

Chong Qi

List of Publications by Year in descending order

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107
papers

2,229
citations

257450

24
h-index

243625

44
g-index

107
all docs

107
docs citations

107
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal Decay Law in Charged-Particle Emission and Exotic Cluster Radioactivity. Physical Review Letters, 2009, 103, 072501.	7.8	286
2	Microscopic mechanism of charged-particle radioactivity and generalization of the Geiger-Nuttall law. Physical Review C, 2009, 80, .	2.9	173
3	Evidence for a spin-aligned neutron-proton paired phase from the level structure of ^{92}Pd . Nature, 2011, 469, 68-71.	27.8	140
4	Signatures of the Z Shell Closure in ^{82}Mn Decay Process. Physical Review Letters, 2013, 110, 242502.	7.8	93
5	Recent developments in radioactive charged-particle emissions and related phenomena. Progress in Particle and Nuclear Physics, 2019, 105, 214-251.	14.4	77
6	Spin-aligned neutron-proton pair mode in atomic nuclei. Physical Review C, 2011, 84, .	2.9	75
7	Effects of formation properties in one-proton radioactivity. Physical Review C, 2012, 85, .	2.9	65
8	Monopole-optimized effective interaction for tin isotopes. Physical Review C, 2012, 86, .	2.9	64
9	New short-lived isotope ^{223}Np and the absence of the $Z=92$ subshell closure near $N=126$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 303-308.	4.1	54
10	New I^{π} -Emitting Isotope ^{214}U	7.8	47
11	On the validity of the Geiger-Nuttall alpha-decay law and its microscopic basis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 203-206.	4.1	45
12	Empirical pairing gaps, shell effects, and di-neutron spatial correlation in neutron-rich nuclei. Nuclear Physics A, 2015, 940, 210-226.	1.5	43
13	Transition probabilities near ^{100}Sn and the stability of the $N < Z$ nuclei	2.9	39
14	Alpha decay as a probe for the structure of neutron-deficient nuclei. Reviews in Physics, 2016, 1, 77-89.	8.9	37
15	Partial conservation of seniority in the ^{209}Bi Analytic and numerical studies. Physical Review C, 2011, 83, .	2.9	32
16	Density dependence of the pairing interaction and pairing correlation in unstable nuclei. Physical Review C, 2015, 91, .	2.9	32
17	Multistep shell model description of spin-aligned neutron-proton pair coupling. Nuclear Physics A, 2012, 877, 51-58.	1.5	31
18	Abrupt changes in I^{π} -decay systematics as a manifestation of collective nuclear modes. Physical Review C, 2010, 81, .	2.9	30

#	ARTICLE	IF	CITATIONS
19	Mirror energy difference and the structure of loosely bound proton-rich nuclei around 2α . Physical Review C, 2014, 89, .	2.9	20
20	Theoretical uncertainties of the Duflo–Zuker shell-model mass formulae. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045104.	3.6	30
21	Lifetime measurement of the first excited state in ^{108}Te . Physical Review C, 2011, 84, .	2.9	29
22	Exact solution of the pairing problem for spherical and deformed systems. Physical Review C, 2015, 92, .	2.9	26
23	$N=Z$ nuclei: a laboratory for neutron–proton collective mode. Physica Scripta, 2016, 91, 013009.	2.5	26
24	Lifetime Measurements of Excited States in ^{172}Pt and the Variation of Quadrupole Transition Strength with Angular Momentum. Physical Review Letters, 2020, 124, 062501.	7.8	24
25	and the Variation of Quadrupole Transition Strength with Angular Momentum. Physical Review Letters, 2020, 124, 062501.	7.8	24
26	Extended universal decay law formula for the $\hat{I}\pm$ and cluster decays. Nuclear Physics A, 2021, 1013, 122221.	1.5	24
27	Anomalous transition strength in the proton-unbound nucleus ^{56}I . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 118-122.	4.1	22
28	Shell evolution and its indication on the isospin dependence of the spin–orbit splitting. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 247-252.	4.1	22
29	Alternate proof of the Rowe-Rosensteel proposition and seniority conservation. Physical Review C, 2010, 82, .	2.9	21
30	Double binding energy differences: Mean-field or pairing effect?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 436-440.	4.1	21
31	Global calculations of microscopic energies and nuclear deformations: Isospin dependence of the spin-orbit coupling. Physical Review C, 2015, 92, .	2.9	21
32	Energy expressions for $n\alpha$ and $m\alpha$ systems in a single-particle shell. Physical Review C, 2015, 91, .	2.9	20
33	in ^{112}Te . Physical Review C, 2015, 91, .	2.9	20
34	Shell-model configuration-interaction description of quadrupole collectivity in Te isotopes. Physical Review C, 2016, 94, .	2.9	19
35	Shell evolution in neutron-rich carbon isotopes: Unexpected enhanced role of neutron–neutron correlation. Nuclear Physics A, 2012, 883, 25-34.	1.5	18
36	Character of particle-hole excitations in ^{94}Ru deduced from \hat{I}^3 -ray angular correlation and linear polarization measurements. Physical Review C, 2014, 89, .	2.9	18

