

Huichao Song

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3715999/publications.pdf>

Version: 2024-02-01

51
papers

3,840
citations

172457

29
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

3192
citing authors

#	ARTICLE	IF	CITATIONS
1	Causal viscous hydrodynamics in 2 + 1 dimensions for relativistic heavy-ion collisions. Physical Review C, 2008, 77, .	2.9	393
2	200<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">GeV</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math></math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$Collisions$</math> Serve a Nearly Perfect Quark-Gluon Liquid. Physical Review Letters, 2011, 106, 192301.	7.8	380
3	Suppression of elliptic flow in a minimally viscous quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 279-283.	4.1	340
4	The iEBE-VISHNU code package for relativistic heavy-ion collisions. Computer Physics Communications, 2016, 199, 61-85.	7.5	302
5	Multiplicity scaling in ideal and viscous hydrodynamics. Physical Review C, 2008, 78, .	2.9	227
6	Radial and elliptic flow in Pb<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$+$</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Pb</math> collisions at energies available at the CERN Large Hadron Collider from viscous hydrodynamics. Physical Review C, 2011, 84, .	2.9	183
7	Extracting the QGP viscosity from RHIC data—a status report from viscous hydrodynamics. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064033.	3.6	159
8	Dissipative hydrodynamics for viscous relativistic fluids. Physical Review C, 2006, 73, .	2.9	156
9	Viscous QCD matter in a hybrid hydrodynamic+Boltzmann approach. Physical Review C, 2011, 83, .	2.9	134
10	Systematic parameter study of hadron spectra and elliptic flow from viscous hydrodynamic simulations of Au<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$+$</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions at<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">200</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">GeV</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions and<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">200</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">GeV</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions	2.9	126
11	Au<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$+$</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions and<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">200</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">GeV</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions	2.9	109
12	Interplay of shear and bulk viscosity in generating flow in heavy-ion collisions. Physical Review C, 2010, 81, . Hadron spectra and elliptic flow for 200A<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">GeV</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Au</math> collisions from viscous hydrodynamics coupled to a Boltzmann cascade. Physical Review C, 2011, 83, .	2.9	107
13	Collective flow and hydrodynamics in large and small systems at the LHC. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	2.9	105
14	Collective flow and hydrodynamics in large and small systems at the LHC. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	92
15	Shear-Induced Spin Polarization in Heavy-Ion Collisions. Physical Review Letters, 2021, 127, 142301.	7.8	83
16	Collective flow in 2.76 and 5.02 A TeV Pb+Pb collisions. European Physical Journal C, 2017, 77, 1.	3.9	72
17	Spectra and elliptic flow for identified hadrons in<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">2.76</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$+$</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">5.02</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math><math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Pb</math> collisions. Physical Review C, 2014, 89, .	2.9	65
18	The viscosity of quark-gluon plasma at RHIC and the LHC. AIP Conference Proceedings, 2012, , .	0.4	58

