

Jun Xu

List of Publications by Year in descending order

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86
papers

2,781
citations

172457

29
h-index

182427

51
g-index

86
all docs

86
docs citations

86
times ranked

2862
citing authors

#	ARTICLE	IF	CITATIONS
1	Density slope of the nuclear symmetry energy from the neutron skin thickness of heavy nuclei. <i>Physical Review C</i> , 2010, 82, .	2.9	217
2	NUCLEAR CONSTRAINTS ON PROPERTIES OF NEUTRON STAR CRUSTS. <i>Astrophysical Journal</i> , 2009, 697, 1549-1568.	4.5	205
3	Higher-order effects on the incompressibility of isospin asymmetric nuclear matter. <i>Physical Review C</i> , 2009, 80, .	2.9	163
4	Nucleon effective masses in neutron-rich matter. <i>Progress in Particle and Nuclear Physics</i> , 2018, 99, 29-119.	14.4	141
5	Combined Constraints on the Equation of State of Dense Neutron-rich Matter from Terrestrial Nuclear Experiments and Observations of Neutron Stars. <i>Astrophysical Journal</i> , 2018, 859, 90.	4.5	118
6	Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV in a multiphase transport model. <i>Physical Review C</i> , 2011, 83, .	2.9	112
7	Understanding transport simulations of heavy-ion collisions at $\sqrt{s_{NN}} = 100$ and 400 GeV. Comparison of heavy-ion transport codes under controlled conditions. <i>Physical Review C</i> , 2016, 93, .	2.9	105
8	Locating the inner edge of the neutron star crust using terrestrial nuclear laboratory data. <i>Physical Review C</i> , 2009, 79, .	2.9	94
9	Comparison of heavy-ion transport simulations: Collision integral in a box. <i>Physical Review C</i> , 2018, 97, .	2.9	91
10	Triangular flow in heavy ion collisions in a multiphase transport model. <i>Physical Review C</i> , 2011, 84, .	2.9	76
11	Temperature effects on the nuclear symmetry energy and symmetry free energy with an isospin and momentum dependent interaction. <i>Physical Review C</i> , 2007, 75, .	2.9	61
12	Effects of triangular flow on di-hadron azimuthal correlations in relativistic heavy ion collisions. <i>Physical Review C</i> , 2011, 83, .	2.9	60
13	Comparison of heavy-ion transport simulations: Collision integral with pions and ρ resonances in a box. <i>Physical Review C</i> , 2019, 100, .	2.9	60
14	Elliptic Flow Splitting as a Probe of the QCD Phase Structure at Finite Baryon Chemical Potential. <i>Physical Review Letters</i> , 2014, 112, 012301.	7.8	56
15	Transport model comparison studies of intermediate-energy heavy-ion collisions. <i>Progress in Particle and Nuclear Physics</i> , 2022, 125, 103962.	14.4	55
16	Effects of hadronic potentials on elliptic flows in relativistic heavy ion collisions. <i>Physical Review C</i> , 2012, 85, .	2.9	53
17	Generic constraints on the relativistic mean-field and Skyrme-Hartree-Fock models from the pure neutron matter equation of state. <i>Physical Review C</i> , 2012, 86, .	2.9	50
18	Constraining simultaneously nuclear symmetry energy and neutron-proton effective mass splitting with nucleus giant resonances using a dynamical approach. <i>Physical Review C</i> , 2017, 95, .	2.9	46

