

Cheng-Jun Xia

List of Publications by Year in descending order

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37
all docs

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docs citations

37
times ranked

304
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic consistency, quark mass scaling, and properties of strange matter. Physical Review D, 2014, 89, .	1.6	59
2	Neutron star equation of state: Quark mean-field (QMF) modeling and applications. Journal of High Energy Astrophysics, 2020, 28, 19-46.	2.4	50
3	Constraints on the symmetry energy and its associated parameters from nuclei to neutron stars. Physical Review C, 2020, 101, .	1.1	41
4	Systematic study of survival probability of excited superheavy nuclei. Science China: Physics, Mechanics and Astronomy, 2011, 54, 109-113.	2.0	28
5	Relativistic mean-field approach for Λ hypernuclei. Physical Review C, 2018, 98, .	1.1	25
6	Strangeness and Λ resonance in compact stars with relativistic-mean-field models. Physical Review D, 2019, 99, .	1.6	25
7	Properties of strange quark matter objects with two types of surface treatments. Physical Review D, 2016, 93, .	1.6	22
8	From strangelets to strange stars: a unified description. Science Bulletin, 2016, 61, 172-177.	4.3	21
9	Massive neutron stars and Λ -hypernuclei in relativistic mean field models. Chinese Physics C, 2018, 42, 025101.	1.5	21
10	Constraining quark-hadron interface tension in the multimessenger era. Physical Review D, 2019, 99, .	1.6	21
11	Interface effects of strange quark matter with density dependent quark masses. Physical Review D, 2018, 98, .	1.6	20
12	Insights into the pion production mechanism and the symmetry energy at high density. Physical Review C, 2021, 103, .	1.1	19
13	Magnetized strange quark matter in a mass-density-dependent model. Chinese Physics C, 2015, 39, 015101.	1.5	18
14	Systematic study on the quark-hadron mixed phase in compact stars. Physical Review D, 2020, 102, .	1.6	18
15	Properties of strangelets in a new quark mass confinement model with one-gluon-exchange interaction. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1304-1310.	2.0	16
16	Magnetized strange quark matter in the equiparticle model with both confinement and perturbative interactions. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	1.3	16
17	Stable strange quark matter objects with running masses and coupling constant. Nuclear Physics B, 2017, 916, 669-687.	0.9	16
18	Nuclear pasta structures and symmetry energy. Physical Review C, 2021, 103, .	1.1	13

#	ARTICLE	IF	CITATIONS
19	Thermodynamics and susceptibilities of isospin imbalanced QCD matter. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	12
20	Stable Up-Down Quark Matter Nuggets, Quark Star Crusts, and a New Family of White Dwarfs. <i>Galaxies</i> , 2021, 9, 70.	1.1	10
21	Unified neutron star EOSs and neutron star structures in RMF models. <i>Communications in Theoretical Physics</i> , 2022, 74, 095303.	1.1	10
22	Supercritically charged objects and electron-positron pair creation. <i>Physical Review D</i> , 2020, 101, .	1.6	9
23	Strange quark matter: From strangelets to strange stars. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2016, 46, 012021.	0.2	9
24	A bag model of matter condensed by the strong interaction. <i>International Journal of Modern Physics E</i> , 2022, 31, .	0.4	9
25	Merging strangeon stars II: the ejecta and light curves. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 250.	0.7	8
26	Unified nuclear matter equations of state constrained by the in-medium balance in density-dependent covariant density functionals. <i>Physical Review C</i> , 2022, 105, .	1.1	8
27	Properties of strangelets at zero temperature in a new quark mass confinement model. <i>International Journal of Modern Physics E</i> , 2014, 23, 1450013.	0.4	4
28	A unified description for strange quark matter objects. <i>Journal of Physics: Conference Series</i> , 2017, 861, 012022.	0.3	4
29	Color-flavor locked strangelets with confinement and perturbative interactions. <i>International Journal of Modern Physics E</i> , 2018, 27, 1850037.	0.4	4
30	Interface effects of strange quark matter. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	4
31	Exploring detection of nuclearites in a large liquid scintillator neutrino detector. <i>Physical Review D</i> , 2017, 95, .	1.6	3
32	Nuclear Matter, Quarkyonic Matter, and Phase Transitions in Hybrid Stars. , 2018, , .		3
33	Strangelets at finite temperature in a baryon density-dependent quark mass model. <i>Physical Review D</i> , 2022, 105, .	1.6	3
34	Strange quark matter and proto-strange stars in a baryon density-dependent quark mass model *. <i>Chinese Physics C</i> , 2022, 46, 055102.	1.5	3
35	Quark condensate and chiral symmetry restoration in neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 829, 137121.	1.5	2
36	Quark Matter and Quark Stars. , 2018, , .		1

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37	Finite Size Effect on the in-Medium Chiral Condensate at Finite Density. Chinese Physics Letters, 2014, 31, 041101.	1.3	0