

# Song Zhang

## List of Publications by Year in descending order

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63  
papers

2,345  
citations

394421

19  
h-index

206112

48  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct, Nonoxidative Conversion of Methane to Ethylene, Aromatics, and Hydrogen. <i>Science</i> , 2014, 344, 616-619.	12.6	1,113
2	Observation of an Antimatter Hypernucleus. <i>Science</i> , 2010, 328, 58-62.	12.6	249
3	Searching for onset of deconfinement via hypernuclei and baryon-strangeness correlations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 684, 224-227.	4.1	71
4	Di-hadron azimuthal correlation and Mach-like cone structure in a parton/hadron transport model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 641, 362-367.	4.1	64
5	Conceptual design of the HIRFL-CSR external-target experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	59
6	Tuning the redox activity of encapsulated metal clusters via the metallic and semiconducting character of carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14861-14866.	7.1	58
7	Vorticity in low-energy heavy-ion collisions. <i>Physical Review C</i> , 2020, 101, .	2.9	46
8	Initial fluctuation effect on harmonic flows in high-energy heavy-ion collisions. <i>Physical Review C</i> , 2011, 84, .	2.9	45
9	Nuclear cluster structure effect on elliptic and triangular flows in heavy-ion collisions. <i>Physical Review C</i> , 2017, 95, .	2.9	38
10	Production of light (anti)nuclei, (anti)hypertriton, and di- $\Lambda$ in central Au+Au collisions at energies available at the BNL Relativistic Heavy Ion Collider. <i>Physical Review C</i> , 2012, 85, .	2.9	33
11	Production of multistrange hadrons, light nuclei and hypertriton in central Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 754, 6-10.	4.1	31
12	Charm hadron azimuthal angular correlations in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV from parton scatterings. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1.	3.4	28
13	Breaking of the number-of-constituent-quark scaling for identified-particle elliptic flow as a signal of phase change in low-energy data taken at the BNL Relativistic Heavy Ion Collider (RHIC). <i>Physical Review C</i> , 2009, 79, .	2.9	25
14	Methods for a blind analysis of isobar data collected by the STAR collaboration. <i>Nuclear Science and Techniques/Hewuli</i> , 2021, 32, 1.	3.4	25
15	$\Lambda^0$ and $\bar{\Lambda}^0$ production in Au+Au collisions at $\sqrt{s_{NN}} = 11.5$ GeV. <i>Nuclear Science and Techniques/Hewuli</i> , 2018, 29, 1.	3.4	24
16	Production of light nuclei and hypernuclei at High Intensity Accelerator Facility energy region. <i>Nuclear Science and Techniques/Hewuli</i> , 2017, 28, 1.	3.4	22
17	Signatures of $\Lambda^0$ clustering in $\Lambda^0$ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 754, 6-10.	2.9	21
18	Transverse momentum and pseudorapidity dependences of Mach-like correlations for central Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. <i>Physical Review C</i> , 2007, 76, .	2.9	19

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19	Explore the QCD phase transition phenomena from a multiphase transport model. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	19
20	Clustering structure effect on Hanbury-Brown-Twiss correlation in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal A, 2020, 56, 1.	2.5	18
21	Collective flows of $\alpha$ -clustering $^{12}\text{C} + ^{197}\text{Au}$ by using different flow analysis methods. European Physical Journal A, 2018, 54, 1.	2.5	17
22	Influence of $\alpha$ -clustering nuclear structure on the rotating collision system. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	17
23	Laser test of the prototype of CEE time projection chamber. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	15
24	Constraining the Chiral Magnetic Effect with charge-dependent azimuthal correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
25	Electromagnetic field from asymmetric to symmetric heavy-ion collisions at 200 GeV. Physical Review C, 2019, 99, .	2.9	14
26	Machine-learning-based identification for initial clustering structure in relativistic heavy-ion collisions. Physical Review C, 2021, 104, .	2.9	14
27	Collision system size scan of collective flows in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 804, 135366.	4.1	13
28	Production of Kaon and Nucleus-Nucleus Collisions at Ultrarelativistic Energy from a Blast-Wave Model. Advances in High Energy Physics, 2015, 2015, 1-6.	1.1	12
29	$\alpha$ -clustered $^{12}\text{C} + ^{197}\text{Au}$ collisions in central heavy-ion collisions. Physical Review C, 2019, 99, .	2.9	12
30	Reaction plane angle dependence of dihadron azimuthal correlations from a multiphase transport model calculation. Physical Review C, 2009, 80, .	2.9	11
31	Two-particle angular correlations in $^{12}\text{C} + ^{197}\text{Au}$ collisions at energies available at the CERN Large Hadron Collider from a multiphase transport model. Physical Review C, 2019, 99, .	2.9	11
32	System dependence of away-side broadening and $\alpha$ -clustering light nuclei structure effect in dihadron azimuthal correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 831, 137198.	4.1	11
33	Pion correlations for $^{12}\text{C} + ^{197}\text{Au}$ on lanthanum. Physical Review C, 1993, 47, 779-787.	2.9	10
34	Beam Energy Dependence of Hanbury-Brown-Twiss Radii from a Blast-Wave Model. Advances in High Energy Physics, 2016, 2016, 1-10.	1.1	10
35	$\alpha$ -dibaryon production with hadron interaction potential from the lattice QCD in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135867.	4.1	10
36	Thermal photons as a sensitive probe of $\alpha$ -cluster in $\text{C} + \text{Au}$ collisions at the BNL Relativistic Heavy Ion Collider. European Physical Journal A, 2021, 57, 1.	2.5	10

