

Jorge Piekarewicz

List of Publications by Year in descending order

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170
papers

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44069

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docs citations

171
times ranked

2609
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the possible existence of a soft dipole mode in ${}^8\text{He}$. Physical Review C, 2022, 105, .		3
2	Characterization of the inner edge of the neutron star crust. Physical Review C, 2022, 105, .	2.9	2
3	Implications of PREX-2 on the Equation of State of Neutron-Rich Matter. Physical Review Letters, 2021, 126, 172503.	7.8	295
4	Implications of PREX-2 on the electric dipole polarizability of neutron-rich nuclei. Physical Review C, 2021, 104, .	2.9	35
5	From noise to information: The transfer function formalism for uncertainty quantification in reconstructing the nuclear density. Physical Review C, 2021, 104, .	2.9	4
6	Charge Radius of Neutron-Deficient ${}^{54}\text{Ni}$ and Symmetry Energy Constraints Using the Difference in Mirror Pair Charge Radii. Physical Review Letters, 2021, 127, 182503.	7.8	29
7	Compressional-mode resonances in the molybdenum isotopes: Emergence of softness in open-shell nuclei near $A = 90$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 807, 135608.	4.1	14
8	Analytic insights on the information content of new observables. Physical Review C, 2020, 102, .	2.9	2
9	Weak charge and weak radius of ${}^{12}\text{C}$. Physical Review C, 2020, 102, .	2.9	5
10	Dirac oscillator: An alternative basis for nuclear structure calculations. Physical Review C, 2020, 102, .	2.9	7
11	Insights into nuclear saturation density from parity-violating electron scattering. Physical Review C, 2020, 102, .	2.9	16
12	Covariant Density Functional Theory in Nuclear Physics and Astrophysics. Annual Review of Nuclear and Particle Science, 2020, 70, 21-41.	10.2	18
13	GW190814: Impact of a 2.6 solar mass neutron star on the nucleonic equations of state. Physical Review C, 2020, 102, .	2.9	101
14	Implications of the ${}^{36}\text{Ca}$ and ${}^{36}\text{S}$ Neutron skins of atomic nuclei: per aspera ad astra. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 093003.	3.6	13
15	Neutron skins of atomic nuclei: per aspera ad astra. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 093003.	3.6	83
16	Reexamining the proton-radius problem using constrained Gaussian processes. Physical Review C, 2019, 99, .	2.9	24
17	Neutron-rich matter in heaven and on Earth. Physics Today, 2019, 72, 30-37.	0.3	25
18	Electroweak probes of ground state densities. Physical Review C, 2019, 100, .	2.9	19

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19	Impact of the neutron star crust on the tidal polarizability. <i>Physical Review C</i> , 2019, 99, .	2.9	48
20	Neutron Skins and Neutron Stars in the Multimessenger Era. <i>Physical Review Letters</i> , 2018, 120, 172702.	7.8	331
21	Validating neural-network refinements of nuclear mass models. <i>Physical Review C</i> , 2018, 97, .	2.9	39
22	Difference in proton radii of mirror nuclei as a possible surrogate for the neutron skin. <i>Physical Review C</i> , 2018, 97, .	2.9	21
23	Refining mass formulas for astrophysical applications: A Bayesian neural network approach. <i>Physical Review C</i> , 2017, 96, .	2.9	63
24	Emergence of low-energy monopole strength in the neutron-rich calcium isotopes. <i>Physical Review C</i> , 2017, 96, .	2.9	6
25	Pygmy and core polarization dipole modes in ^{206}Pb : Connecting nuclear structure to stellar nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 773, 20-25.	4.1	43
26	Neutron Star Matter Equation of State. , 2017, , 1075-1094.		1
27	Spectroscopy of $\text{Ti}54$ and the systematic behavior of low-energy octupole states in Ca and Ti isotopes. <i>Physical Review C</i> , 2017, 96, .	2.9	3
28	Nuclear mass predictions for the crustal composition of neutron stars: A Bayesian neural network approach. <i>Physical Review C</i> , 2016, 93, .	2.9	141
29	Sensitivity of the fusion cross section to the density dependence of the symmetry energy. <i>Physical Review C</i> , 2016, 93, .	2.9	24
30	Nuclear charge radii: density functional theory meets Bayesian neural networks. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 114002.	3.6	88
31	Power of two: Assessing the impact of a second measurement of the weak-charge form factor of ^{208}Pb . <i>Physical Review C</i> , 2016, 94, .	2.9	34
32	Relativistic density functional theory for finite nuclei and neutron stars. <i>International Review of Nuclear Physics</i> , 2016, , 625-658.	1.0	3
33	The Nuclear Physics of Neutron Stars. <i>Acta Physica Polonica B</i> , 2016, 47, 659.	0.8	1
34	Neutron Star Matter Equation of State. , 2016, , 1-20.		0
35	Neutron skin thickness from the measured electric dipole polarizability in ^{208}Pb and ^{120}Sn . <i>Physical Review C</i> , 2015, 92, .	2.9	175
36	Compactness of Neutron Stars. <i>Physical Review Letters</i> , 2015, 115, 161101.	7.8	26

