

Charles Gale

List of Publications by Year in descending order

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66
papers

4,456
citations

159585

30
h-index

133252

59
g-index

66
all docs

66
docs citations

66
times ranked

4009
citing authors

#	ARTICLE	IF	CITATIONS
1	Elliptic and Triangular Flow in Event-by-Event Hydrodynamics. Physical Review Letters, 2011, 106, 042301.	7.8	577
2	Event-by-Event Anisotropic Flow in Heavy-ion Collisions from Combined Yang-Mills and Viscous Fluid Dynamics. Physical Review Letters, 2013, 110, 012302.	7.8	456
3	(3+1)D hydrodynamic simulation of relativistic heavy-ion collisions. Physical Review C, 2010, 82, .	2.9	327
4	Extracting the jet transport coefficient from jet quenching in high-energy heavy-ion collisions. Physical Review C, 2014, 90, .	2.9	298
5	Hadronic production of thermal photons. Physical Review C, 2004, 69, .	2.9	269
6	Production of photons in relativistic heavy-ion collisions. Physical Review C, 2016, 93, .	2.9	190
7	Systematic comparison of jet energy-loss schemes in a realistic hydrodynamic medium. Physical Review C, 2009, 79, .	2.9	158
8	Energy loss of leading hadrons and direct photon production in evolving quark-gluon plasma. Physical Review C, 2005, 72, .	2.9	148
9	Thermal photons and collective flow at energies available at the BNL Relativistic Heavy-Ion Collider. Physical Review C, 2011, 84, .	2.9	126
10	Momentum dependence of the symmetry potential and nuclear reactions induced by neutron-rich nuclei at RIA. Physical Review C, 2004, 69, .	2.9	123
11	Comparison of jet quenching formalisms for a quark-gluon plasma. Physical Review C, 2012, 86, .	2.9	108
12	Net-baryon diffusion in fluid-dynamic simulations of relativistic heavy-ion collisions. Physical Review C, 2018, 98, .	2.9	93
13	Jet energy loss, photon production, and photon-hadron correlations at energies available at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 80, .	2.9	90
14	Thermal photons as a quark-gluon plasma thermometer reexamined. Physical Review C, 2014, 89, .	2.9	90
15	Hadronic interactions of the J/ψ . Physical Review C, 2001, 63, .	2.9	85
16	Electromagnetic radiation from nuclear collisions at ultrarelativistic energies. Physical Review C, 2008, 77, .	2.9	85
17	Viscous photons in relativistic heavy ion collisions. Physical Review C, 2011, 84, .	2.9	81
18	Dijet asymmetry at the energies available at the CERN Large Hadron Collider. Physical Review C, 2011, 84, .	2.9	77

#	ARTICLE	IF	CITATIONS
19	Production and Elliptic Flow of Dileptons and Photons in a Matrix Model of the Quark-Gluon Plasma. Physical Review Letters, 2015, 114, 072301.	7.8	77
20	Collectivity and electromagnetic radiation in small systems. Physical Review C, 2017, 95, .	2.9	74
21	Hydrodynamic predictions for Pb+Pb collisions at 5.02 TeV. Physical Review C, 2017, 95, .	2.9	72
22	Solutions of conformal Israel-Stewart relativistic viscous fluid dynamics. Physical Review C, 2015, 91, .	2.9	66
23	Dilepton emission in high-energy heavy-ion collisions with viscous hydrodynamics. Physical Review C, 2014, 89, .	2.9	64
24	Properties in a hot meson gas. Physical Review C, 1999, 60, .	2.9	61
25	Effects of bulk viscosity and hadronic rescattering in heavy ion collisions at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider. Physical Review C, 2018, 97, .	2.9	59
26	Anisotropic flow of thermal photons as a quark-gluon plasma viscometer. Physical Review C, 2015, 91, .	2.9	55
27	MARTINI event generator for heavy quarks: Initialization, parton evolution, and hadronization. Physical Review C, 2012, 86, .	2.9	53
28	Elliptic flow of thermal dileptons in relativistic nuclear collisions. Physical Review C, 2007, 75, .	2.9	50
29	Fluid behavior of a baryon-rich hadron resonance gas. Physical Review C, 2013, 88, .	2.9	45
30	Evolving distribution of hard partons traversing a hot, strongly interacting plasma. Physical Review C, 2009, 79, .	2.9	34
31	High momentum dilepton production from jets in a quark gluon plasma. Physical Review C, 2006, 74, .	2.9	30
32	Photon emission from a momentum-anisotropic quark-gluon plasma. Physical Review C, 2015, 91, .	2.9	30
33	Multimessenger heavy-ion collision physics. Physical Review C, 2022, 105, .	2.9	27
34	Bremsstrahlung photons from the bare surface of a strange quark star. Physical Review D, 2004, 70, .	4.7	26
35	Radiative jet energy loss in a three-dimensional hydrodynamical medium and high p_T asymmetry of π^0 at mid and forward rapidity in. Physical Review C, 2007, 76, .	2.9	25
36	Electromagnetic radiation as a probe of the initial state and of viscous dynamics in relativistic nuclear collisions. Physical Review C, 2016, 94, .	2.9	21