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37	Empirical residual neutron-proton interaction in odd-odd nuclei. Physical Review C, 2016, 93, .	2.9	18
38	Magnetic moments of low-lying states in tin isotopes within the nucleon-pair approximation. Physical Review C, 2014, 89, .	2.9	17
39	Large-scale shell-model calculations on the spectroscopy of $N=126$ isotopes. Physical Review C, 2016, 94, .	2.9	17
40	Partial conservation of seniority and its unexpected influence on E2 transitions in $g_{9/2}$ nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 616-619.	4.1	15
41	Generalized-seniority pattern and thermal properties in even Sn isotopes. Physical Review C, 2016, 94, .	2.9	14
42	\hat{I}_{\pm} decay half-life estimation and uncertainty analysis. Physical Review C, 2020, 101, .	2.9	14
43	Shell-model study of spectroscopies and isospin structures in odd-odd $N=Z$ nuclei employing realistic NN interaction. Nuclear Physics A, 2008, 800, 47-62.	1.5	13
44	Analytic proof of partial conservation of seniority in shells. Nuclear Physics A, 2012, 884-885, 21-35.	1.5	13
45	Probing shape coexistence by \hat{I}_{\pm} decays to 0^+ states. Physical Review C, 2014, 90, .	2.9	13
46	Isospin asymmetry effects in mirror nuclei with modern charge-dependent NN potential. Nuclear Physics A, 2008, 814, 48-65.	1.5	12
47	Nucleon pair approximation description of the low-lying structure of $^{108,109}\text{Te}$ and ^{109}I . Physical Review C, 2013, 88, .	2.9	12
48	Spectroscopic factor and proton formation probability for the $d_{3/2}$ proton emitter ^{151}Lu . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 83-87.	4.1	12
49	Nature of seniority symmetry breaking in the semimagic nucleus ^{219}Rn . Molecular structure of highly excited resonant states in ^{219}Rn . Physical Review C, 2022, 105, .	2.9	12
50	^{24}Mg and the corresponding ^{24}Mg and the corresponding electromagnetic transition strengths in ^{24}Mg .	2.9	11
51	Electromagnetic transition strengths in ^{52}Be and ^{109}Te . Physical Review C, 2012, 86, .	2.9	11
52	Generalization of the Geiger-Nuttall law and alpha clustering in heavy nuclei. Journal of Physics: Conference Series, 2012, 381, 012131.	0.4	11
53	Coherence features of the spin-aligned neutron-proton pair coupling scheme. Physica Scripta, 2012, T150, 014031.	2.5	11
54	Multiparticle configurations of excited states in ^{155}Lu . Physical Review C, 2016, 94, .	2.9	11