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37	Nuclear breathing mode in neutron-rich nickel isotopes: Sensitivity to the symmetry energy and the role of the continuum. <i>Physical Review C</i> , 2015, 91, .	2.9	8
38	Information and statistics: a new paradigm in theoretical nuclear physics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 034018.	3.6	18
39	Two more or less. <i>Nature Physics</i> , 2015, 11, 303-304.	16.7	4
40	Nuclear collective excitations: A relativistic density functional approach. <i>International Journal of Modern Physics E</i> , 2015, 24, 1541003.	1.0	2
41	Searching for isovector signatures in the neutron-rich oxygen and calcium isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 748, 284-288.	4.1	95
42	The nuclear physics of neutron stars. , 2014, , .		5
43	Pulsar glitches: The crust may be enough. <i>Physical Review C</i> , 2014, 90, .	2.9	99
44	Relativistic mean field plus exact pairing approach to open shell nuclei. <i>Physical Review C</i> , 2014, 89, .	2.9	19
45	Building relativistic mean field models for finite nuclei and neutron stars. <i>Physical Review C</i> , 2014, 90, .	2.9	140
46	Symmetry energy constraints from giant resonances: A relativistic mean-field theory overview. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	42
47	A way forward in the study of the symmetry energy: experiment, theory, and observation. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014, 41, 093001.	3.6	226
48	Pygmies, giants, and skins as laboratory constraints on the equation of state of neutron-rich matter. <i>Journal of Physics: Conference Series</i> , 2014, 492, 012008.	0.4	4
49	Charged Ising model of neutron star matter. <i>Physical Review C</i> , 2013, 88, .	2.9	7
50	Information content of the weak-charge form factor. <i>Physical Review C</i> , 2013, 88, .	2.9	43
51	Electric dipole polarizability in ^{208}Pb : Insights from the droplet model. <i>Physical Review C</i> , 2013, 88, .	2.9	146
52	Has a Thick Neutron Skin in ^{208}Pb Been Ruled Out?. <i>Physical Review Letters</i> , 2013, 111, 162501.	7.8	64
53	Giant monopole energies from a constrained relativistic mean-field approach. <i>Physical Review C</i> , 2013, 88, .	2.9	11
54	Neutron skins and neutron stars. , 2013, , .		1

