

Jiangming Yao

List of Publications by Year in descending order

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115
papers

3,224
citations

136950

32
h-index

161849

54
g-index

115
all docs

115
docs citations

115
times ranked

1142
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-reference many-body perturbation theory for nuclei. European Physical Journal A, 2022, 58, 1.	2.5	24
2	Beyond-mean-field approaches for nuclear neutrinoless double beta decay in the standard mechanism. Progress in Particle and Nuclear Physics, 2022, 126, 103965.	14.4	22
3	Advances in modeling nuclear matrix elements of neutrinoless double beta decay. Science Bulletin, 2021, 66, 3-5.	9.0	2
4	<i>Ab initio</i> benchmarks of neutrinoless double- β decay in light nuclei with a chiral Hamiltonian. Physical Review C, 2021, 103, .	2.9	19
5	Application of an efficient generator-coordinate subspace-selection algorithm to neutrinoless double- β decay. Physical Review C, 2021, 104, .	2.9	10
6	<i>Ab Initio</i> Calculation of the Contact Operator Contribution in the Standard Mechanism for Neutrinoless Double Beta Decay. Physical Review Letters, 2021, 127, 242502.	7.8	24
7	<i>Ab Initio</i> Treatment of Collective Correlations and the Neutrinoless Double Beta Decay of Ca48. Physical Review Letters, 2020, 124, 232501.	7.8	79
8	Benchmark neutrinoless double- β decay matrix elements in a light nucleus. Physical Review C, 2020, 102, .	2.9	12
9	Relativistic mean-field and beyond approaches for deformed hypernuclei. AIP Conference Proceedings, 2019, , .	0.4	2
10	Quadrupole collectivity and shell closure in neutron-rich nuclei near $N=26$. Physical Review C, 2019, 99, .	2.9	12
11	Beyond mean-field approach for pear-shaped hypernuclei. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	11
12	Odd-even parity splittings and octupole correlations in neutron-rich Ba isotopes. Physical Review C, 2018, 97, .	2.9	15
13	Microscopic analysis of shape transition in neutron-deficient Yb isotopes. Physical Review C, 2018, 97, .	2.9	8
14	Nuclear Structure from the In-Medium Similarity Renormalization Group. Journal of Physics: Conference Series, 2018, 1041, 012007.	0.4	12
15	Generator-coordinate reference states for spectra and β decay in the in-medium similarity renormalization group. Physical Review C, 2018, 98, .	2.9	12
16	Quenching of nuclear matrix elements for β decay by chiral two-body currents. Physical Review C, 2018, 98, .	2.9	12
17	Disappearance of nuclear deformation in hypernuclei: A perspective from a beyond-mean-field study. Physical Review C, 2018, 97, .	2.9	16
18	Nuclear matrix elements for neutrinoless double-beta decay in covariant density functional theory. International Journal of Modern Physics E, 2017, 26, 1740020.	1.0	6

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19	Nuclear matrix element of neutrinoless double- β decay: Relativity and short-range correlations. Physical Review C, 2017, 95, .	2.9	64
20	Beyond-mean-field study of the hyperon impurity effect in hypernuclei with shape coexistence. Physical Review C, 2017, 95, .	2.9	18
21	Existence problem of proton semi-bubble structure in the 21^+ state of ^{34}Si . European Physical Journal A, 2017, 53, 1.	2.5	2
22	Transition from vibrational to rotational character in low-lying states of hypernuclei. Physical Review C, 2017, 96, .	2.9	6
23	Configuration mixing in low-lying spectra of carbon hypernuclei. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	8
24	Recent developments in heavy-ion fusion reactions around the Coulomb barrier. EPJ Web of Conferences, 2016, 122, 07002.	0.3	0
25	Generator coordinate method for hypernuclear spectroscopy with a covariant density functional. Physical Review C, 2016, 93, .	2.9	23
26	Low-energy hypernuclear spectra within a microscopic particle-rotor model with a relativistic point-coupling hyperon-nucleon interaction. Physical Review C, 2016, 93, .	2.9	12
27	Novel triaxial structure in low-lying states of neutron-rich nuclei around $A > 100$. Physical Review C, 2016, 93, .	2.9	12
28	Anharmonicity of multi- $\hbar\omega$ octupole-phonon excitations in $\text{Pb}208$: Analysis with multireference covariant density functional theory and subbarrier fusion of $\text{O}16+\text{Pb}208$. Physical Review C, 2016, 94, .	2.9	13
29	Octupole correlations in low-lying states of $\text{Nd}150$ and $\text{Sm}150$ and their impact on neutrinoless double- β decay. Physical Review C, 2016, 94, .	2.9	28
30	Present status of coupled-channels calculations for heavy-ion subbarrier fusion reactions. EPJ Web of Conferences, 2016, 117, 08003.	0.3	1
31	Anatomy of molecular structures in ^{20}Ne . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 227-231.	4.1	40
32	Structure of hypernuclei in relativistic approaches. International Review of Nuclear Physics, 2016, , 263-303.	1.0	7
33	Beyond the relativistic mean-field approximation $\hbar\omega$ collective correlations. International Review of Nuclear Physics, 2016, , 517-560.	1.0	1
34	Beyond relativistic mean-field approach for nuclear octupole excitations. Physical Review C, 2015, 92, .	2.9	48
35	Microscopic study of low-lying spectra of hypernuclei based on a beyond-mean-field approach with a covariant energy density functional. Physical Review C, 2015, 91, .	2.9	30
36	Semimicroscopic modeling of heavy-ion fusion reactions with multireference covariant density functional theory. Physical Review C, 2015, 91, .	2.9	11

