

Gao-Chan Yong

List of Publications by Year in descending order

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70
papers

1,266
citations

394421

19
h-index

377865

34
g-index

71
all docs

71
docs citations

71
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Circumstantial Evidence for a Soft Nuclear Symmetry Energy at Suprasaturation Densities. Physical Review Letters, 2009, 102, 062502.	7.8	290
2	Near-threshold pion production with radioactive beams. Physical Review C, 2005, 71, .	2.9	103
3	Double neutron/proton ratio of nucleon emissions in isotopic reaction systems as a robust probe of nuclear symmetry energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 378-382.	4.1	76
4	Single and double \bar{K}^0/K^+ ratios in heavy-ion reactions as probes of the high-density behavior of the nuclear symmetry energy. Physical Review C, 2006, 73, .	2.9	55
5	Probing nuclear symmetry energy at high densities using pion, kaon, eta and photon productions in heavy-ion collisions. European Physical Journal A, 2014, 50, 1.	2.5	34
6	Double neutron-proton differential transverse flow as a probe for the high density behavior of the nuclear symmetry energy. Physical Review C, 2006, 74, .	2.9	33
7	Probing the nuclear symmetry energy with heavy-ion reactions induced by neutron-rich nuclei. Frontiers of Physics in China, 2007, 2, 327-357.	1.0	32
8	The neutron/proton ratio of squeezed-out nucleons and the high density behavior of the nuclear symmetry energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 344-347.	4.1	30
9	Systematic study of the ^3He relative and differential flows as probes of the nuclear symmetry energy at supra-saturation densities. Physical Review C, 2009, 80, .	2.9	30
10	Systematic study of the ^3He relative and differential flows as probes of the nuclear symmetry energy at supra-saturation densities. Physical Review C, 2009, 80, .	2.9	30
11	Isospin dependence of nucleon emission and radial flow in heavy-ion collisions induced by high energy radioactive beams. Physical Review C, 2005, 71, .	2.9	27
12	Neutron \rightarrow proton bremsstrahlung from intermediate energy heavy-ion reactions as a probe of the nuclear symmetry energy?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 661, 82-87.	4.1	24
13	Effects of pion potential and nuclear symmetry energy on the ^3He relative and differential flows in heavy-ion collisions at beam energies around the pion production threshold. Physical Review C, 2015, 91, .	2.9	24
14	Constraining nucleon high momentum in nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 104-108.	4.1	23
15	Interplay of short-range correlations and nuclear symmetry energy in hard-photon production from heavy-ion reactions at Fermi energies. Physical Review C, 2017, 96, .	2.9	22
16	Cross-checking the symmetry energy at high densities. Physical Review C, 2016, 93, .	2.9	20
17	Modeling pion production in heavy-ion collisions at intermediate energies. Physical Review C, 2017, 96, .	2.9	20
18	Differential isospin-fractionation in dilute asymmetric nuclear matter. Physical Review C, 2007, 76, .	2.9	19

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19	Imprints of high-momentum nucleons in nuclei on hard photons from heavy-ion collisions near the Fermi energy. <i>Physical Review C</i> , 2021, 104, .	2.9	19
20	Effect of the momentum dependence of the nuclear symmetry potential on the $\langle \sigma_{NN} \rangle$ in heavy-ion collisions. <i>Physical Review C</i> , 2011, 83, .	2.9	18
21	Effects of nuclear symmetry energy on \hat{I} -meson production and its rare decay to the dark U-boson in heavy-ion reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 388-392.	4.1	18
22	Effect of the momentum dependence of nuclear symmetry potential on the transverse and elliptic flows. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	17
23	Model dependence of isospin sensitive observables at high densities. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 211-217.	4.1	17
24	Double strangeness $\hat{I}\hat{z}$ production as a probe of nuclear equation of state at high densities. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 820, 136521.	4.1	15
25	A direct probe of the in-medium pn scattering cross section. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 705, 240-243.	4.1	14
26	Probing proton transition momentum in neutron-rich matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 776, 447-450.	4.1	14
27	Medium effects on π^+/π^- in heavy-ion collisions at intermediate energies. <i>European Physical Journal A</i> , 2010, 46, 399-402.	2.5	13
28	Effect of \hat{I} potential on the $\langle \sigma_{NN} \rangle / \langle \sigma_{NN} \rangle$ ratio in heavy-ion collisions at intermediate energies. <i>Physical Review C</i> , 2015, 92, .	2.9	13
29	Decomposition of the sensitivity of the symmetry energy observables. <i>Physical Review C</i> , 2015, 91, .	2.9	13
30	Neutron \hat{I} proton bremsstrahlung as a possible probe of high-momentum component in nucleon momentum distribution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 755, 486-490.	4.1	13
31	Effects of nuclear symmetry energy and in-medium NN cross section in heavy-ion collisions at beam energies below the pion production threshold. <i>Physical Review C</i> , 2014, 90, .	2.9	12
32	Symmetry energy extracted from the pion data in ^{132}Sn systems. <i>Physical Review C</i> , 2021, 104, .	2.9	12
33	Effects of retarded electrical fields on observables sensitive to the high-density behavior of the nuclear symmetry energy in heavy-ion collisions at intermediate energies. <i>Physical Review C</i> , 2018, 97, .	2.9	10
34	DETERMINING THE DENSITY DEPENDENCE OF THE NUCLEAR SYMMETRY ENERGY USING HEAVY-ION REACTIONS. <i>International Journal of Modern Physics E</i> , 2008, 17, 1825-1837.	1.0	9
35	Effects of the high-momentum tail of nucleon momentum distribution on the isospin-sensitive observables. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	9
36	Effects of the symmetry energy in the $^{132}\text{Sn} + ^{124}\text{Sn}$ reaction at 300 MeV/nucleon. <i>Physical Review C</i> , 2016, 94, .	2.9	9