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55	Pygmies, Giants, and Skins. Journal of Physics: Conference Series, 2013, 420, 012143.	0.4	2
56	Neutron skins and neutron stars. Physical Review C, 2012, 86, .	2.9	59
57	Electric dipole polarizability and the neutron skin. Physical Review C, 2012, 85, .	2.9	198
58	Proton fraction in the inner neutron-star crust. Physical Review C, 2012, 85, .	2.9	20
59	Impact of spin-orbit currents on the electroweak skin of neutron-rich nuclei. Physical Review C, 2012, 86, .	2.9	33
60	Giant monopole resonance in even-A Cd isotopes, the asymmetry term in nuclear incompressibility, and the "softness" of Sn and Cd nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 447-450.	4.1	62
61	Pygmy resonances and neutron skins. Physical Review C, 2011, 83, .	2.9	132
62	Accurate calibration of relativistic mean-field models: Correlating observables and providing meaningful theoretical uncertainties. Physical Review C, 2011, 84, .	2.9	60
63	Garvey-Kelson relations for nuclear charge radii. European Physical Journal A, 2010, 46, 379-386.	2.5	31
64	Relativistic models of the neutron-star matter equation of state. Physical Review C, 2010, 82, .	2.9	37
65	Relativistic effective interaction for nuclei, giant resonances, and neutron stars. Physical Review C, 2010, 82, .	2.9	237
66	Sensitivity of the moment of inertia of neutron stars to the equation of state of neutron-rich matter. Physical Review C, 2010, 82, .	2.9	72
67	Do we understand the incompressibility of neutron-rich matter?. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064038.	3.6	105
68	Nuclear "bubble" structure in ^{34}Si . Physical Review C, 2009, 79, .	2.9	98
69	BUBBLES IN EXOTIC NUCLEI. International Journal of Modern Physics E, 2009, 18, 2009-2010.	1.0	10
70	Nuclear Physics of Neutron Stars. , 2009, , .		3
71	The Fascinating World of Neutron Stars. , 2009, , .		0
72	Parity Violating Electron Scattering and Implications for Neutron-Star Matter. , 2009, , .		1

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73	Incompressibility of neutron-rich matter. <i>Physical Review C</i> , 2009, 79, .	2.9	138
74	Virtues and flaws of the Pauli potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 035308.	2.1	7
75	Impact of the symmetry energy on the outer crust of nonaccreting neutron stars. <i>Physical Review C</i> , 2008, 78, .	2.9	55
76	On three topical aspects of the $N=28$ isotonic chain. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 467-477.	3.6	15
77	Why is the equation of state for tin so soft?. <i>Physical Review C</i> , 2007, 76, .	2.9	71
78	Validating relativistic models of nuclear structure against theoretical, experimental, and observational constraints. <i>Physical Review C</i> , 2007, 76, .	2.9	52
79	Parity violation, the neutron radius of lead, and neutron stars. <i>European Physical Journal A</i> , 2007, 32, 537-541.	2.5	4
80	Parity violation, the neutron radius of lead, and neutron stars. , 2007, , 233-237.		0
81	Insensitivity of the elastic proton- α -nucleus reaction to the neutron radius of ^{208}Pb . <i>Nuclear Physics A</i> , 2006, 778, 10-21.	1.5	26
82	Strange-quark contribution to the ratio of neutral- to charged-current cross sections in neutrino-nucleus scattering. <i>Physical Review C</i> , 2006, 73, .	2.9	17
83	Reduction of the Spin-Orbit Splittings at the $N=28$ Shell Closure. <i>Physical Review Letters</i> , 2006, 97, 092501.	7.8	120
84	Pygmy dipole resonance as a constraint on the neutron skin of heavy nuclei. <i>Physical Review C</i> , 2006, 73, .	2.9	153
85	Atomic parity nonconservation, neutron radii, and effective field theories of nuclei. <i>Physical Review C</i> , 2005, 71, .	2.9	68
86	Dynamical response of the nuclear α -pasta in neutron star crusts. <i>Physical Review C</i> , 2005, 72, .	2.9	129
87	Neutron-Rich Nuclei and Neutron Stars: A New Accurately Calibrated Interaction for the Study of Neutron-Rich Matter. <i>Physical Review Letters</i> , 2005, 95, 122501.	7.8	580
88	Compact objects for everyone: I. White dwarf stars. <i>European Journal of Physics</i> , 2005, 26, 695-709.	0.6	12
89	Spin-orbit splitting in low- j -neutron orbits and proton densities in the nuclear interior. <i>Physical Review C</i> , 2004, 69, .	2.9	60
90	Quasielastic neutrino-nucleus scattering. <i>Physical Review C</i> , 2004, 69, .	2.9	26

