

Xu-Guang Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/618974/publications.pdf>

Version: 2024-02-01

94
papers

3,938
citations

126907

33
h-index

123424

61
g-index

95
all docs

95
docs citations

95
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	Global hyperon polarization and effects of decay feeddown. EPJ Web of Conferences, 2022, 259, 11017.	0.3	5
2	Chiral Anomaly in Non-Relativistic Systems: Berry Curvature and Chiral Kinetic Theory. Chinese Physics Letters, 2022, 39, 021101.	3.3	5
3	Global spin polarization of multistrange hyperons and feed-down effect in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136971.	4.1	12
4	Determination of the impact parameter in high-energy heavy-ion collisions via deep learning *. Chinese Physics C, 2022, 46, 074110.	3.7	5
5	Spin polarization formula for Dirac fermions at local equilibrium. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	5.1	20
6	Gyrohydrodynamics: Relativistic spinful fluid with strong vorticity. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	15
7	Vorticity and Spin Polarization " A Theoretical Perspective. Nuclear Physics A, 2021, 1005, 121752.	1.5	19
8	Local Spin Polarization in 200 GeV Au+Au and 2.76 TeV Pb+Pb Collisions. Nuclear Physics A, 2021, 1005, 121831.	1.5	8
9	QCD Phase Structure Under Rotation. Lecture Notes in Physics, 2021, , 349-379.	0.7	12
10	Hydrodynamic study of hyperon spin polarization in relativistic heavy ion collisions. Physical Review C, 2021, 103, .	2.9	48
11	Local spin alignment of vector mesons in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136325.	4.1	34
12	Hydrodynamic attractor in a Hubble expansion. Physical Review D, 2021, 104, .	4.7	9
13	Vorticity and Spin Polarization in Heavy Ion Collisions: Transport Models. Lecture Notes in Physics, 2021, , 281-308.	0.7	11
14	Relativistic spin hydrodynamics with torsion and linear response theory for spin relaxation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	57
15	Kinetic theory with spin: From massive to massless fermions. Physical Review D, 2020, 102, .	4.7	19
16	Covariant spin kinetic theory I: collisionless limit *. Chinese Physics C, 2020, 44, 094101.	3.7	64
17	Signatures of the vortical quark-gluon plasma in hadron yields. Physical Review C, 2020, 102, .	2.9	7
18	Zilch vortical effect, Berry phase, and kinetic theory. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37