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55	Odd-even staggering in neutron drip line nuclei. Nuclear Physics A, 2016, 951, 97-115.	1.5	11
56	High-spin structures in the ^{129}Xe nucleus. Physical Review C, 2016, 93, .	2.9	11
57	Nucleon-pair states of even-even Sn isotopes based on realistic effective interactions. Physical Review C, 2016, 94, .	2.9	11
58	Partial seniority conservation and solvability of single- j systems. Physical Review C, 2018, 98, .	2.9	10
59	Isomer-tagged differential-plunger measurements in ^{54}Xe . Physical Review C, 2013, 87, .	2.9	9
60	Correlated-basis method for shell-model calculations. Physical Review C, 2014, 90, .	2.9	9
61	Spin-dependent evolution of collectivity in ^{112}Te . Physical Review C, 2017, 96, .	2.9	8
62	The Stellar β^2 -decay Rate of ^{134}Cs and Its Impact on the Barium Nucleosynthesis in the s-process. Astrophysical Journal Letters, 2021, 919, L19.	8.3	8
63	Analysis of the unbound spectrum of ^{12}Li . Nuclear Physics A, 2011, 850, 53-68.	1.5	7
64	The $B(E2; 0^+ \rightarrow 2^+)$ systematics of Sn and Te isotopes in light of data in the light Sn region including a recent measurement in ^{108}Te using the combined recoil-decay tagging recoil-distance Doppler technique. Physica Scripta, 2012, T150, 014003.	2.5	7
65	β -decay rate of ^{59}Fe in shell burning environment and its influence on the production of ^{59}Fe . Physical Review C, 2012, 85, 054607.	2.9	7
66	PairDiag: An exact diagonalization program for solving general pairing Hamiltonians. Computer Physics Communications, 2021, 259, 107349.	7.5	7
67	Isovector channel of quark-meson-coupling model and its effect on symmetry energy. Nuclear Physics A, 2011, 865, 57-68.	1.5	6
68	Spin-Aligned Neutron-Proton Pair Coupling Scheme. Progress of Theoretical Physics Supplement, 2012, 196, 414-420.	0.1	6
69	Spectroscopy of the neutron-deficient $N=50$ nucleus ^{95}Rh . Physical Review C, 2014, 89, .	2.9	6
70	Recoil-decay tagging spectroscopy of ^{74}W . Physical Review C, 2015, 92, .	2.9	6
71	Theoretical studies of proton capture reactions in $A \approx 25$ proton-rich nuclei. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1464-1470.	0.2	5
72	Alpha-particle decays from excited states in ^{24}Mg . Science China: Physics, Mechanics and Astronomy, 2011, 54, 130-135.	5.1	5

