

Laszlo Csernai

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,803
citations

331670

21
h-index

254184

43
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61
all docs

61
docs citations

61
times ranked

1528
citing authors

#	ARTICLE	IF	CITATIONS
1	Strongly Interacting Low-Viscosity Matter Created in Relativistic Nuclear Collisions. Physical Review Letters, 2006, 97, 152303.	7.8	359
2	\hat{l} polarization in peripheral heavy ion collisions. Physical Review C, 2013, 88, .	2.9	169
3	Fast Hadronization of Supercooled Quark-Gluon Plasma. Physical Review Letters, 1995, 74, 5005-5008.	7.8	132
4	Flow vorticity in peripheral high-energy heavy-ion collisions. Physical Review C, 2013, 87, .	2.9	121
5	Global polarization in high energy collisions. Physical Review C, 2017, 95, .	2.9	116
6	Kelvin-Helmholtz instability in high-energy heavy-ion collisions. Physical Review C, 2012, 85, .	2.9	66
7	Initial state of ultrarelativistic heavy ion collisions. Physical Review C, 2001, 64, .	2.9	61
8	Simple Solutions of Relativistic Hydrodynamics for Systems with Ellipsoidal Symmetry. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 73-84.	0.4	56
9	Freeze-out in hydrodynamical models. Physical Review C, 1999, 59, 3309-3316.	2.9	54
10	Fluid dynamical prediction of changed v_1 flow at energies available at the CERN Large Hadron Collider. Physical Review C, 2011, 84, .	2.9	52
11	\hat{l} and \hat{A} spin interaction with meson fields generated by the baryon current in high energy nuclear collisions. Physical Review C, 2019, 99, .	2.9	51
12	\hat{l} polarization in peripheral collisions at moderately relativistic energies. Physical Review C, 2016, 94, .	2.9	45
13	Vorticity in peripheral collisions at the Facility for Antiproton and Ion Research and at the JINR Nuclotron-based Ion Collider Facility. Physical Review C, 2014, 90, .	2.9	38
14	Nonideal particle distributions from kinetic freeze-out models. Physical Review C, 1999, 59, 388-394.	2.9	35
15	New method for measuring longitudinal fluctuations and directed flow in ultrarelativistic heavy ion reactions. Physical Review C, 2012, 86, .	2.9	29
16	Phase transition dynamics in ultra-relativistic heavy ion collisions. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 453-459.	1.5	28
17	Viscous potential flow analysis of peripheral heavy ion collisions. Physical Review C, 2013, 87, .	2.9	25
18	Longitudinal fluctuations of the center of mass of the participants in heavy-ion collisions. Physical Review C, 2013, 88, .	2.9	25

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19	Non-equilibrated post-freeze-out distributions. European Physical Journal C, 2003, 30, 255-261.	3.9	22
20	Matching stages of heavy-ion collision models. Physical Review C, 2010, 81, .	2.9	22
21	Rotation in an exact hydrodynamical model. Physical Review C, 2014, 90, .	2.9	18
22	Higher-moment singularities explored by net-proton nonstatistical fluctuations. Physical Review C, 2012, 85, .	2.9	17
23	New method to detect rotation in high-energy heavy-ion collisions. Physical Review C, 2014, 89, .	2.9	16
24	A study of $\langle \Lambda \rangle$ and $\langle \Lambda^2 \rangle$ polarization splitting by meson field in PICR hydrodynamic model. European Physical Journal C, 2021, 81, 1.	3.9	15
25	Idealized freeze-out in relativistic fluid dynamical models. Acta Physica Hungarica A Heavy Ion Physics, 1997, 5, 467-474.	0.4	14
26	Under-saturation of quarks at early stages of relativistic nuclear collisions: The hot glue initial scenario and its observable signatures. Astronomische Nachrichten, 2015, 336, 744-748.	1.2	13
27	Longitudinal fluctuations in the partonic and hadronic initial state. Physical Review C, 2011, 84, .	2.9	12
28	Fluctuations in hadronizing quark gluon plasma. Physical Review C, 2012, 85, .	2.9	11
29	Cancelling J_{\perp}^2 distributions for space-like freeze-out. European Physical Journal A, 2004, 20, 269-275.	2.5	10
30	Entropy production in chemically nonequilibrium quark-gluon plasma created in central $Pb-Pb$ collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2016, 93, .	2.9	10
31	Radiation-Dominated Implosion with Flat Target. Physics of Wave Phenomena, 2020, 28, 187-199.	1.1	10
32	Study of rotating high energy systems with the differential HBT method. International Journal of Modern Physics E, 2014, 23, 1450043.	1.0	9
33	Nonequilibrium hadronization and constituent quark number scaling. Physical Review C, 2011, 83, .	2.9	8
34	Study of vorticity in an exact rotating hydro model. International Journal of Modern Physics E, 2015, 24, 1550013.	1.0	8
35	QGP flow fluctuations and the characteristics of higher moments. European Physical Journal A, 2012, 48, 1.	2.5	7
36	Vorticity and $\langle \Lambda \rangle$ polarization in the microscopic transport model PACIAE. Physical Review C, 2021, 104, .	2.9	7

