Physical Review Letters, 2006, 97, 110603.	7.8	62
139	Variation after particle-number projection for the Hartree-Fock-Bogoliubov method with the Skyrme energy density functional. Physical Review C, 2007, 76, .	2.9	62
140	Deformed coordinate-space Hartree-Fock-Bogoliubov approach to weakly bound nuclei and large deformations. Physical Review C, 2008, 78, .	2.9	62
141	Augmented Lagrangian method for constrained nuclear density functional theory. European Physical Journal A, 2010, 46, 85-90.	2.5	62
142	Excited superdeformed bands in 191Hg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 240, 44-49.	4.1	61
143	Modified two-potential approach to tunneling problems. Physical Review A, 2004, 69, .	2.5	61
144	Mean-field description of ground-state properties of drip-line nuclei: Shell-correction method. Physical Review C, 1994, 50, 2860-2873.	2.9	60

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145	First Observation of a Superdeformed Band in the N,Zâ‰ˆ40 Mass Region. Physical Review Letters, 1995, 74, 1946-1949.	7.8	60
146	Strong Angular Momentum Effects in Near-Barrier Fusion Reactions. Physical Review Letters, 1985, 54, 398-401.	7.8	59
147	Transition through triaxial shapes of the light samarium isotopes and the beta decay of136,138,140Eu. Physical Review C, 1987, 36, 1514-1521.	2.9	59
148	Alignment processes and shape variations in 184Pt. Nuclear Physics A, 1990, 513, 125-173.	1.5	59
149	Empirical Proton-Neutron Interactions and Nuclear Density Functional Theory: Global, Regional, and Local Comparisons. Physical Review Letters, 2007, 98, 132502.	7.8	59
150	Isospin Mixing in Nuclei within the Nuclear Density Functional Theory. Physical Review Letters, 2009, 103, 012502.	7.8	58
151	Collective oblate dipole rotational bands in 198Pb. Nuclear Physics A, 1993, 562, 121-156.	1.5	57
152	Shape coexistence around 1644S28: The deformed N = 28 region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 333, 303-309.	4.1	57
153	Landscape of Two-Proton Radioactivity. Physical Review Letters, 2013, 110, 222501.	7.8	57
154	Nuclear theory and science of the facility for rare isotope beams. Modern Physics Letters A, 2014, 29, 1430010.	1.2	57
155	Excitation-energy dependence of fission in the mercury region. Physical Review C, 2014, 90, .	2.9	57
156	From Calcium to Cadmium: Testing the Pairing Functional through Charge Radii Measurements of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>100</mml:mn><mml:mtext>â^’</mml:mtext><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></ Physical Review Letters, 2018, 121, 102501.	7.8	57
157	Triaxiality and isospin-forbidden E1 decays in the N = Z nucleus 64Ge. Nuclear Physics A, 1991, 535, 392-424.	1.5	56
158	High-spin octupole correlations in the N = 86, 146Nd and 148Sm nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 293-298.	4.1	56
159	Charge radii and neutron correlations in helium halo nuclei. Physical Review C, 2011, 84, .	2.9	55
160	Landscape of pear-shaped even-even nuclei. Physical Review C, 2020, 102, .	2.9	55
161	Monopole strength function of deformed superfluid nuclei. Physical Review C, 2011, 84, .	2.9	54
162	Microscopic Calculations of Isospin-Breaking Corrections to Superallowed Beta Decay. Physical Review Letters, 2011, 106, 132502.	7.8	54

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163	Shape coexistence effects and superdeformation inZr84. Physical Review C, 1987, 35, 1489-1501.	2.9	53
164	Reflection-asymmetric shapes in odd-A actinide nuclei. Nuclear Physics A, 1991, 529, 95-114.	1.5	52
165	On the Origin of Nuclear Clustering. Progress of Theoretical Physics Supplement, 2012, 196, 230-243.	0.1	52
166	Computational nuclear quantum many-body problem: The UNEDF project. Computer Physics Communications, 2013, 184, 2235-2250.	7.5	52
167	Quantified limits of the nuclear landscape. Physical Review C, 2020, 101, .	2.9	52
168	Third minima in thorium and uranium isotopes in a self-consistent theory. Physical Review C, 2013, 87, .	2.9	51
169	Discussion of the improved parametrisation of the Woods-Saxon potential for deformed nuclei. Nuclear Physics A, 1980, 341, 253-268.	1.5	50
170	Isospin mixing and the continuum coupling in weakly bound nuclei. Physical Review C, 2010, 82, .	2.9	50
171	Living on the edge of stability, the limits of the nuclear landscape. Physica Scripta, 2013, T152, 014022.	2.5	50
172	Quantified Gamow shell model interaction for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mi>s</mml:mi><mml:mi>d</mml:mi><mml:mi> -shell nuclei. Physical Review C, 2017, 96, .	2.9	50
173	On the shape consistency in the deformed shell-model approach. Nuclear Physics A, 1984, 420, 285-296.	1.5	49
174	Yrast transition strengths and band structure ofBr75. Physical Review C, 1985, 31, 828-842.	2.9	49
175	Ground-state shapes and spectroscopic properties of Z â^¼ 58, N â^¼ 88 nuclei. Nuclear Physics A, 1989, 496, 367-384.	1.5	49
176	Microscopic aspects of nuclear deformation. Nuclear Physics A, 1994, 578, 1-30.	1.5	48
177	Neutron-skin uncertainties of Skyrme energy density functionals. Physical Review C, 2013, 88, .	2.9	48
178	Low-energy collective modes of deformed superfluid nuclei within the finite-amplitude method. Physical Review C, 2013, 87, .	2.9	48
179	Recoil-Î±-fission and recoil-Î±â€“Î±-fission events observed in the reaction 48Ca + 243Am. Nuclear Physics A, 2016, 953, 117-138.	1.5	48
180	Shape variations, influence of pairing and alignment of angular momentum in superdeformed bands in the A â‰ƒ 150 region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 225, 208-214.	4.1	47

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181	New discrete basis for nuclear structure studies. Physical Review C, 1998, 58, 2092-2098.	2.9	47
182	High-spin states and shape evolution in70,72Se. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L135-L141.	3.6	46
183	Shell structure beyond the proton drip line studied via proton emission from deformed 141Ho. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 664, 52-56.	4.1	46
184	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>decay in the complex-energy shell model. Physical Review C, 2012, 86, .	2.9	46
185	Toward understanding the microscopic origin of nuclear clustering. Fortschritte Der Physik, 2013, 61, 66-79.	4.4	46
186	Systematic study of fission barriers of excited superheavy nuclei. Physical Review C, 2009, 80, .	2.9	45
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