#	ARTICLE	IF	CITATIONS
19	How tightly is the nuclear symmetry energy constrained by a unitary Fermi gas?. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	46
20	Transport approaches for the description of intermediate-energy heavy-ion collisions. Progress in Particle and Nuclear Physics, 2019, 106, 312-359.	14.4	46
21	Effects of isospin and momentum dependent interactions on thermal properties of asymmetric nuclear matter. Physical Review C, 2008, 77, .	2.9	41
22	Symmetry energy investigation with pion production from Sn+Sn systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136016.	4.1	40
23	Effects of isospin and momentum dependent interactions on liquidâ€“gas phase transition in hot asymmetric nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 348-353.	4.1	39
24	Higher-order anisotropic flows and dihadron correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV in a multiphase transport model. Physical Review C, 2011, 84, .	2.9	39
25	Comparison of heavy-ion transport simulations: Mean-field dynamics in a box. Physical Review C, 2021, 104, .	2.9	38
26	Probing isospin- and momentum-dependent nuclear effective interactions in neutron-rich matter. European Physical Journal A, 2014, 50, 1.	2.5	37
27	Thermal properties of asymmetric nuclear matter with an improved isospin- and momentum-dependent interaction. Physical Review C, 2015, 91, .	2.9	37
28	Isospin- and momentum-dependent effective interactions for the baryon octet and the properties of hybrid stars. Physical Review C, 2010, 81, .	2.9	34
29	Energy dependence of pion in-medium effects on the \bar{K}^0 production yield in heavy-ion collisions: Bayesian inference of nuclear symmetry energy from measured and imagined neutron skin thickness in ^{136}Xe . Physical Review C, 2013, 87, .	2.9	32
30	Bayesian inference of nuclear symmetry energy from measured and imagined neutron skin thickness in ^{136}Xe . Physical Review C, 2020, 102, .	2.9	28
31	Isospin-dependent pion in-medium effects on the charged-pion ratio in heavy ion collisions. Physical Review C, 2010, 81, .	2.9	25
32	Influence of neutron-skin thickness on the \bar{K}^0 production yield in Pb + Pb collisions. Physical Review C, 2014, 90, .	2.9	25
33	Bayesian inference of nuclear symmetry energy from measured and imagined neutron skin thickness in ^{136}Xe . Physical Review C, 2020, 102, .	4.1	25
34	Reexamination of the neutron-to-proton-ratio puzzle in intermediate-energy heavy-ion collisions. Physical Review C, 2015, 91, .	2.9	24
35	Differential isospin-fractionation in dilute asymmetric nuclear matter. Physical Review C, 2007, 76, .	2.9	19
36	Density matrix expansion for the isospin- and momentum-dependent MDI interaction. Physical Review C, 2010, 82, .	2.9	19

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37	Shear viscosity of neutron-rich nucleonic matter near its liquid-gas phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 244-248.	4.1	18
38	Chemical freeze-out in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 290-293.	4.1	18
39	Probing in-medium spin-orbit interaction with intermediate-energy heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 346-350.	4.1	17
40	Breaking the EOS-gravity degeneracy with masses and pulsating frequencies of neutron stars. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 075203.	3.6	17
41	Isospin properties of quark matter from a 3-flavor NJL model. Physical Review D, 2016, 94, .	4.7	15
42	Laser test of the prototype of CEE time projection chamber. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	15
43	Spin-orbit coupling and the up-down differential transverse flow in intermediate-energy heavy-ion collisions. Physical Review C, 2014, 89, .	2.9	14
44	Collision energy dependence of elliptic flow splitting between particles and their antiparticles from an extended multiphase transport model. Physical Review C, 2016, 94, .	2.9	14
45	Revisiting directed flow in relativistic heavy-ion collisions from a multiphase transport model. European Physical Journal A, 2017, 53, 1.	2.5	14
46	Simulating the chiral magnetic wave in a box system. Physical Review C, 2018, 98, .	2.9	14
47	Isospin splitting of pion elliptic flow in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 135002.	4.1	14
48	Imprints of Nuclear Symmetry Energy on Properties of Neutron Stars. Journal of Physics: Conference Series, 2011, 312, 042006.	0.4	13
49	Constraining isovector nuclear interactions with giant resonances within a Bayesian approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 810, 135820.	4.1	13
50	Constraining Isovector Nuclear Interactions with Giant Dipole Resonance and Neutron Skin in ^{208}Pb from a Bayesian Approach. Chinese Physics Letters, 2021, 38, 042101.	3.3	13
51	Energy release from hadron-quark phase transition in neutron stars and the axial mode of gravitational waves. Physical Review C, 2011, 83, .	2.9	12
52	Isospin splitting of nucleon effective mass and shear viscosity of nuclear matter. Physical Review C, 2015, 91, .	2.9	11
53	Simulating chiral anomalies with spin dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134932.	4.1	11
54	Density of states of a two-dimensional XY model from the Wang-Landau algorithm. Physical Review E, 2007, 75, 041115.	2.1	10