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37	Neutrinoless double-beta decay in covariant density functional theory. AIP Conference Proceedings, 2015, , .	0.4	2
38	Beyond-mean-field study of elastic and inelastic electron scattering off nuclei. Physical Review C, 2015, 91, .	2.9	26
39	Global study of beyond-mean-field correlation energies in covariant energy density functional theory using a collective Hamiltonian method. Physical Review C, 2015, 91, .	2.9	55
40	Triaxially deformed relativistic point-coupling model for β -hypernuclei: A quantitative analysis of the hyperon impurity effect on nuclear collective properties. Physical Review C, 2015, 91, .	2.9	26
41	Systematic study of nuclear matrix elements in neutrinoless double- β decay with a beyond-mean-field covariant density functional theory. Physical Review C, 2015, 91, .	2.9	121
42	A systematic study of even-even nuclei from Ne to Ca in covariant density functional theory with triaxiality. Progress of Theoretical and Experimental Physics, 2014, 2014, 113D03-113D03.	6.6	6
43	Microscopic particle-rotor model for the low-lying spectrum of β -hypernuclei. Physical Review C, 2014, 90, .	2.9	30
44	Relativistic description of nuclear matrix elements in neutrinoless double- β decay. Physical Review C, 2014, 90, .	2.9	60
45	Searching for a linear-chain structure in excited states of ^{16}O with covariant density functional theory. Physical Review C, 2014, 90, .	2.9	29
46	Low-energy structure and anti-bubble effect of dynamical correlations in ^{46}Ar . Physical Review C, 2014, 89, .	2.9	30
47	Global dynamical correlation energies in covariant density functional theory: Cranking approximation. Frontiers of Physics, 2014, 9, 529-536.	5.0	53
48	Microscopic benchmark study of triaxiality in low-lying states of ^{76}Kr . Physical Review C, 2014, 89, .	2.9	85
49	Collective excitations of β -hypernuclei. Nuclear Physics A, 2013, 914, 151-159.	1.5	10
50	Effect of pairing correlations on nuclear low-energy structure: BCS and general Bogoliubov transformation. Physical Review C, 2013, 88, .	2.9	17
51	Energy density functional description of low-lying states in neutron-deficient Sn isotopes. Physica Scripta, 2013, T154, 014012.	2.5	0
52	Simultaneous quadrupole and octupole shape phase transitions in Thorium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 866-869.	4.1	60
53	Does a proton bubble structure exist in the low-lying states of ^{34}Si ? Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 459-463.	4.1	42
54	Systematic study of hypernuclear magnetic moments under a perturb treatment. European Physical Journal A, 2013, 49, 1.	2.5	2