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37	Thermal Photon Radiation in High Multiplicity $p+Pb$ Collisions at the Large Hadron Collider. Physical Review Letters, 2016, 116, 072301.	7.8	18
38	Bulk viscosity at extreme limits: from kinetic theory to strings. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
39	Emission of electromagnetic radiation from the early stages of relativistic heavy-ion collisions. Physical Review C, 2021, 103, .	2.9	17
40	Benchmarking a nonequilibrium approach to photon emission in relativistic heavy-ion collisions. Physical Review D, 2019, 99, .	4.7	16
41	Probing Early-Time Dynamics and Quark-Gluon Plasma Transport Properties with Photons and Hadrons. Nuclear Physics A, 2021, 1005, 121863.	1.5	16
42	Photon emission from quark-gluon plasma out of equilibrium. Physical Review C, 2018, 97, .	2.9	15
43	Charm quark dynamics in quark-gluon plasma with 3D viscous hydrodynamics. Physical Review C, 2020, 102, .	2.9	15
44	Exploring the influence of bulk viscosity of QCD on dilepton tomography. Physical Review C, 2020, 101, .	2.9	12
45	Bremsstrahlung neutrinos from electron-electron scattering in a relativistic degenerate electron plasma. Physical Review D, 2005, 72, .	4.7	11
46	Bulk viscosity of strongly interacting matter in the relaxation time approximation. Physical Review C, 2018, 97, .	2.9	11
47	Infrared dynamics of a large N QCD model, the massless string sector and mesonic spectra. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8
48	Investigating the temperature dependence of the specific shear viscosity of QCD matter with dilepton radiation. Physical Review C, 2018, 98, .	2.9	8
49	The QCD trace anomaly at strong coupling from M-theory. European Physical Journal C, 2020, 80, 620.	3.9	8
50	ELECTROMAGNETIC RADIATION FROM RELATIVISTIC NUCLEAR COLLISIONS. , 2004, , 364-429.		7
51	Out-of-equilibrium photon production in the late stages of relativistic heavy-ion collisions. Physical Review C, 2022, 105, .	2.9	6
52	Another Look at "Soft" Lepton Pair Production in Nucleon-Nucleon Bremsstrahlung. International Journal of Modern Physics E, 1997, 06, 475-496.	1.0	4
53	Shear spectral sum rule in a nonconformal gravity dual. Physical Review D, 2010, 82, .	4.7	4
54	PHOTON PRODUCTION IN RELATIVISTIC NUCLEAR COLLISIONS AT SPS AND RHIC ENERGIES. International Journal of Modern Physics A, 2004, 19, 5351-5358.	1.5	2

#	ARTICLE	IF	CITATIONS
55	A Transport Model for Nuclear Reactions Induced by Radioactive Beams. AIP Conference Proceedings, 2005, , .	0.4	2
56	Hydrodynamic evolution and jet energy loss in Cu+Cu collisions. Physical Review C, 2011, 83, .	2.9	2
57	Family of new exact solutions for longitudinally expanding ideal fluids. Physical Review C, 2022, 105, .	2.9	2
58	Reply to "Comment on "Hadronic production of thermal photons". Physical Review C, 2005, 71, .	2.9	1
59	ELECTROMAGNETIC RADIATION FROM BROKEN SYMMETRIES IN RELATIVISTIC NUCLEAR COLLISIONS. International Journal of Modern Physics E, 2007, 16, 2350-2355.	1.0	1
60	Exploring evolution of anisotropy with electromagnetic radiation. Indian Journal of Physics, 2010, 84, 1795-1799.	1.8	1
61	MONTE-CARLO SIMULATION OF HEAVY-ION COLLISIONS. International Journal of Modern Physics E, 2011, 20, 1588-1593.	1.0	1
62	Event-plane decorrelation of photons produced in the early stage of heavy-ion collisions. , 2021, , .		1
63	Lepton pair production as a probe of hot and dense hadronic matter. AIP Conference Proceedings, 1992, , .	0.4	0
64	Baryon, charged hadron, Drell-Yan and J/ψ production in high energy proton-nucleus collisions. , 1999, , .		0
65	Lepton pair emission rates from a hot hadron gas. , 1999, , .		0
66	Photon production from charge-asymmetric hot and dense matter. Physical Review C, 2007, 75, .	2.9	0