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37	Probing nuclear bubble configurations by proton-induced reactions. Physical Review C, 2019, 99, .	2.9	9
38	Nuclear symmetry energy and proton-rich reactions at intermediate energies. Physical Review C, 2011, 84, .	2.9	8
39	Probing the momentum dependence of the symmetry potential by the free $\frac{n}{p}$ ratio of pre-equilibrium emission. Physical Review C, 2015, 91, .	2.9	7
40	Hollow nuclear matter. Physical Review C, 2016, 93, .	2.9	7
41	Beam-energy dependence of the relativistic retardation effects of electrical fields on the $\frac{K}{\epsilon}$ ratio in heavy-ion collisions. Physical Review C, 2018, 98, .	2.9	7
42	Determination of the density region of the symmetry energy probed by the $\frac{\pi^-}{\pi^+}$ ratio. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 105105.	3.6	7
43	High- p squeezed-out $\frac{n}{p}$ ratio as a probe of $\frac{K}{p}$ ratio in heavy-ion collisions. Physical Review C, 2019, 99, .	2.9	7
44	Can the nuclear symmetry potential at supra-saturation densities be negative?. Physical Review C, 2010, 81, .	2.9	6
45	Initialization effect in heavy-ion collisions at intermediate energies. Physical Review C, 2011, 84, .	2.9	6
46	Probing nuclear bubble configuration by the $\frac{\pi^-}{\pi^+}$ ratio in heavy-ion collisions. European Physical Journal A, 2016, 52, 1.	2.5	6
47	Probing the density dependence of the symmetry energy by nucleon flow. Physical Review C, 2018, 97, .	2.9	6
48	Probing the boundary of phase transition of nuclear matter using proton flows in heavy-ion collisions at 2-8 GeV/nucleon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136138.	4.1	6
49	Probing Nuclear Symmetry Energy with the Sub-threshold Pion Production. Chinese Physics Letters, 2012, 29, 052502.	3.3	5
50	Influence of the nuclear symmetry energy on the collective flows of charged pions. Physical Review C, 2018, 97, .	2.9	5
51	Effects of the initialization of nucleon momentum in heavy-ion collisions at medium energies. Physical Review C, 2018, 98, .	2.9	5
52	Constraining the EOS of Neutron-Rich Nuclear Matter and Properties of Neutron Stars with Heavy-Ion Reactions. , 2009, , .		4
53	TRITON-3HE RELATIVE AND DIFFERENTIAL FLOWS AND THE HIGH DENSITY BEHAVIOR OF NUCLEAR SYMMETRY ENERGY. International Journal of Modern Physics E, 2010, 19, 1647-1652.	1.0	4
54	Nuclear collision in strong magnetic field. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 249-253.	4.1	4

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55	Effects of elastic and inelastic scattering cross sections on NN scattering cross sections on NN. $\sigma_{\text{el}} + \sigma_{\text{in}} = \sigma_{\text{tot}}$	2.9	3
56	Blind spots of probing the high-density symmetry energy in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 422-425.	4.1	3
57	Quiescent luminosities of transiently accreting neutron stars with neutrino heating due to charged pion decay. Physical Review D, 2021, 104, .	4.7	3
58	Constraining properties of neutron stars with heavy-ion reactions in terrestrial laboratories. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014044.	3.6	2
59	A possible probe of the new fifth force. European Physical Journal A, 2018, 54, 1.	2.5	2
60	Pion production and absorption in heavy-ion collisions. Physical Review C, 2021, 104, .	2.9	2
61	Recent Progress in Constraining the Equation of State of Dense Neutron-Rich Nuclear Matter with Heavy-Ion Reactions. Nuclear Physics A, 2010, 834, 509c-514c.	1.5	1
62	Effects of Symmetry Energy in the Reaction $^{40}\text{Ca} + ^{124}\text{Sn}$ at 140 MeV/Nucleon. Chinese Physics Letters, 2012, 29, 052501.	3.3	1
63	Probing the in-medium nucleon-nucleon inelastic scattering cross section by using an energy-dependent n/p ratio. Physical Review C, 2021, 103, .	2.9	1
64	Nucleon momentum gap in asymmetric nuclear matter. Physical Review C, 2022, 105, .	2.9	1
65	Progress towards Determining the Density Dependence of the Nuclear Symmetry Energy Using Heavy-Ion Reactions. Acta Physica Hungarica A Heavy Ion Physics, 2006, 25, 219-228.	0.4	0
66	System size and beam energy effects on probing the high-density behavior of nuclear symmetry energy with pion ratio. Nuclear Physics A, 2010, 834, 567c-570c.	1.5	0
67	Pion production by protons and ^3He on a ^{197}Au target at beam energies of 2.8, 5, 10, and 16.587 GeV/nucleon. Physical Review C, 2012, 85, .	2.9	0
68	Effects of the magnetic field on the spallation reaction implemented by BUU coupled with a phase-space coalescence afterburner. Europhysics Letters, 2012, 99, 42001.	2.0	0
69	Nucleon Emission Number as a Probe of Isospin-Dependent $N \rightarrow N$ Cross Section in Photonuclear Reactions. Chinese Physics Letters, 2014, 31, 102501.	3.3	0
70	PROBING THE HIGH DENSITY BEHAVIOR OF THE SYMMETRY ENERGY. , 2008, , .		0