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55	Mass and lifetime of unstable nuclei in covariant density functional theory. Physica Scripta, 2013, T154, 014010.	2.5	1
56	Magnetic moments of $\hat{\nu}$ hypernuclei within the time-odd triaxial relativistic mean-field approach. Physical Review C, 2013, 88, .	2.9	6
57	Beyond relativistic mean-field studies of low-lying states in neutron-deficient krypton isotopes. Physical Review C, 2013, 87, .	2.9	67
58	Systematics of low-lying states of even-even nuclei in the neutron-deficient lead region from a beyond-mean-field calculation. Physical Review C, 2013, 87, .	2.9	61
59	Covariant density functional theory for exotic nuclei near the neutron drip-line. Journal of Physics: Conference Series, 2013, 413, 012005.	0.4	0
60	BEYOND THE RELATIVISTIC MEAN-FIELD APPROXIMATION FOR LOW-LYING STATES: LIMITATION OF CURRENT IMPLEMENTATION. , 2013, , .		0
61	Energy density functional analysis of shape coexistence in ^{44}S . , 2012, , .		0
62	Rapid structural change in low-lying states of neutron-rich Sr and Zr isotopes. Physical Review C, 2012, 85, .	2.9	53
63	Efficient method for computing the Thouless-Valatin inertia parameters. Physical Review C, 2012, 86, .	2.9	24
64	Beyond-mean-field study of the possible "bubble" structure of ^{34}Si . Physical Review C, 2012, 86, .	2.9	45
65	IMPURITY EFFECT OF $\hat{\nu}$ HYPERON ON SHAPE-COEXISTENCE NUCLEUS ^{44}S IN THE ENERGY FUNCTIONAL BASED COLLECTIVE HAMILTONIAN. International Journal of Modern Physics E, 2012, 21, 1250024.	1.0	1
66	Systematic study of the symmetry energy coefficient in finite nuclei. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 015107.	3.6	8
67	Enhanced collectivity in neutron-deficient Sn isotopes in energy functional based collective Hamiltonian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 470-473.	4.1	39
68	Microscopic description of quantum phase transitions in nuclei. , 2012, , .		0
69	Covariant density functional theory and applications in nuclear physics and r-process. EPJ Web of Conferences, 2012, 38, 02001.	0.3	0
70	Covariant description of shape evolution and shape coexistence in neutron-rich nuclei at. Nuclear Physics A, 2012, 873, 1-16.	1.5	69
71	Microscopic description of quantum shape fluctuation in C isotopes. Physical Review C, 2011, 84, .	2.9	21
72	Energy density functional analysis of shape evolution in $N=28$ isotone Physical Review C, 2011, 84, .	2.9	66

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73	Covariant density functional theory with spectroscopic properties and a microscopic theory of quantum phase transitions in nuclei. Journal of Physics: Conference Series, 2011, 267, 012043.	0.4	0
74	A new covariant density functional with point-coupling and its application. Journal of Physics: Conference Series, 2011, 321, 012016.	0.4	0
75	Impurity effect of Lambda hyperon on collective excitations of nuclear core in $^{25}\text{Mg} + \Lambda$ system. Nuclear Physics A, 2011, 868-869, 12-24.	1.5	39
76	g factors of nuclear low-lying states: A covariant description. Science China: Physics, Mechanics and Astronomy, 2011, 54, 198-203.	5.1	7
77	Relativistic description of second-order correction to nuclear magnetic moments with point-coupling residual interaction. Science China: Physics, Mechanics and Astronomy, 2011, 54, 204-209.	5.1	33
78	Superallowed Fermi transitions in RPA with a relativistic point-coupling energy functional. Science China: Physics, Mechanics and Astronomy, 2011, 54, 1131-1136.	5.1	2
79	Configuration mixing of angular-momentum-projected triaxial relativistic mean-field wave functions. II. Microscopic analysis of low-lying states in magnesium isotopes. Physical Review C, 2011, 83, .	2.9	91
80	Tensor Coupling Effects on Spin Symmetry in the Anti-Lambda Spectrum of Hypernuclei. Chinese Physics Letters, 2011, 28, 092101.	3.3	18
81	SENSITIVITY OF THE NUCLEAR COLLECTIVITY TO THE PAIRING STRENGTH IN ^{150}Nd . International Journal of Modern Physics E, 2011, 20, 494-499.	1.0	6
82	LOW-LYING STATES IN ^{30}Mg : A BEYOND RELATIVISTIC MEAN-FIELD INVESTIGATION. International Journal of Modern Physics E, 2011, 20, 482-487.	1.0	1
83	One-Pion Exchange Current Corrections for Nuclear Magnetic Moments in Relativistic Mean Field Theory. Progress of Theoretical Physics, 2011, 125, 1185-1192.	2.0	30
84	Covariant Density Functional Theory—highlights on recent progress and applications. , 2011, , .		0
85	COVARIANT DESCRIPTION OF THE LOW-LYING STATES IN NEUTRON-DEFICIENT Kr ISOTOPES. , 2011, , .		0
86	Covariant Density Functional Theory for Nuclear Structure and Application in Astrophysics. Nuclear Physics A, 2010, 834, 436c-439c.	1.5	1
87	Exotic Magnetic Rotation in ^{22}F . Chinese Physics Letters, 2010, 27, 122101.	3.3	3
88	Polarization effect on the spin symmetry for anti-Lambda spectrum in $^{16}\text{O} + \Lambda$ system. Chinese Physics C, 2010, 34, 1425-1427.	3.7	28
89	Microscopic description of nuclear structure around $\text{Zr}80$. Physical Review C, 2010, 82, .	2.9	3
90	Shape coexistence and strongly coupled bands in $\text{Sb}118$. Physical Review C, 2010, 82, .	2.9	14

