Jian-You Guo

List of Publications by Year
in descending order

82 papers	1,417 citations	304743 22 h-index	361022 35 g-index
82 all docs	82 docs citations	82 times ranked	348 citing authors

#	Article	IF	Citations
1	Solution of the Dirac equation for the Woodsâ€“Saxon potential with spin and pseudospin symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 338, 90-96.	2.1	155
2	Pseudospin symmetry and the relativistic ring-shaped non-spherical harmonic oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 378-382.	2.1	67
3	Pseudospin symmetry in the relativistic harmonic oscillator. Nuclear Physics A, 2005, 757, 411-421.	1.5	63
4	Pseudospin symmetry in the resonant states of nuclei. Physical Review C, 2005, 72, .	2.9	59
5	Exploration of relativistic symmetry by the similarity renormalization group. Physical Review C, 2012, 85, .	2.9	59
6	Application of the complex scaling method in relativistic mean-field theory. Physical Review C, 2010, 82, .	2.9	54
7	Isospin dependence of pseudospin symmetry in nuclear resonant states. Physical Review C, 2006, 74, .	2.9	48
8	Radial basis function approach in nuclear mass predictions. Physical Review C, 2013, 88, .	2.9	41
9	Probing Resonances of the Dirac Equation with Complex Momentum Representation. Physical Review Letters, 2016, 117, 062502.	7.8	41
10	Nuclear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Î²</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>/EC decays in covariant density functional theory and the impact of isoscalar proton-neutron pairing. Physical Review C, 2013, 87, .	2.9	40
11	High precision nuclear mass predictions towards a hundred kilo-electron-volt accuracy. Science Bulletin, 2018, 63, 759-764.	9.0	36
12	Comparative study of nuclear masses in the relativistic mean-field model. Science China: Physics, Mechanics and Astronomy, 2012, 55, 2414-2419.	5.1	34
13	Resonant states of deformed nuclei in the complex scaling method. Physical Review C, 2012, 86, .	2.9	34
14	Probing the Symmetries of the Dirac Hamiltonian with Axially Deformed Scalar and Vector Potentials by Similarity Renormalization Group. Physical Review Letters, 2014, 112, 062502.	7.8	34
15	EXACT SOLUTION OF THE CONTINUOUS STATES FOR GENERALIZED ASYMMETRICAL HARTMANN POTENTIALS UNDER THE CONDITION OF PSEUDOSPIN SYMMETRY. International Journal of Modern Physics A, 2007, 22, 4825-4832.	1.5	31
16	Relativistic effect of spin and pseudospin symmetries. Physical Review C, 2012, 85, .	2.9	31
17	SYSTEMATIC ANALYSIS OF CRITICAL POINT NUCLEI IN THE RARE-EARTH REGION WITH RELATIVISTIC MEAN FIELD THEORY. Modern Physics Letters A, 2005, 20, 2711-2721.	1.2	27
18	Relativistic extension of the complex scaling method for resonant states in deformed nuclei. Physical Review C, 2014, 90, .	2.9	27

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19	Improved radial basis function approach with odd-even corrections. Physical Review C, 2016, 94, .	2.9	27
20	Relativistic extension of the complex scaled Green function method. Physical Review C, 2015, 92, .	2.9	26
21	Microscopic description of nuclear shape evolution from spherical to octupole-deformed shapes in relativistic mean-field theory. Physical Review C, 2010, 82, .	2.9	25
22	Nuclear<i>Î²</i>-decay half-lives in the relativistic point-coupling model. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 045108.	3.6	25
23	Probing resonances in the Dirac equation with quadrupole-deformed potentials with the complex momentum representation method. Physical Review C, 2017, 95, .	2.9	25
24	A relativistic extension of the complex scaling method using oscillator basis functions. Computer Physics Communications, 2010, 181, 550-556.	7.5	21
25	Resonant-continuum relativistic mean-field plus BCS in complex momentum representation. Physical Review C, 2018, 98, .	2.9	21
26	Probing single-proton resonances in nuclei by the complex-scaling method. Physical Review C, 2014, 89, .	2.9	19
27	Resonant states and pseudospin symmetry in the Dirac-Morse potential. Physical Review A, 2013, 87, .	2.5	18
28	Research on the halo in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>31</mml:mn></mml:mmultiscripts></mml:math> with the complex momentum representation method. Physical Review C, 2017, 95, .	2.9	18
29	Further investigation of relativistic symmetry with the similarity renormalization group. Physical Review C, 2013, 87, .	2.9	17
30	Probing resonances in deformed nuclei by using the complex-scaled Green's function method. Physical Review C, 2016, 94, .	2.9	16
31	Relativistic extension of the complex scaled Green's function method for resonances in deformed nuclei. European Physical Journal A, 2017, 53, 1.	2.5	16
32	Scattering of a Kleinâ€"Gordon particle by a HulthÃ©n potential. Canadian Journal of Physics, 2009, 87, 1021-1024.	1.1	15
33	Nuclear effective charge factor originating from covariant density functional theory. Physical Review C, 2013, 87, .	2.9	15
34	Systematic studies of the influence of single-particle resonances on neutron halo and skin in the relativistic-mean-field and complex-momentum-representation methods. Physical Review C, 2019, 99, .	2.9	14
35	Prediction of halo structure in nuclei heavier than <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>37</mml:mn></mml:mmultiscripts></mml:math> with the complex momentum representation method. Physical Review C, 2019, 99, .	2.9	13
36	SHAPE EVOLUTION FOR Ce ISOTOPES IN RELATIVISTIC MEAN-FIELD THEORY. International Journal of Modern Physics E, 2006, 15, 939-950.	1.0	12