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37	Time dependence of partition into spectators and participants in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2014, 90, .	2.9	6
38	Pionic freeze-out hypersurfaces in relativistic nucleus-nucleus collisions. <i>Physical Review C</i> , 2013, 87, .	2.9	5
39	Freeze-out and hadronization in the Landau hydrodynamical model. <i>Physical Review C</i> , 2010, 81, .	2.9	4
40	Microscopic model for rapid hadronization of supercooled Quark-Gluon Plasma. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1996, 3, 151-176.	0.4	4
41	Event-by-event fluid dynamics. <i>Physical Review E</i> , 2000, 61, 237-246.	2.1	3
42	Correlations among elliptic flow parameter, impact parameter, and multiplicity. <i>European Physical Journal A</i> , 2010, 45, 353-356.	2.5	3
43	Instabilities in Nuclear Multifragmentation. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1996, 3, 17-36.	0.4	3
44	Freeze-out in relativistic heavy ion collisions at SPS. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1997, 5, 455-465.	0.4	3
45	Constraints on the equation of state from neutron stars and hybrid stars. <i>Zeitschrift für Physik A</i> , 1992, 342, 235-238.	0.9	2
46	New, Spherical Solutions of Non-Relativistic, Dissipative Hydrodynamics. <i>Entropy</i> , 2022, 24, 514.	2.2	2
47	Directed flow from global symmetry and initial state Fluctuations. <i>Open Physics</i> , 2012, 10, .	1.7	1
48	Differential HBT method to analyze rotation in heavy-ion collisions. <i>Nuclear Physics A</i> , 2014, 931, 1056-1060.	1.5	1
49	Initial state with shear in peripheral heavy ion collisions. <i>Physical Review C</i> , 2018, 97, .	2.9	1
50	Chiral dynamics with quark degrees of freedom. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1997, 5, 127-134.	0.4	1
51	Beyond the Navier-Stokes equation: Including random thermal fluctuations. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1997, 5, 333-341.	0.4	1
52	INTRODUCTION TO RELATIVISTIC KINETIC THEORY. <i>International Review of Nuclear Physics</i> , 1991, , 1-36.	1.0	0
53	On signals of quark-gluon plasma freeze-out. <i>AIP Conference Proceedings</i> , 1995, , .	0.4	0
54	Phase Transitions in High Energy Heavy Ion Collisions within Fluid Dynamics. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2001, 14, 83-95.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Hydrodynamics for Modeling Ultra-Relativistic Heavy-Ion Reactions. AIP Conference Proceedings, 2002, , .	0.4	0
56	Multi-Module Modeling of Heavy Ion Reactions and the 3rd Flow Component. AIP Conference Proceedings, 2004, , .	0.4	0
57	Collective symmetries and asymmetries in ultra-relativistic heavy ion collisions. European Physical Journal: Special Topics, 2008, 162, 165-170.	2.6	0
58	Nanoplasmonic laser fusion response to Földes and Pokol. Laser and Particle Beams, 2020, 38, 285-286.	1.0	0
59	Rapid hadronization and strangeness production. Acta Physica Hungarica A Heavy Ion Physics, 1996, 4, 45-54.	0.4	0