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91	Coexistence of collective and noncollective structures in Sn118. Physical Review C, 2010, 81, .	2.9	17
92	New parametrization for the nuclear covariant energy density functional with a point-coupling interaction. Physical Review C, 2010, 82, .	2.9	463
93	LAMBDA AND ANTI-LAMBDA HYPERNUCLEI IN RELATIVISTIC MEAN-FIELD THEORY. International Journal of Modern Physics E, 2010, 19, 2538-2545.	1.0	18
94	Effects of Pairing Correlations on Formation of Proton Halo in ^{99}C . Chinese Physics Letters, 2010, 27, 092101.	3.3	3
95	Configuration mixing of angular-momentum-projected triaxial relativistic mean-field wave functions. Physical Review C, 2010, 81, .	2.9	163
96	Chiral geometry of higher excited bands in triaxial nuclei with particle-hole configuration. Physical Review C, 2010, 82, .	2.9	25
97	Candidate multiple chiral doublets nucleus ^{106}Rh in a triaxial	2.9	47
98	Examining ^{106}Rh in a triaxial	2.9	47
99	Three-dimensional angular momentum projection in relativistic mean-field theory. Physical Review C, 2009, 79, .	2.9	91
100	Single-particle resonance states of ^{122}Zr in relativistic mean-field theory combined with real stabilization method. Chinese Physics C, 2009, 33, 101-104.	3.7	1
101	Restoration of rotational symmetry in deformed relativistic mean-field theory. Chinese Physics C, 2009, 33, 21-23.	3.7	0
102	Structural evolution of the intruder band in ^{118}Sn . Chinese Physics C, 2009, 33, 838-841.	3.7	4
103	Towards Lambda-nucleon coupling constants in relativistic mean field theory. Chinese Physics C, 2009, 33, 64-66.	3.7	0
104	Deformation constrained relativistic mean-field approach with fixed configuration and time-odd component. Chinese Physics C, 2009, 33, 98-100.	3.7	5
105	Spin Symmetry for Anti-Lambda Spectrum in Atomic Nucleus. Chinese Physics Letters, 2009, 26, 122102.	3.3	32
106	Magnetic moments of ^{33}Mg in the time-odd relativistic mean field approach. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1586-1592.	0.2	20
107	LAMBDA AND ANTI-LAMBDA HYPERNUCLEI IN RELATIVISTIC MEAN-FIELD THEORY. , 2009, , .		0
108	Effects of triaxial deformation and pairing correlation on the proton emitter ^{145}Tm . Physical Review C, 2008, 77, .	2.9	14

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109	Description of ϵ bands in g bands in ^{92}Zr . Physical Review C, 2008, 77, .	2.9	48
110	Search for multiple chiral doublets in rhodium isotopes. Physical Review C, 2008, 77, .	2.9	66
111	Binding energy differences of mirror nuclei in a time-odd triaxial relativistic mean field approach. Physical Review C, 2007, 76, .	2.9	11
112	Structure of nuclei far from the stability in relativistic approach. European Physical Journal: Special Topics, 2007, 150, 139-144.	2.6	0
113	Time-odd triaxial relativistic mean field approach for nuclear magnetic moments. Physical Review C, 2006, 74, .	2.9	60
114	RECENT PROGRESS IN RELATIVISTIC MANY-BODY APPROACH. International Journal of Modern Physics E, 2006, 15, 1447-1464.	1.0	3
115	MIRROR NUCLEI ^{12}B AND ^{12}N IN TIME-ODD TRIAXIAL RELATIVISTIC MEAN FIELD THEORY. International Journal of Modern Physics E, 2006, 15, 1513-1521.	1.0	0