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91	Unmasking the nuclear matter equation of state. <i>Physical Review C</i> , 2004, 69, .	2.9	99
92	Nonuniform neutron-rich matter and coherent neutrino scattering. <i>Physical Review C</i> , 2004, 70, .	2.9	115
93	Neutrino-â€œpastaâ€•scattering: The opacity of nonuniform neutron-rich matter. <i>Physical Review C</i> , 2004, 69, .	2.9	191
94	Low-energy operators in effective theories. <i>Physical Review C</i> , 2003, 68, .	2.9	3
95	Relativistic mean-field study of neutron-rich nuclei. <i>Physical Review C</i> , 2003, 67, .	2.9	76
96	Lowâ€œMass Neutron Stars and the Equation of State of Dense Matter. <i>Astrophysical Journal</i> , 2003, 593, 463-471.	4.5	187
97	THE TRANSITION TO STRANGE MATTER IN THE STRING-FLIP MODEL. , 2003, , .		0
98	Constraining URCA cooling of neutron stars from the neutron radius of ^{208}Pb . <i>Physical Review C</i> , 2002, 66, .	2.9	143
99	Correlating the giant-monopole resonance to the nuclear-matter incompressibility. <i>Physical Review C</i> , 2002, 66, .	2.9	80
100	Modeling the strangeness content of hadronic matter. <i>Physical Review C</i> , 2002, 65, .	2.9	10
101	Novel methods for determining effective interactions for the nuclear shell model. <i>Physical Review C</i> , 2002, 66, .	2.9	5
102	The Lead Nucleus as a Miniature Surrogate for a Neutron Star. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2002, 16, 113-121.	0.4	0
103	Parity Violating Measurements of Neutron Densities: Implications for Neutron Stars. , 2002, , .		0
104	QUASIFREE PROCESSES FROM NUCLEI: MESON PHOTOPRODUCTION AND ELECTRON SCATTERING. , 2002, , .		0
105	Neutron Star Structure and the Neutron Radius of ^{208}Pb . <i>Physical Review Letters</i> , 2001, 86, 5647-5650.	7.8	713
106	Self-consistent description of nuclear compressional modes. <i>Physical Review C</i> , 2001, 64, .	2.9	69
107	Strangeness-changing response functions: an alternative approach to hypernuclear structure. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2001, 27, 41-62.	3.6	0
108	Neutron radii of ^{208}Pb and neutron stars. <i>Physical Review C</i> , 2001, 64, .	2.9	217

