

Charles Gale

List of Publications by Year in descending order

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Version: 2024-02-01

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	Multimessenger heavy-ion collision physics. <i>Physical Review C</i> , 2022, 105, .	2.9	27
2	Family of new exact solutions for longitudinally expanding ideal fluids. <i>Physical Review C</i> , 2022, 105, .	2.9	2
3	Out-of-equilibrium photon production in the late stages of relativistic heavy-ion collisions. <i>Physical Review C</i> , 2022, 105, .	2.9	6
4	Probing Early-Time Dynamics and Quark-Gluon Plasma Transport Properties with Photons and Hadrons. <i>Nuclear Physics A</i> , 2021, 1005, 121863.	1.5	16
5	Emission of electromagnetic radiation from the early stages of relativistic heavy-ion collisions. <i>Physical Review C</i> , 2021, 103, .	2.9	17
6	Event-plane decorrelation of photons produced in the early stage of heavy-ion collisions. , 2021, , .		1
7	Charm quark dynamics in quark-gluon plasma with 3 $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mo}>+ \langle \text{mml:mo}>\langle \text{mml:math}>1\text{D viscous hydrodynamics. } \text{Physical Review C}$, 2020, 102, .	2.9	15
8	Exploring the influence of bulk viscosity of QCD on dilepton tomography. <i>Physical Review C</i> , 2020, 101, .	2.9	12
9	The QCD trace anomaly at strong coupling from M-theory. <i>European Physical Journal C</i> , 2020, 80, 620.	3.9	8
10	Bulk viscosity at extreme limits: from kinetic theory to strings. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	17
11	Benchmarking a nonequilibrium approach to photon emission in relativistic heavy-ion collisions. <i>Physical Review D</i> , 2019, 99, .	4.7	16
12	Photon emission from quark-gluon plasma out of equilibrium. <i>Physical Review C</i> , 2018, 97, .	2.9	15
13	Net-baryon diffusion in fluid-dynamic simulations of relativistic heavy-ion collisions. <i>Physical Review C</i> , 2018, 98, .	2.9	93
14	Investigating the temperature dependence of the specific shear viscosity of QCD matter with dilepton radiation. <i>Physical Review C</i> , 2018, 98, .	2.9	8
15	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. <i>Physical Review C</i> , 2018, 97, .	2.9	59
16	Bulk viscosity of strongly interacting matter in the relaxation time approximation. <i>Physical Review C</i> , 2018, 97, .	2.9	11
17	Collectivity and electromagnetic radiation in small systems. <i>Physical Review C</i> , 2017, 95, .	2.9	74
18	Hydrodynamic predictions for Pb+Pb collisions at 5.02 TeV. <i>Physical Review C</i> , 2017, 95, .	2.9	72

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19	Electromagnetic radiation as a probe of the initial state and of viscous dynamics in relativistic nuclear collisions. <i>Physical Review C</i> , 2016, 94, .	2.9	21
20	Production of photons in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2016, 93, .	2.9	190
21	Thermal Photon Radiation in High Multiplicity $p+Pb$ Collisions at the Large Hadron Collider. <i>Physical Review Letters</i> , 2016, 116, 072301.	7.8	18
22	Infrared dynamics of a large N QCD model, the massless string sector and mesonic spectra. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	8
23	Solutions of conformal Israel-Stewart relativistic viscous fluid dynamics. <i>Physical Review C</i> , 2015, 91, .	2.9	66
24	Photon emission from a momentum-anisotropic quark-gluon plasma. <i>Physical Review C</i> , 2015, 91, .	2.9	30
25	Anisotropic flow of thermal photons as a quark-gluon plasma viscometer. <i>Physical Review C</i> , 2015, 91, .	2.9	55
26	Production and Elliptic Flow of Dileptons and Photons in a Matrix Model of the Quark-Gluon Plasma. <i>Physical Review Letters</i> , 2015, 114, 072301.	7.8	77
27	Dilepton emission in high-energy heavy-ion collisions with viscous hydrodynamics. <i>Physical Review C</i> , 2014, 89, .	2.9	64
28	Thermal photons as a quark-gluon plasma thermometer reexamined. <i>Physical Review C</i> , 2014, 89, .	2.9	90
29	Extracting the jet transport coefficient from jet quenching in high-energy heavy-ion collisions. <i>Physical Review C</i> , 2014, 90, .	2.9	298
30	Event-by-Event Anisotropic Flow in Heavy-ion Collisions from Combined Yang-Mills and Viscous Fluid Dynamics. <i>Physical Review Letters</i> , 2013, 110, 012302.	7.8	456
31	Fluid behavior of a baryon-rich hadron resonance gas. <i>Physical Review C</i> , 2013, 88, .	2.9	45
32	Comparison of jet quenching formalisms for a quark-gluon plasma. <i>Physical Review C</i> , 2012, 86, .	2.9	108
33	MARTINI event generator for heavy quarks: Initialization, parton evolution, and hadronization. <i>Physical Review C</i> , 2012, 86, .	2.9	53
34	Thermal photons and collective flow at energies available at the BNL Relativistic Heavy-Ion Collider. <i>Physical Review C</i> , 2011, 84, .	2.9	126
35	Elliptic and Triangular Flow in Event-by-Event Hydrodynamics. <i>Physical Review Letters</i> , 2011, 106, 042301.	7.8	577
36	Hydrodynamic evolution and jet energy loss in Cu+Cu collisions. <i>Physical Review C</i> , 2011, 83, .	2.9	2