#	ARTICLE	IF	CITATIONS
37	Interpreting the charge-dependent flow and constraining the chiral magnetic wave with event shape engineering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136580.	4.1	10
38	Longitudinal broadening of near-side jets due to parton cascade. European Physical Journal C, 2008, 57, 589-593.	3.9	9
39	$\langle v_2 \rangle$ and $\langle v_3 \rangle$ in Au + Au collisions at and 11.5 GeV from a multiphase transport model. Chinese Physics C, 2017, 41, 084101.	3.7	9
40	Two-particle angular correlations in heavy ion collisions from a multiphase transport model. Physical Review C, 2019, 99, .	2.9	9
41	Charge asymmetry dependence of flow and a novel correlator to detect the chiral magnetic wave in a multiphase transport model. Physical Review C, 2019, 100, .	2.9	9
42	System evolution of forward-backward multiplicity correlations in a multiphase transport model. Physical Review C, 2021, 104, .	2.9	8
43	Baryon-strangeness correlations in parton/hadron transport model for Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Journal of Physics C: Nuclear and Particle Physics, 2008, 35, 044070.	3.6	7
44	Production and ratio of $\bar{K}, K, p,$ and $\bar{D}$ in Pb + Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2014, 89, .	2.9	7
45	Low-mass vector meson production at forward rapidity in p+p and d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV from a multiphase transport model. Nuclear Science and Techniques/Hewuli, 2016, 27, 1.	3.4	7
46	Scaling of nuclear modification factors for hadrons and light nuclei. European Physical Journal A, 2016, 52, 1.	2.5	6
47	Collision centrality and system size dependences of light nuclei production via dynamical coalescence mechanism. European Physical Journal A, 2021, 57, 1.	2.5	6
48	$\bar{K}$ -meson production at forward/backward rapidity in high-energy nuclear collisions from a multiphase transport model. Physical Review C, 2016, 93, .	2.9	5
49	System size dependence of baryon-strangeness correlation in relativistic heavy ion collisions from a multiphase transport model. Physical Review C, 2021, 103, .	2.9	5
50	Azimuthal-sensitive three-dimensional HBT radius in Au+Au collisions at $\sqrt{s_{beam}} = 1.23$ A GeV by the IQMD model. European Physical Journal A, 2022, 58, .	2.5	5
51	Simulation of energy scan of pion interferometry in central Au+Au collisions at relativistic energies. Chinese Physics C, 2014, 38, 014102.	3.7	4
52	Nuclear system size scan for freeze-out properties in relativistic heavy-ion collisions by using a multiphase transport model. Physical Review C, 2020, 101, .	2.9	4
53	Searching for $\langle \cos(\Delta\phi) \rangle$ via the momentum-correlation function of $\langle \cos(\Delta\phi) \rangle$	2.9	4
54	Production of $\langle \cos(\Delta\phi) \rangle$ and $\langle \cos(\Delta\phi) \rangle$ in ultra-relativistic heavy-ion collisions. European Physical Journal C, 2022, 82, 1.	3.9	4

#	ARTICLE	IF	CITATIONS
55	Impact of nuclear structure on the background in the chiral magnetic effect in $Ru+Ru$ collisions at $\sqrt{s_{NN}}=4.4$ and $9.6$ GeV. Physical Review C, 2022, 106, .	2.9	4
56	System-size scan of dihadron azimuthal correlations in ultra-relativistic heavy ion collisions. Nuclear Physics A, 2011, 860, 76-83.	1.5	3
57	System scan of the multiplicity correlation between forward and backward rapidities in relativistic heavy-ion collisions using a multi-phase transport model *. Chinese Physics C, 2022, 46, 044101.	3.7	3
58	Forward-backward elliptic anisotropy correlations in parton cascades. Physical Review C, 2011, 83, .	2.9	2
59	Extraction of dihadron-jet correlations with rigorous flow-background subtraction in a multiphase transport model. Physical Review C, 2013, 87, .	2.9	2
60	HYPERNUCLEUS PRODUCTION AT RHIC AND HIRFL-CSR ENERGY. International Journal of Modern Physics E, 2010, 19, 1829-1836.	1.0	1
61	Azimuthal correlations of hadrons in a partonic/hadronic transport model. AIP Conference Proceedings, 2006, , .	0.4	0
62	CENTRALITY, TRANSVERSE MOMENTUM AND PSEUDORAPIDITY DEPENDENCES OF $\phi$ -MACH-LIKE CORRELATIONS IN A PARTONIC TRANSPORT MODEL. International Journal of Modern Physics E, 2007, 16, 2029-2034.	1.0	0
63	PHENOMENOLOGICAL STUDY OF LIGHT (ANTI)NUCLEI, (ANTI)HYPERTRITON AND DI-LAMBDA PRODUCTION AT RHIC. , 2013, , .		0