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37	Pseudospin and spin symmetries in single particle resonant states in Pb isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135174.	4.1	12
38	Influences on the pseudospin symmetry from the different fields of mesons in deformed nuclei. European Physical Journal A, 2012, 48, 1.	2.5	11
39	Exploration of the exotic structure in Ce isotopes by the relativistic point-coupling model combined with complex momentum representation. Physical Review C, 2020, 102, .	2.9	11
40	Transmission resonance for a Dirac particle in a one-dimensional HulthÃ©n potential. Open Physics, 2009, 7, .	1.7	10
41	Interpretation of halo in ¹⁹C with complex momentum representation method. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 085105.	3.6	10
42	THE RELATIVISTIC DEVELOPMENT OF BASIS EXPANSION METHOD WITH COMPLEX SCALING FOR THE DESCRIPTION OF BOUND AND RESONANT STATES. International Journal of Modern Physics E, 2010, 19, 1357-1370.	1.0	9
43	Further investigation of relativistic symmetry in deformed nuclei by similarity renormalization group. Physical Review C, 2015, 91, .	2.9	9
44	Role of quadrupole deformation and continuum effects in the â€œisland of inversionâ€•nuclei <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">F</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>28</mml:mn><mml:mo>,</mml:mo><mml:mn>29</mml:mn><mml:mo>,</mml:mo><mml:mn>31</mml:mn> Physical Review C, 2021, 104, .	2.9	9
45	SHAPE PHASE TRANSITIONS AND POSSIBLE E(5) SYMMETRY NUCLEI FOR Ti ISOTOPES. International Journal of Modern Physics E, 2008, 17, 539-548.	1.0	8
46	Research on the contributions from different fields of mesons and photons to pseudospin symmetry. European Physical Journal A, 2010, 45, 179-183.	2.5	8
47	SYSTEMATIC ANALYSIS OF SHAPE EVOLUTION FOR Mo ISOTOPES WITH RELATIVISTIC MEAN FIELD THEORY. Modern Physics Letters A, 2010, 25, 1177-1186.	1.2	7
48	Pseudospin symmetry in resonant states and its dependence on the shape of potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136829.	4.1	7
49	SPIN SYMMETRY IN THE RESONANT STATES OF NUCLEI. International Journal of Modern Physics E, 2012, 21, 1250096.	1.0	6
50	Next-to-leading order QCD corrections to Higgs boson decay to quarkonium plus a photon. Chinese Physics C, 2016, 40, 123105.	3.7	6
51	Stark resonances of a hydrogen-like atom under exponential cosine screened Coulomb potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 025001.	1.5	6
52	Research on deformed exotic nuclei by relativistic mean field theory in complex momentum representation. Physical Review C, 2021, 104, .	2.9	6
53	Tensor coupling effect on relativistic symmetries. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	5
54	Reply to: â€œComment on: â€˜Solution of the Dirac equation for the Woodsâ€"Saxon potential with spin and pseudospin symmetryâ€™â€‰â€•[Phys. Lett. A 350 (2005) 421]. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 425-426.	2.1	4