#	ARTICLE	IF	CITATIONS
19	Hydrodynamic collectivity in proton–proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 495-500.	4.1	52
20	Hydrodynamic study of hyperon spin polarization in relativistic heavy ion collisions. Physical Review C, 2021, 103, .	2.9	48
21	QGP viscosity at RHIC and the LHC – a 2012 status report. Nuclear Physics A, 2013, 904-905, 114c-121c.	1.5	43
22	Correlated fluctuations near the QCD critical point. Physical Review C, 2016, 94, .	2.9	39
23	Correlations of flow harmonics in $^{2.76}\text{A} + ^{2.76}\text{A}$ TeV Pb-Pb collisions. Physical Review C, 2017, 95, .	2.9	38
24	High-order flow harmonics of identified hadrons in Pb + Pb collisions. Physical Review C, 2016, 93, .	2.9	37
25	Spectra and flow of light nuclei in relativistic heavy ion collisions at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider. Physical Review C, 2018, 98, .	2.9	34
26	Probing the Partonic Degrees of Freedom in High-Multiplicity $p + ^{A}\text{Pb}$ collisions at $\sqrt{s} = \sqrt{s_{NN}}$. Physical Review Letters, 2020, 125, 072301.	7.8	34
27	Investigation of possible hadronic flow in $^{5.02}\text{TeV} p + ^{A}\text{Pb}$ collisions. Physical Review C, 2015, 91, .	2.9	32
28	Hybrid model approach for strange and multistrange hadrons in $^{2.76}\text{ATeV} Pb + Pb$ collisions. Physical Review C, 2015, 91, .	2.9	32
29	Beam-energy dependence of the production of light nuclei in Au + Au collisions. Physical Review C, 2020, 102, .	2.9	26
30	Hydrodynamic modelling for relativistic heavy-ion collisions at RHIC and LHC. Pramana - Journal of Physics, 2015, 84, 703-715.	1.8	23
31	Principal component analysis of collective flow in relativistic heavy-ion collisions. European Physical Journal C, 2019, 79, 1.	3.9	21
32	Dynamically Exploring the QCD Matter at Finite Temperatures and Densities: A Short Review. Chinese Physics Letters, 2021, 38, 081201.	3.3	18
33	Viscous hydrodynamics with bulk viscosity – uncertainties from relaxation time and initial conditions. Nuclear Physics A, 2009, 830, 467c-470c.	1.5	17
34	Hydrodynamic modeling and the QGP shear viscosity. European Physical Journal A, 2012, 48, 1.	2.5	16
35	Physics perspectives of heavy-ion collisions at very high energy. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	15
36	Noncritical fluctuations of (net) charges and (net) protons from the iebe-vishnu hybrid model. Physical Review C, 2018, 97, .	2.9	15

#	ARTICLE	IF	CITATIONS
37	Multiplicity fluctuations of net protons on the hydrodynamic freeze-out surface. Nuclear Physics A, 2016, 956, 360-364.	1.5	14
38	Searching for small droplets of hydrodynamic fluid in proton-proton collisions at the LHC. European Physical Journal C, 2020, 80, 1.	3.9	14
39	Dynamical fluctuations in critical regime and across the 1st order phase transition. Nuclear Physics A, 2017, 967, 441-444.	1.5	13
40	Application of radial basis functions neural networks in spectral functions. Physical Review D, 2021, 104, .	4.7	13
41	Universal scaling of the $\langle \mathcal{I}_f \rangle$ field and net-protons from Langevin dynamics of model A. Physical Review C, 2019, 99, .	2.9	12
42	Applications of deep learning to relativistic hydrodynamics. Nuclear Physics A, 2019, 982, 927-930.	1.5	10
43	Applications of deep learning to relativistic hydrodynamics. Physical Review Research, 2021, 3, .	3.6	10
44	Investigations on mixed harmonic cumulants in heavy-ion collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2021, 104, .	2.9	5
45	Robustness of principal component analysis of harmonic flow in heavy ion collisions. Physical Review C, 2020, 102, .	2.9	4
46	Spectra and elliptic flow for \hat{p}_T , \hat{p}_z , and \hat{p}_ϕ in 200 A GeV Au+Au collisions. Journal of Physics: Conference Series, 2016, 668, 012080.	0.4	2
47	One fluid might not rule them all. Nuclear Physics A, 2021, 1005, 121908.	1.5	2
48	VISHNU hybrid model for the viscous QCD matter at RHIC and LHC energies. Open Physics, 2012, 10, .	1.7	0
49	Is hadronic flow produced in p-Pb collisions at the Large Hadron Collider?. EPJ Web of Conferences, 2016, 117, 03018.	0.3	0
50	Investigating the correlations of flow harmonics in 2.76A TeV Pb-Pb collisions. Journal of Physics: Conference Series, 2017, 779, 012062.	0.4	0
51	Number of constituent quark scaling of elliptic flows in high multiplicity p-Pb collisions at $\sqrt{s} = 5.02$ TeV. Nuclear Physics A, 2021, 1005, 121876.		