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109	Extracting the spectral function of ^4He from a relativistic plane-wave treatment. <i>Physical Review C</i> , 2001, 64, .	2.9	1
110	Relativistic approach to isoscalar giant resonances in ^{208}Pb . <i>Physical Review C</i> , 2000, 62, .	2.9	43
111	Density dependence of charge symmetry breaking. <i>Physical Review C</i> , 2000, 63, .	2.9	4
112	Mean-field theory for spin ladders using angular-momentum coupled bases. <i>Physical Review B</i> , 1999, 60, 9456-9467.	3.2	8
113	Relativistic treatment of hypernuclear decay. <i>Physical Review C</i> , 1999, 60, .	2.9	3
114	Strange matter in the string-flip model. <i>Physical Review C</i> , 1999, 60, .	2.9	1
115	Lessons to be learned from the coherent photoproduction of pseudoscalar mesons. <i>Physical Review C</i> , 1999, 60, .	2.9	7
116	Macroscopic parity violation and supernova asymmetries. <i>Nuclear Physics A</i> , 1998, 640, 281-289.	1.5	27
117	Nuclear dependence of the coherent photoproduction reaction in a relativistic approach. <i>Physical Review C</i> , 1998, 57, 2053-2056.	2.9	8
118	Perturbation theory for spin ladders using angular-momentum coupled bases. <i>Physical Review B</i> , 1998, 58, 9326-9334.	3.2	7
119	Dynamic spin response for Heisenberg ladders. <i>Physical Review B</i> , 1998, 57, 10260-10263.	3.2	23
120	Gardner, Horowitz, and Piekarewicz Reply:. <i>Physical Review Letters</i> , 1997, 78, 1826-1826.	7.8	0
121	Coherent photoproduction from nuclei in a relativistic impulse approximation approach. <i>Physical Review C</i> , 1997, 55, 2571-2576.	2.9	12
122	Plaquette basis for the study of Heisenberg ladders. <i>Physical Review B</i> , 1997, 56, 5366-5372.	3.2	20
123	The Okamoto-Nolen-Schiffer anomaly without p - n mixing. <i>Nuclear Physics A</i> , 1997, 612, 429-448.	1.5	5
124	Stability analysis of the instantaneous Bethe-Salpeter equation and the consequences for meson spectroscopy. <i>Physical Review C</i> , 1996, 53, 2449-2467.	2.9	11
125	Isospin-violating meson-nucleon vertices as an alternate mechanism of charge-symmetry breaking. <i>Physical Review C</i> , 1996, 53, 1143-1153.	2.9	10
126	Isospin violations in the pion-nucleon system. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 358, 27-33.	4.1	7

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127	On the Lorentz structure of the confining potential in the instantaneous Bethe-Salpeter equation. Nuclear Physics A, 1995, 585, 705-726.	1.5	23
128	Charge-Symmetry-Breaking Potentials from Isospin-Violating Meson-Baryon Coupling Constants. Physical Review Letters, 1995, 75, 2462-2465.	7.8	20
129	Comparison of K^+ and π^+ quasielastic scattering. Physical Review C, 1995, 51, 806-821.	2.9	4
130	Relativistic nuclear structure effects in quasielastic neutrino scattering. Physical Review C, 1995, 51, 2739-2749.	2.9	43
131	Quasielastic K^+ scattering. Physical Review C, 1995, 51, 669-679.	2.9	25
132	Quark-based description of nuclear matter with simulated annealing. Computers in Physics, 1994, 8, 223.	0.5	3
133	Relativistic treatment of spin-transfer observables in quasielastic (p, n') scattering. Physical Review C, 1994, 50, 2540-2552.	2.9	21
134	Medium modifications to the ρ -meson mass in the Walecka model. Physical Review C, 1994, 49, 1981-1988.	2.9	94
135	Relativistically generated asymmetry in the missing-momentum distribution from the $(e, e'p)$ reaction. Physical Review C, 1994, 50, 2822-2833.	2.9	20
136	Dynamical color correlations in a $SU(2)$ quark exchange model of nuclear matter. Physical Review C, 1994, 50, 1137-1153.	2.9	5
137	Relativistic models of the spin-isospin-weak quasielastic response. Nuclear Physics A, 1994, 577, 137-142.	1.5	1
138	(p, n) quasifree excitations in p -shell nuclei at 186 MeV. Physical Review C, 1994, 50, 2438-2448.	2.9	18
139	Spin-longitudinal to spin-transverse ratio in quasielastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 321-327.	4.1	17
140	Relativistic and nuclear structure effects in parity-violating quasielastic electron scattering. Physical Review C, 1993, 47, 2924-2936.	2.9	17
141	Comparison of the quasifree charge-exchange reaction for C^{12} and Fe^{54} . Physical Review C, 1993, 47, 260-266.	2.9	5
142	K^+ -nucleus quasielastic scattering. Physical Review Letters, 1993, 71, 2571-2574.	7.8	13
143	Off-shell behavior of the π^+ mixing amplitude. Physical Review C, 1993, 48, 1555-1561.	2.9	28
144	Levinson's theorem for Dirac particles. Physical Review C, 1993, 48, 2174-2181.	2.9	7

