Wen-Hui Long

List of Publications by Year
in descending order

62	3,145	236925 25	161849 54
papers	citations	h-index	g-index

62	62	62	861
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Relativistic continuum Hartree Bogoliubov theory for ground-state properties of exotic nuclei. Progress in Particle and Nuclear Physics, 2006, 57, 470-563.	14.4	845
2	New effective interactions in relativistic mean field theory with nonlinear terms and density-dependent meson-nucleon coupling. Physical Review C, 2004, 69, .	2.9	352
3	Density-dependent relativistic Hartreeâ€“Fock approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 150-154.	4.1	205
4	Shell structure and Ï•tensor correlations in density dependent relativistic Hartree-Fock theory. Physical Review C, 2007, 76, .	2.9	168
5	Î²-decay half-lives of neutron-rich nuclei and matter flow in the r-process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 172-176.	4.1	133
6	Evolution of nuclear shell structure due to the pion exchange potential. Europhysics Letters, 2008, 82, 12001.	2.0	106
7	Relativistic Hartree-Fock-Bogoliubov theory with density dependent meson-nucleon couplings. Physical Review C, 2010, 81, .	2.9	96
8	Towards an ab initio covariant density functional theory for nuclear structure. Progress in Particle and Nuclear Physics, 2019, 109, 103713.	14.4	78
9	Nuclear halo structure and pseudospin symmetry. Physical Review C, 2010, 81, .	2.9	75
10	Pseudo-spin symmetry in density-dependent relativistic Hartreeâ€“Fock theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 242-247.	4.1	66
11	Neutron star properties in density-dependent relativistic Hartree-Fock theory. Physical Review C, 2008, 78, .	2.9	66
12	Superheavy magic structures in the relativistic Hartreeâ€“Fockâ€“Bogoliubov approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 732, 169-173.	4.1	63
13	Non-local mean field effect on nuclei near <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>64</mml:mn></mml:math> sub-shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 428-431.	4.1	58
14	Spin symmetry in Dirac negative-energy spectrum in density-dependent relativistic Hartree-Fock theory. European Physical Journal A, 2010, 44, 119-124.	2.5	58
15	Hyperon effects in covariant density functional theory and recent astrophysical observations. Physical Review C, 2012, 85, .	2.9	52
16	Magicity of neutron-rich nuclei within relativistic self-consistent approaches. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 97-102.	4.1	45
17	Nuclear tensor interaction in a covariant energy density functional. Physical Review C, 2015, 91, .	2.9	39
18	Hypernuclear stars from relativistic Hartree-Fock density functional theory. European Physical Journal A, 2018, 54, 1.	2.5	38

#	Article	IF	Citations
19	Tensor effects on the evolution of theN=40shell gap from nonrelativistic and relativistic mean-field theory. Physical Review C, 2013, 87, .	2.9	37
20	Pseudospin-orbit splitting and its consequences for the central depression in nuclear density. Physical Review C, 2016, 93, .	2.9	37
21	Novel relativistic mean field Lagrangian guided by pseudo-spin symmetry restoration *. Chinese Physics C, 2020, 44, 074107.	3.7	37
22	Structure of the new nuclide259Dband itsÎ±-decay daughter nuclei. Physical Review C, 2002, 65, .	2.9	35
23	K0 Sâ€‰â˜†â€‰K0 L asymmetries and CP violation in charmed baryon decays into neutral kaons. Journal of High Energy Physics, 2018, 2018, 1.	4.7	32
24	Pairing phase transition: A finite-temperature relativistic Hartree-Fock-Bogoliubov study. Physical Review C, 2015, 92, .	2.9	30
25	Proton radioactivity described by covariant density functional theory with the similarity renormalization group method. Physical Review C, 2014, 90, .	2.9	27
26	Slater approximation for Coulomb exchange effects in nuclear covariant density functional theory. Physical Review C, 2013, 87, .	2.9	25
27	Description of carbon isotopes within relativistic Hartree-Fock-Bogoliubov theory. Physical Review C, 2013, 87, .	2.9	24
28	Odd-even staggering of the nuclear binding energy described by covariant density functional theory with calculations for spherical nuclei. Physical Review C, 2013, 87, .	2.9	24
29	Quantitative analysis of tensor effects in the relativistic Hartree-Fock theory. Physical Review C, 2018, 98, .	2.9	24
30	Novel triaxial structure in low-lying states of neutron-rich nuclei around<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>â‰ˆ</mml:mo><mml:mn>100</mml:m Physical Review C, 2016, 93, .	2.9	23
31	48Si: An atypical nucleus?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 192-197.	4.1	22
32	Self-consistent tensor effects on nuclear matter systems within a relativistic Hartree-Fock approach. Physical Review C, 2015, 91, .	2.9	21
33	Relativistic Hartree-Fock model for axially deformed nuclei. Physical Review C, 2020, 101, .	2.9	21
34	Covariant density functional analysis of shape evolution inN= 40 isotones. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045108.	3.6	19
35	New magicity Nâ€¯=â€¯32 and 34 due to strong couplings between Dirac inversion partners. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135524.	4.1	19
36	Kinetic and potential parts of nuclear symmetry energy: the role of Fock terms. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 095101.	3.6	18