#	ARTICLE	IF	CITATIONS
19	Anomalous chiral transports and spin polarization in heavy-ion collisions. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	84
20	Vorticity in low-energy heavy-ion collisions. Physical Review C, 2020, 101, .	2.9	46
21	Real-time dynamics of axion particle production due to spontaneous decay of a coherent axion field. Physical Review D, 2020, 101, .	4.7	4
22	Dynamic scale anomalous transport in QCD with electromagnetic background. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
23	Spin-dependent dynamically assisted Schwinger mechanism. Physical Review D, 2019, 100, .	4.7	15
24	Feed-down effect on $\langle \hat{S}_z \rangle$ spin polarization. Physical Review C, 2019, 100, .	2.9	61
25	Thermal vorticity and spin polarization in heavy-ion collisions. Physical Review C, 2019, 99, .	2.9	104
26	Fate of spin polarization in a relativistic fluid: An entropy-current analysis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 100-106.	4.1	117
27	Chiral kinetic theory in curved spacetime. Physical Review D, 2019, 99, .	4.7	70
28	Emergent QCD Kondo effect in two-flavor color superconducting phase. Physical Review D, 2019, 99, .	4.7	10
29	Chiral vortical effect for an arbitrary spin. Journal of High Energy Physics, 2019, 2019, 1.	4.7	33
30	Anomaly-Induced Effects of Rotating Dense Matter. , 2019, , .		0
31	Spontaneous generation of spin current from the vacuum by strong electric fields. Progress of Theoretical and Experimental Physics, 2019, 2019, .	6.6	4
32	Local spin polarization in high energy heavy ion collisions. Physical Review Research, 2019, 1, .	3.6	71
33	Predictions for isobaric collisions at $\sqrt{s_{NN}} = 2.76$ GeV from a multiphase transport model. Physical Review C, 2018, 97, .		
34	Anomalous effects of dense matter under rotation. Journal of High Energy Physics, 2018, 2018, 1.	4.7	44
35	Strongly interacting matter under rotation. EPJ Web of Conferences, 2018, 171, 07004.	0.3	1
36	Phenomenology of anomalous chiral transports in heavy-ion collisions. EPJ Web of Conferences, 2018, 172, 01003.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Hydrodynamic response in simulations within a multiphase transport model. <i>Physical Review C</i> , 2018, 98, .	2.9	13
38	Transition Radiation as a Probe of the Chiral Anomaly. <i>Physical Review Letters</i> , 2018, 121, 182301.	7.8	8
39	Nonresistive dissipative magnetohydrodynamics from the Boltzmann equation in the 14-moment approximation. <i>Physical Review D</i> , 2018, 98, .	4.7	62
40	Nambu–Jona-Lasinio model in a parallel electromagnetic field. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 780, 273-282.	4.1	18
41	Novel quantum phenomena induced by strong magnetic fields in heavy-ion collisions. <i>Nuclear Science and Techniques/Hewuli</i> , 2017, 28, 1.	3.4	117
42	Quarksonic matter at high isospin density. <i>Chinese Physics C</i> , 2017, 41, 051001.	3.7	6
43	Surface magnetic catalysis. <i>Physical Review D</i> , 2017, 96, .	4.7	22
44	Electrodynamics of chiral matter. <i>Physical Review D</i> , 2017, 95, .	4.7	43
45	Bulk viscosity of quark-gluon plasma in strong magnetic fields. <i>Physical Review D</i> , 2017, 96, .	4.7	63
46	Chiral magnetic effect in isobaric collisions. <i>Nuclear Physics A</i> , 2017, 967, 736-739.	1.5	7
47	Chiral Vortical and Magnetic Effects in Anomalous Hydrodynamics. <i>Nuclear Physics A</i> , 2017, 967, 776-779.	1.5	7
48	Kosterlitz-Thouless transition and vortex-antivortex lattice melting in two-dimensional Fermi gases with p - or d -wave pairing. <i>Physical Review A</i> , 2017, 96, .	2.5	5
49	Event-by-event generation of vorticity in heavy-ion collisions. <i>Journal of Physics: Conference Series</i> , 2017, 779, 012070.	0.4	4
50	Conventional and Unconventional Pairing and Condensates in Dilute Nuclear Matter. <i>Journal of Physics: Conference Series</i> , 2016, 702, 012012.	0.4	7
51	Simulating Chiral Magnetic and Separation Effects with Spin-Orbit Coupled Atomic Gases. <i>Scientific Reports</i> , 2016, 6, 20601.	3.3	19
52	Electromagnetic triangle anomaly and neutral pion condensation in QCD vacuum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 757, 1-5.	4.1	36
53	In search of chiral magnetic effect: separating flow-driven background effects and quantifying anomaly-induced charge separations. <i>Nuclear Physics A</i> , 2016, 956, 661-664.	1.5	12
54	Stoner ferromagnetism of a strongly interacting Fermi gas in the quasirepulsive regime. <i>Physical Review A</i> , 2016, 93, .	2.5	20

#	ARTICLE	IF	CITATIONS
55	Spin-polarized neutron matter: Critical unpairing and BCS-BEC precursor. <i>Physical Review C</i> , 2016, 93, .	2.9	30
56	Vorticity in heavy-ion collisions. <i>Physical Review C</i> , 2016, 93, .	2.9	150
57	Chiral phase transition and Schwinger mechanism in a pure electric field. <i>Physical Review D</i> , 2016, 93, .	4.7	18
58	Analogy between rotation and density for Dirac fermions in a magnetic field. <i>Physical Review D</i> , 2016, 93, .	4.7	80
59	Vector meson condensation in a pion superfluid. <i>Physical Review D</i> , 2016, 94, .	4.7	12
60	Testing the chiral magnetic effect with isobaric collisions. <i>Physical Review C</i> , 2016, 94, .	2.9	70
61	Electromagnetic fields and anomalous transports in heavy-ion collisions—a pedagogical review. <i>Reports on Progress in Physics</i> , 2016, 79, 076302.	20.1	229
62	Possible observables for the chiral electric separation effect in Cu+Au collisions. <i>Physical Review C</i> , 2015, 91, .	2.9	13
63	Glasma evolution and Bose-Einstein condensation with elastic and inelastic collisions. <i>Physical Review D</i> , 2015, 91, .	4.7	16
64	Chiral vortical wave and induced flavor charge transport in a rotating quark-gluon plasma. <i>Physical Review D</i> , 2015, 92, .	4.7	57
65	Electric fields and chiral magnetic effect in Cu + Au collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 742, 296-302.	4.1	64
66	Chiral electric separation effect in the quark-gluon plasma. <i>Physical Review D</i> , 2015, 91, .	4.7	46
67	Charge-dependent azimuthal correlations from AuAu to UU collisions. <i>Nuclear Physics A</i> , 2015, 939, 85-100.	1.5	55
68	Kinetic evolution of the glasma and thermalization in heavy-ion collisions. <i>International Journal of Modern Physics E</i> , 2014, 23, 1430003.	1.0	20
69	BCS-BEC crossovers and unconventional phases in dilute nuclear matter. <i>Physical Review C</i> , 2014, 90, .	2.9	25
70	Inhomogeneous condensates in dilute nuclear matter and BCS-BEC crossovers. <i>Journal of Physics: Conference Series</i> , 2014, 496, 012008.	0.4	6
71	Superfluidity and collective modes in Rashba spin-orbit coupled Fermi gases. <i>Annals of Physics</i> , 2013, 337, 163-207.	2.8	23
72	Azimuthally fluctuating magnetic field and its impacts on observables in heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 1529-1535.	4.1	159