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55	Influence of binding energies of electrons on nuclear mass predictions. Chinese Physics C, 2016, 40, 074102.	3.7	4
56	Exploration of resonances by using complex momentum representation. Chinese Physics C, 2017, 41, 044104.	3.7	4
57	Investigation of exotic structure in ^{34}Na by complex momentum representation combined with Greenâ€™s function method. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 085105.	3.6	4
58	Nuclear uncertainties in the s-process simulation. Science China: Physics, Mechanics and Astronomy, 2013, 56, 859-865.	5.1	3
59	Associated production of Î¥(1S)W at LHC in next-to-leading order QCD. Journal of High Energy Physics, 2013, 2013, 1.	4.7	3
60	Resonances of Dirac Particle in the Yukawa Potential. Few-Body Systems, 2014, 55, 135-141.	1.5	3
61	Spin and pseudospin symmetries and their breaking mechanisms in antinucleon spectrum. International Journal of Modern Physics E, 2017, 26, 1750025.	1.0	3
62	Photoproduction of the double J/Ïˆ (Ï’) at the LHC with forward proton tagging. Physical Review D, 2019, 99, .	4.7	3
63	Investigation of pseudospin and spin symmetries in relativistic mean field theory combined with a similarity renormalization group approach. Physical Review C, 2022, 105, .	2.9	3
64	HALO IN THE EXCITED STATES FOR N = 41 ISOTONES. Modern Physics Letters A, 2006, 21, 2751-2761.	1.2	2
65	Bound and Resonant States of the HulthÃ©n Potential Investigated by Using the Complex Scaling Method with the Oscillator Basis. Chinese Physics Letters, 2010, 27, 110304.	3.3	2
66	Next-to-leading order QCD corrections to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi><mml:msup><mml:mi>W</mml:mi><mml:mo mathvariant="bold">Â±</mml:mo></mml:msup><mml:mi>Î³</mml:mi></mml:math>production at the LHC. Physical Review D, 2013, 88, .	4.7	2
67	Examination of the pseudospin symmetry for the relativistic harmonic oscillator with the similarity renormalization group. Physical Review C, 2014, 90, .	2.9	2
68	General formalism of collective motion for any deformed system. Physical Review C, 2015, 92, .	2.9	2
69	Probing double hadron resonances by the complex scaling method. Physical Review C, 2021, 104, .	2.9	2
70	J/Ïˆ associated production with a bottom quark pair from the Higgs boson decay in next-to-leading order QCD. Physical Review D, 2022, 105, .	4.7	2
71	Research on the deformed halo in ²⁹F with a complex momentum representation method. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 065101.	3.6	2
72	PROPERTIES OF THE SUPERHEAVY NUCLEUS 294118 AND ITS Î±-DECAY CHAIN IN THE RELATIVISTIC MEAN FIELD THEORY. International Journal of Modern Physics E, 2008, 17, 1309-1317.	1.0	1

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73	J /Ïˆ Production Associated with the W -Boson at the 7 TeV Large Hadron Collider. Chinese Physics Letters, 2013, 30, 091201.	3.3	1
74	Relativistic symmetries in nuclear single-particle spectra. International Review of Nuclear Physics, 2016, , 219-262.	1.0	1
75	COMPLEX SCALING METHOD AND THE RESONANT STATES. , 2011, , .		0
76	The structure of the spherical tensor forces in the USD and GXPF1A shell model Hamiltonians. Chinese Physics C, 2011, 35, 753-757.	3.7	0
77	Constraint on the cosmic age from the solar<i>r</i>-process abundances. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 105202.	3.6	0
78	Dark matter pair associated with a W boson production at the LHC in next-to-leading order QCD. Journal of High Energy Physics, 2014, 2014, 1.	4.7	0
79	Probing Resonances and Pseudospin Symmetry of the Eckart Potential by the Complex Scaling Method within the Relativistic Framework. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 287-292.	1.5	0
80	Revisit prompt <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi>Ïˆ</mml:mi></mml:math> production in associated with Higgs boson via gluon fusion at the LHC. Physical Review D, 2021, 104, .	4.7	0
81	Investigation of n-Î± scattering by combining complex momentum representation and Greenâ€™s function. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 092101.	0.5	0
82	The first excited single-proton resonance in 15F by complex-scaled Green's function method. Chinese Physics C, 2020, 44, 054103.	3.7	0