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55	Transition density and pressure in hot neutron stars. <i>Physical Review C</i> , 2010, 81, .	2.9	10
56	Dynamical effects of spin-dependent interactions in low- and intermediate-energy heavy-ion reactions. <i>Frontiers of Physics</i> , 2015, 10, 1.	5.0	10
57	Spin transport in intermediate-energy heavy-ion collisions as a probe of in-medium spin-orbit interactions. <i>Nuclear Physics A</i> , 2016, 955, 41-57.	1.5	10
58	Nucleus giant resonances from an improved isospin-dependent Boltzmann-Uehling-Uhlenbeck transport approach. <i>Physical Review C</i> , 2020, 102, .	2.9	10
59	Nuclear matter properties at finite temperatures from effective interactions. <i>Physical Review C</i> , 2019, 100, .	2.9	9
60	Non-flow effects in three-particle mixed-harmonic azimuthal correlations in small collision systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 792, 138-141.	4.1	9
61	Properties of strange quark stars with isovector interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 803, 135343.	4.1	9
62	Symmetry energy effects on the properties of hybrid stars. <i>Physical Review D</i> , 2022, 105, .	4.7	9
63	Charge asymmetry dependence of the elliptic flow splitting in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2019, 99, .	2.9	8
64	Bayesian inference of finite-nuclei observables based on the KIDS model. <i>Physical Review C</i> , 2022, 105, .	2.9	8
65	Specific viscosity of neutron-rich nuclear matter from a relaxation time approach. <i>Physical Review C</i> , 2011, 84, .	2.9	6
66	Equations of motion of test particles for solving the spin-dependent Boltzmann-Vlasov equation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 759, 596-600.	4.1	6
67	Enhanced yield ratio of light nuclei in heavy ion collisions with a first-order chiral phase transition. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	6
68	Pure Neutron Matter Constraints and Nuclear Symmetry Energy. <i>Journal of Physics: Conference Series</i> , 2013, 420, 012108.	0.4	5
69	Investigating the scaling of higher-order flows in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2016, 93, .	2.9	5
70	Effects of hadronic mean-field potentials on Hanbury-Brown-Twiss correlations in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2017, 96, .	2.9	5
71	Directed flow in an extended multiphase transport model. <i>Physical Review C</i> , 2018, 98, .	2.9	5
72	Bayesian uncertainty quantification for nuclear matter incompressibility. <i>Physical Review C</i> , 2021, 104, .	2.9	5

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73	Constraining the EOS of Neutron-Rich Nuclear Matter and Properties of Neutron Stars with Heavy-Ion Reactions. , 2009, , .		4
74	Disentangling effects of collision geometry and symmetry energy in U+U collisions. Physical Review C, 2012, 86, .	2.9	4
75	Nucleon spin polarization in intermediate-energy heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135130.	4.1	4
76	Isospin Effect on Baryon and Charge Fluctuations from the pNJL Model. Universe, 2021, 7, 6.	2.5	4
77	Three-dimensional QCD phase diagram with a pion condensate in the NJL model. Physical Review D, 2021, 104, .	4.7	4
78	Reexamining the isospin-relaxation time in intermediate-energy heavy-ion collisions. Physical Review C, 2018, 98, .	2.9	3
79	Isospin effect on quark matter instabilities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136694.	4.1	3
80	ISOSPIN AND MOMENTUM DEPENDENCE OF LIQUID-GAS PHASE TRANSITION IN HOT ASYMMETRIC NUCLEAR MATTER. International Journal of Modern Physics E, 2008, 17, 1917-1926.	1.0	2
81	TRANSITION DENSITY AND PRESSURE AT THE INNER EDGE OF NEUTRON STAR CRUSTS. International Journal of Modern Physics E, 2010, 19, 1705-1711.	1.0	2
82	Simulating spin dynamics with spin-dependent cross sections in heavy-ion collisions. Physical Review C, 2017, 96, .	2.9	2
83	Hadronization using the Wigner function approach for a multiphase transport model. Physical Review C, 2019, 100, .	2.9	2
84	INCOMPRESSIBILITY OF ASYMMETRIC NUCLEAR MATTER. International Journal of Modern Physics E, 2010, 19, 1675-1685.	1.0	1
85	Elliptic flow splittings in the Polyakovâ€Nambuâ€Jona-Lasinio transport model. Physical Review C, 2021, 104, .	2.9	1
86	Nuclear constraints on the inner edge of neutron star crusts. Nuclear Physics A, 2010, 834, 664c-666c.	1.5	0