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37	Viscous photons in relativistic heavy ion collisions. <i>Physical Review C</i> , 2011, 84, .	2.9	81
38	Dijet asymmetry at the energies available at the CERN Large Hadron Collider. <i>Physical Review C</i> , 2011, 84, .	2.9	77
39	MONTE-CARLO SIMULATION OF HEAVY-ION COLLISIONS. <i>International Journal of Modern Physics E</i> , 2011, 20, 1588-1593.	1.0	1
40	Exploring evolution of anisotropy with electromagnetic radiation. <i>Indian Journal of Physics</i> , 2010, 84, 1795-1799.	1.8	1
41	(3+1)D hydrodynamic simulation of relativistic heavy-ion collisions. <i>Physical Review C</i> , 2010, 82, .	2.9	327
42	Shear spectral sum rule in a nonconformal gravity dual. <i>Physical Review D</i> , 2010, 82, .	4.7	4
43	Evolving distribution of hard partons traversing a hot, strongly interacting plasma. <i>Physical Review C</i> , 2009, 79, .	2.9	34
44	Systematic comparison of jet energy-loss schemes in a realistic hydrodynamic medium. <i>Physical Review C</i> , 2009, 79, .	2.9	158
45	Jet energy loss, photon production, and photon-hadron correlations at energies available at the BNL Relativistic Heavy Ion Collider (RHIC). <i>Physical Review C</i> , 2009, 80, .	2.9	90
46	Electromagnetic radiation from nuclear collisions at ultrarelativistic energies. <i>Physical Review C</i> , 2008, 77, .	2.9	85
47	ELECTROMAGNETIC RADIATION FROM BROKEN SYMMETRIES IN RELATIVISTIC NUCLEAR COLLISIONS. <i>International Journal of Modern Physics E</i> , 2007, 16, 2350-2355.	1.0	1
48	Radiative jet energy loss in a three-dimensional hydrodynamical medium and high- p_T asymmetry of π^0 at mid and forward rapidity in. <i>Physical Review C</i> , 2007, 76, .	2.9	25
49	Elliptic flow of thermal dileptons in relativistic nuclear collisions. <i>Physical Review C</i> , 2007, 75, .	2.9	50
50	Photon production from charge-asymmetric hot and dense matter. <i>Physical Review C</i> , 2007, 75, .	2.9	0
51	High momentum dilepton production from jets in a quark gluon plasma. <i>Physical Review C</i> , 2006, 74, .	2.9	30
52	A Transport Model for Nuclear Reactions Induced by Radioactive Beams. <i>AIP Conference Proceedings</i> , 2005, . .	0.4	2
53	Reply to "Comment on "Hadronic production of thermal photons". <i>Physical Review C</i> , 2005, 71, .	2.9	1
54	Energy loss of leading hadrons and direct photon production in evolving quark-gluon plasma. <i>Physical Review C</i> , 2005, 72, .	2.9	148

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55	Bremsstrahlung neutrinos from electron-electron scattering in a relativistic degenerate electron plasma. Physical Review D, 2005, 72, .	4.7	11
56	Momentum dependence of the symmetry potential and nuclear reactions induced by neutron-rich nuclei at RIA. Physical Review C, 2004, 69, .	2.9	123
57	Bremsstrahlung photons from the bare surface of a strange quark star. Physical Review D, 2004, 70, .	4.7	26
58	PHOTON PRODUCTION IN RELATIVISTIC NUCLEAR COLLISIONS AT SPS AND RHIC ENERGIES. International Journal of Modern Physics A, 2004, 19, 5351-5358.	1.5	2
59	Hadronic production of thermal photons. Physical Review C, 2004, 69, .	2.9	269
60	ELECTROMAGNETIC RADIATION FROM RELATIVISTIC NUCLEAR COLLISIONS. , 2004, , 364-429.		7
61	Hadronic interactions of the J/ψ . Physical Review C, 2001, 63, .	2.9	85
62	Baryon, charged hadron, Drell-Yan and J/ψ production in high energy proton-nucleus collisions. , 1999, , .		0
63	Lepton pair emission rates from a hot hadron gas. , 1999, , .		0
64	χ properties in a hot meson gas. Physical Review C, 1999, 60, .	2.9	61
65	Another Look at "Soft" Lepton Pair Production in Nucleon-Nucleon Bremsstrahlung. International Journal of Modern Physics E, 1997, 06, 475-496.	1.0	4
66	Lepton pair production as a probe of hot and dense hadronic matter. AIP Conference Proceedings, 1992, , .	0.4	0