#	ARTICLE	IF	CITATIONS
73	Strange quark matter in strong magnetic fields within a confining model. Physical Review D, 2013, 88, .	4.7	32
74	BCS-BEC crossover at finite temperature in spin-orbit-coupled Fermi gases. Physical Review A, 2013, 87, .	2.5	18
75	Axial Current Generation from Electric Field: Chiral Electric Separation Effect. Physical Review Letters, 2013, 110, 232302.	7.8	91
76	BCS-BEC Crossover in 2D Fermi Gases with Rashba Spin-Orbit Coupling. Physical Review Letters, 2012, 108, 145302.	7.8	99
77	BCS-BEC crossover in three-dimensional Fermi gases with spherical spin-orbit coupling. Physical Review B, 2012, 86, .	3.2	28
78	Nonperturbative effects on the ferromagnetic transition in repulsive Fermi gases. Physical Review A, 2012, 85, .	2.5	28
79	Phase diagram of dilute nuclear matter: Unconventional pairing and the BCS-BEC crossover. Physical Review C, 2012, 86, .	2.9	19
80	Event-by-event generation of electromagnetic fields in heavy-ion collisions. Physical Review C, 2012, 85, .	2.9	535
81	Unusual Zeeman-field effects in two-dimensional spin-orbit-coupled Fermi superfluids. Physical Review A, 2012, 86, .	2.5	17
82	Shear viscosity, bulk viscosity, and relaxation times of causal dissipative relativistic fluid-dynamics at finite temperature and chemical potential. Nuclear Physics A, 2012, 889, 73-92.	1.5	13
83	Consistency of field-theoretical and kinetic calculations of viscous transport coefficients for a relativistic fluid. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 174-178.	4.1	13
84	Kubo formulas for relativistic fluids in strong magnetic fields. Annals of Physics, 2011, 326, 3075-3094.	2.8	107
85	Quark polarization in a viscous quark-gluon plasma. Physical Review C, 2011, 84, .	2.9	88
86	Bulk viscosity and relaxation time of causal dissipative relativistic fluid dynamics. Physical Review C, 2011, 83, .	2.9	30
87	BCS-BEC crossover in symmetric nuclear matter at finite temperature: Pairing fluctuation and pseudogap. Physical Review C, 2010, 81, .	2.9	18
88	Viscosities in chiral symmetry breaking phase. Chinese Physics C, 2010, 34, 1440-1442.	3.7	0
89	Phase diagram of chiral quark matter: Color and electrically neutral Fulde-Ferrell phase. Physical Review D, 2010, 82, .	4.7	10
90	Anisotropic hydrodynamics, bulk viscosities, and r -modes of strange quark stars with strong magnetic fields. Physical Review D, 2010, 81, .	4.7	128

#	ARTICLE	IF	CITATIONS
91	NEUTRINO EMISSION IN INHOMOGENEOUS PION CONDENSED QUARK MATTER. International Journal of Modern Physics E, 2008, 17, 1906-1916.	1.0	4
92	ASYMMETRIC FERMI SUPERFLUID WITH TWO TYPES OF PAIRINGS. International Journal of Modern Physics E, 2007, 16, 2307-2312.	1.0	5
93	Asymmetric fermion superfluid with inter- and intra-species pairings. New Journal of Physics, 2007, 9, 375-375.	2.9	7
94	Chiral phase structure at finite temperature and density in Einstein universe. Astroparticle Physics, 2007, 28, 472-480.	4.3	7