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145	Momentum dependence of the \bar{K}^0 mixing amplitude in a hadronic model. <i>Physical Review C</i> , 1993, 47, R2462-R2466.	2.9	64
146	High-momentum components in a relativistic mean-field ground state. <i>Physical Review C</i> , 1992, 45, 1654-1666.	2.9	2
147	Hadronic matter in a nontopological soliton model. <i>Physical Review C</i> , 1992, 45, 2963-2974.	2.9	2
148	Quark models of nuclear matter. <i>Nuclear Physics A</i> , 1992, 536, 669-696.	1.5	25
149	Nuclear to quark-matter transition in the string-flip model. <i>Physical Review C</i> , 1991, 44, 2753-2764.	2.9	14
150	Pion condensation in the Walecka model. <i>Physical Review C</i> , 1991, 43, 2631-2636.	2.9	11
151	Nuclear response functions in quasielastic electron scattering. <i>Nuclear Physics A</i> , 1990, 511, 461-486.	1.5	64
152	Vacuum polarization effects on the electromagnetic response of low-lying isoscalar excitations. <i>Nuclear Physics A</i> , 1990, 511, 487-506.	1.5	9
153	Correlation observables in $(p, p\hat{\epsilon}^{\text{TM}}\hat{\beta})$ reactions. <i>Physical Review C</i> , 1990, 41, 2277-2285.	2.9	11
154	Energy-dependent corrections to spin observables in nucleon-nucleus inelastic scattering. <i>Physical Review C</i> , 1989, 39, 1-7.	2.9	3
155	Quasielastic Electron Scattering and Vacuum Polarization. <i>Physical Review Letters</i> , 1989, 62, 391-394.	7.8	67
156	Relativistic treatment of (p, n) reactions and the (n, e^+) correlation function. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 205, 167-170.	4.1	2
157	Positron interactions with high-Z atoms at relativistic energies. <i>Physical Review A</i> , 1988, 38, 2274-2283.	2.5	4
158	Relativistic treatment of $(p, p\hat{\epsilon}^{\text{TM}}\hat{\beta})$ reactions. <i>Physical Review C</i> , 1988, 37, 719-723.	2.9	2
159	Energy Dependent Corrections to Spin Observables in Nucleon-Nucleus Scattering. , 1988, , 417-423.		0
160	Importance of the deuteron quadrupole moment in $^2\text{H}(d, \hat{\beta})^4\text{He}$. <i>Physical Review C</i> , 1987, 36, 875-878.	2.9	23
161	Relativistic treatment of $0^+(p, p\hat{\epsilon}^{\text{TM}})0^+$ transitions. <i>Physical Review C</i> , 1987, 35, 675-680.	2.9	6
162	Relativistic Impulse Approximation, Nuclear Currents, and the Spin-Difference Function. <i>Physical Review Letters</i> , 1985, 54, 2207-2210.	7.8	31

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163	Relativistic treatment of the spin difference functions in inelastic proton nucleus scattering. Physical Review C, 1985, 32, 949-960.	2.9	16
164	Relativistic treatment of spin observables in the excitation of the $1+T=0$ state in ^{12}C . Physical Review C, 1985, 32, 1693-1699.	2.9	6
165	Microscopic relativistic nucleon-nucleus inelastic scattering. Physical Review C, 1984, 30, 1604-1611.	2.9	22
166	Analytic expressions for the Dirac treatment of nucleon-nucleus scattering. Physical Review C, 1984, 29, 936-943.	2.9	6
167	Intermediate-energy-proton scattering, the Dirac equation, and nuclear structure. Physical Review C, 1983, 28, 2180-2182.	2.9	13
168	Dirac-eikonal scattering amplitude. Physical Review C, 1983, 28, 1663-1667.	2.9	31
169	Dirac theory of nucleon-nucleus collective excitation. Physical Review C, 1983, 28, 2392-2396.	2.9	8
170	Electric Dipole Polarizability of Neutron Rich Nuclei. Annalen Der Physik, 0, , 2100185.	2.4	1