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73	Competition of different coupling schemes in atomic nuclei. Journal of Physics: Conference Series, 2012, 338, 012027.	0.4	5
74	Collective band structures in the ^{99}Tc nucleus. Physical Review C, 2015, 93, 014307.	2.9	5
75	Collective band structures in the ^{162}W and ^{164}Yb nuclei. Physical Review C, 2015, 93, 014308.	2.9	5
76	M1 and E2 transition rates from core-excited states in semi-magic ^{94}Ru . European Physical Journal A, 2018, 54, 1.	2.5	5
77	Tensor force effect on the exotic structure of neutron-rich Ca isotopes *. Chinese Physics C, 2019, 43, 114101.	3.7	5
78	Alpha decay measured in single-particle units as a manifestation of nuclear collectivity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136373.	4.1	5
79	Reinvestigation of the collective band structures in odd-odd ^{138}Pm nucleus. European Physical Journal A, 2015, 51, 1.	2.5	4
80	Pairing Effects on Bubble Nuclei. Chinese Physics Letters, 2019, 36, 032101.	3.3	4
81	New ^{59}Fe Stellar Decay Rate with Implications for the ^{60}Fe Radioactivity in Massive Stars. Physical Review Letters, 2021, 126, 152701.	7.8	4
82	PairDiagSph: Generalization of the exact pairing diagonalization program for spherical systems. Computer Physics Communications, 2021, 263, 107897.	7.5	4
83	PROTON RESONANCE PROPERTIES IN LIGHT NUCLEI WITH MEAN-FIELD TYPE POTENTIALS. International Journal of Modern Physics E, 2008, 17, 1955-1964.	1.0	3
84	Lifetime measurement in the proton-unbound nucleus ^{109}I . , 2011, , .		3
85	Configuration mixing effects in neutron-rich carbon isotopes. Journal of Physics: Conference Series, 2013, 420, 012049.	0.4	3
86	Evidence for enhanced neutron-proton correlations from the level structure of the ^{44}Tc nucleus. Physical Review C, 2021, 104, .	2.9	3
87	An iterative approach for the exact solution of the pairing Hamiltonian. Computer Physics Communications, 2022, 275, 108310.	7.5	3
88	ISOSPIN SYMMETRY AND GAMOW TELLER TRANSITION STRENGTHS IN MIRROR NUCLEI. International Journal of Modern Physics E, 2006, 15, 1563-1568.	1.0	2
89	High-spin study of ^{162}Ta . Physical Review C, 2011, 84, .	2.9	2
90	Lifetimes of core-excited states in semi-magic ^{95}Rh . European Physical Journal A, 2020, 56, 1.	2.5	2

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91	Nuclear clustering and generalization of the Geiger–Nuttall law 100 years after its formulation. Journal of Physics: Conference Series, 2011, 321, 012048.	0.4	1
92	Eigen-Property of Single- j System and Seniority Conservation Condition. Plasma Science and Technology, 2012, 14, 383-385.	1.5	1
93	Spin-aligned neutron-proton pair coupling in the era of large scale computing. Journal of Physics: Conference Series, 2012, 381, 012106.	0.4	1
94	Multistep shell model in the complex energy plane. Journal of Physics: Conference Series, 2012, 338, 012029.	0.4	1
95	The structure of tin isotopes with a global optimized effective interaction. Journal of Physics: Conference Series, 2013, 413, 012037.	0.4	1
96	Large-scale configuration interaction description of the structure of nuclei around ^{100}Sn and ^{208}Pb . Journal of Physics: Conference Series, 2016, 742, 012030.	0.4	1
97	Reinvestigation of the excited states in the proton emitter ^{151}Lu : Particle-hole excitations across the $N=Z=64$ subshell. Physical Review C, 2017, 96, .	2.9	1
98	Investigation of high spin states in ^{133}Cs . European Physical Journal A, 2018, 54, 1.	2.5	1
99	Lifetime measurements of excited states in $^{169,171,173}\text{Os}$: Persistence of anomalous $B(E2)$ ratios in transitional rare earth nuclei in the presence of a decoupled $i_{13/2}$ valence neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136527.	4.1	1
100	Shell-Model Calculations of f p -shell Nuclei with Realistic NN Interactions. , 2010, , .		0
101	Suppression of alpha formation probability around the $N=126$ shell closure. , 2011, , .		0
102	Differential evolution algorithm for global optimizations in nuclear physics. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 045107.	3.6	0
103	Shell model description of heavy nuclei and abnormal collective motions. EPJ Web of Conferences, 2018, 178, 02015.	0.3	0
104	Evidence for octupole collectivity in ^{172}Pt . European Physical Journal A, 2020, 56, 1.	2.5	0
105	np -Pair Correlations in the Isovector Pairing Model. Symmetry, 2021, 13, 1405.	2.2	0
106	IN-BEAM β -RAY SPECTROSCOPY ABOVE THE HIGH-SPIN ISOMERIC STATE IN ^{155}Lu . , 2013, , .		0
107	Identification of excited states in ^{55}Te . Physical Review C, 2021, 104, .	2.9	0