#	Article	IF	Citations
37	Effect of pairing correlations on nuclear low-energy structure: BCS and general Bogoliubov transformation. Physical Review C, 2013, 88, .	2.9	17
38	Nuclear effective charge factor originating from covariant density functional theory. Physical Review C, 2013, 87, .	2.9	15
39	Pseudospin symmetry restoration and the in-medium balance between nuclear attractive and repulsive interactions. Physical Review C, 2019, 100, .	2.9	15
40	Self-consistent random-phase approximation based on the relativistic Hartree-Fock theory: Role of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï</mml:mi></mml:math> -tensor coupling. Physical Review C, 2020, 101, .	2.9	12
41	Electric dipole polarizability in neutron-rich Sn isotopes as a probe of nuclear isovector properties. Physical Review C, 2021, 103, .	2.9	11
42	Relativistic Hartree-Fock-Bogoliubov model for axially deformed nuclei. Physical Review C, 2022, 105, .	2.9	10
43	Liquid-gas phase transition of thermal nuclear matter and the in-medium balance between nuclear attraction and repulsion. Physical Review C, 2021, 103, .	2.9	9
44	Unified nuclear matter equationsÂof state constrained by the in-medium balance in density-dependent covariant density functionals. Physical Review C, 2022, 105, .	2.9	8
45	Restoration of pseudo-spin symmetry in N = 32 and N = 34 isotonesdescribed by relativistic Hartree-Fock theory. Chinese Physics C, 2019, 43, 074107.	3.7	5
46	Exploring effects of tensor force and its strength via neutron drops *. Chinese Physics C, 2021, 45, 064103.	3.7	5
47	Nucleus-nucleus interaction between boosted nuclei. Physical Review C, 2011, 83, .	2.9	4
48	Impact of Fock terms on the isospin properties of nuclear matter. EPJ Web of Conferences, 2016, 117, 07011.	0.3	4
49	RECENT PROGRESS IN RELATIVISTIC MANY-BODY APPROACH. International Journal of Modern Physics E, 2006, 15, 1447-1464.	1.0	3
50	Relativistic random-phase-approximation description of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml: excitations with the inclusion of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Ï€</mml:mi></mml:math> mesons. Physical Review C, 2022, 105, .	2.9	3
51	Relativistic description of exotic nuclei and nuclear matter at extreme conditions. Physics of Atomic Nuclei, 2004, 67, 1619-1626.	0.4	2
52	Treating Coulomb exchange contributions in relativistic mean field calculations: why and how. Physica Scripta, 2014, 89, 054008.	2.5	2
53	Mass and lifetime of unstable nuclei in covariant density functional theory. Physica Scripta, 2013, T154, 014010.	2.5	1
54	Relativistic Hartree-Fock-Bogoliubov predictions of superheavy magic nuclei. Journal of Physics: Conference Series, 2015, 580, 012006.	0.4	1

#	Article	IF	Citations
55	Structure of nuclei far from the stability in relativistic approach. European Physical Journal: Special Topics, 2007, 150, 139-144.	2.6	0
56	Covariant density functional theory for exotic nuclei near the neutron drip-line. Journal of Physics: Conference Series, 2013, 413, 012005.	0.4	0
57	Superheavy magic nuclei in Relativistic Hartree-Fock-Bogoliubov theory. Journal of Physics: Conference Series, 2014, 533, 012002.	0.4	0
58	NEW INTERACTIONS, EXOTIC PHENOMENA AND SPIN SYMMETRY FOR ANTI-NUCLEON SPECTRUM IN RELATIVISTIC APPROACH. , 2005, , .		0
59	SUPERHEAVY MAGIC SHELLS WITHIN RELATIVISTIC HARTREE-FOCK-BOGOLIUBOV THEORY. , 2013, , .		0
60	DESCRIPTIONS OF CARBON ISOTOPES WITHIN DENSITY-DEPENDENT RELATIVISTIC HARTREE-FOCK-BOGOLIUBOV THEORY. , 2013, , .		0
61	NUCLEON-NUCLEON INTERACTION IN DENSITY-DEPENDENT RELATIVISTIC HARTREE-FOCK THEORY. , 2013, , .		0
62	ODD-EVEN MASS STAGGERING DESCRIBED BY RELATIVISTIC HARTREE-FOCK-BOGOLIUBOV THEORY. , 2013, , .		0