

Gabriel Silveira Denicol

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

3,023
citations

29
h-index

54
g-index

70
ext. papers

3,432
ext. citations

2.8
avg, IF

5.4
L-index

#	Paper	IF	Citations
65	Derivation of transient relativistic fluid dynamics from the Boltzmann equation. <i>Physical Review D</i> , 2012 , 85,	4.9	314
64	Importance of the Bulk Viscosity of QCD in Ultrarelativistic Heavy-Ion Collisions. <i>Physical Review Letters</i> , 2015 , 115, 132301	7.4	208
63	Dissipative relativistic fluid dynamics: a new way to derive the equations of motion from kinetic theory. <i>Physical Review Letters</i> , 2010 , 105, 162501	7.4	188
62	Influence of shear viscosity of quark-gluon plasma on elliptic flow in ultrarelativistic heavy-ion collisions. <i>Physical Review Letters</i> , 2011 , 106, 212302	7.4	186
61	Event-by-event distributions of azimuthal asymmetries in ultrarelativistic heavy-ion collisions. <i>Physical Review C</i> , 2013 , 87,	2.7	170
60	Production of photons in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2016 , 93,	2.7	126
59	Bulk viscosity effects in event-by-event relativistic hydrodynamics. <i>Physical Review C</i> , 2013 , 88,	2.7	120
58	Influence of a temperature-dependent shear viscosity on the azimuthal asymmetries of transverse momentum spectra in ultrarelativistic heavy-ion collisions. <i>Physical Review C</i> , 2012 , 86,	2.7	104
57	New exact solution of the relativistic Boltzmann equation and its hydrodynamic limit. <i>Physical Review Letters</i> , 2014 , 113, 202301	7.4	94
56	Effect of bulk viscosity on elliptic flow near the QCD phase transition. <i>Physical Review C</i> , 2009 , 80,	2.7	88
55	Origin of the relaxation time in dissipative fluid dynamics. <i>Physical Review D</i> , 2011 , 83,	4.9	86
54	Stability and causality in relativistic dissipative hydrodynamics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008 , 35, 115102	2.9	86
53	Transport coefficients of bulk viscous pressure in the 14-moment approximation. <i>Physical Review C</i> , 2014 , 90,	2.7	81
52	Derivation of fluid dynamics from kinetic theory with the 14-moment approximation. <i>European Physical Journal A</i> , 2012 , 48, 1	2.5	81
51	Studying the validity of relativistic hydrodynamics with a new exact solution of the Boltzmann equation. <i>Physical Review D</i> , 2014 , 90,	4.9	80
50	Relativistic dissipative hydrodynamics: A minimal causal theory. <i>Physical Review C</i> , 2007 , 75,	2.7	77
49	The effect of shear and bulk viscosities on elliptic flow. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010 , 37, 094040	2.9	62

48	Solutions of conformal Israel-Stewart relativistic viscous fluid dynamics. <i>Physical Review C</i> , 2015 , 91,	2.7	58
47	Moving Forward to Constrain the Shear Viscosity of QCD Matter. <i>Physical Review Letters</i> , 2016 , 116, 212301	3.0	49
46	Relative importance of second-order terms in relativistic dissipative fluid dynamics. <i>Physical Review D</i> , 2014 , 89,	4.9	49
45	Shear-bulk coupling in nonconformal hydrodynamics. <i>Physical Review C</i> , 2014 , 90,	2.7	44
44	Solving the heat-flow problem with transient relativistic fluid dynamics. <i>Physical Review D</i> , 2014 , 89,	4.9	38
43	Electric conductivity of a hot hadron gas from a kinetic approach. <i>Physical Review D</i> , 2016 , 93,	4.9	36
42	Fluid behavior of a baryon-rich hadron resonance gas. <i>Physical Review C</i> , 2013 , 88,	2.7	35
41	Second order dissipative fluid dynamics from kinetic theory. <i>EPJ Web of Conferences</i> , 2011 , 13, 07005	0.3	34
40	Extracting the bulk viscosity of the quark-gluon plasma. <i>Nuclear Physics A</i> , 2014 , 931, 926-930	1.3	33
39	Diffusion of Conserved Charges in Relativistic Heavy Ion Collisions. <i>Physical Review Letters</i> , 2018 , 120, 242301	7.4	32
38	Analytic Solution of the Boltzmann Equation in an Expanding System. <i>Physical Review Letters</i> , 2016 , 116, 022301	7.4	30
37	Kinetic foundations of relativistic dissipative fluid dynamics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014 , 41, 124004	2.9	28
36	Heat conductivity in relativistic systems investigated using a partonic cascade. <i>Physical Review E</i> , 2013 , 87,	2.4	26
35	Shock propagation and stability in causal dissipative hydrodynamics. <i>Physical Review C</i> , 2008 , 78,	2.7	22
34	Jet quenching effects on the direct, elliptic, and triangular flow at energies available at the BNL Relativistic Heavy Ion Collider. <i>Physical Review C</i> , 2014 , 90,	2.7	20
33	Electromagnetic radiation as a probe of the initial state and of viscous dynamics in relativistic nuclear collisions. <i>Physical Review C</i> , 2016 , 94,	2.7	18
32	A hybrid approach to relativistic heavy-ion collisions at the RHIC BES energies. <i>Nuclear Physics A</i> , 2017 , 967, 796-799	1.3	17
31	Signatures of collective behavior in small systems. <i>Nuclear Physics A</i> , 2014 , 931, 1045-1050	1.3	16

30	Extensivity of irreversible current and stability in causal dissipative hydrodynamics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2009 , 36, 035103	2.9	16
29	Probing the early-time dynamics of relativistic heavy-ion collisions with electromagnetic radiation. <i>Nuclear Physics A</i> , 2014 , 932, 230-234	1.3	15
28	Event-by-event direct photon anisotropic flow in relativistic heavy-ion collisions. <i>Nuclear Physics A</i> , 2014 , 931, 675-680	1.3	15
27	Derivation of transient relativistic fluid dynamics from the Boltzmann equation for a multi-component system. <i>Nuclear Physics A</i> , 2013 , 904-905, 369c-372c	1.3	14
26	Exact solutions of the Boltzmann equation and optimized hydrodynamic approaches for relativistic heavy-ion collisions. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 276-278, 193-196	0.4	14
25	Thermal Photon Radiation in High Multiplicity p+Pb Collisions at the Large Hadron Collider. <i>Physical Review Letters</i> , 2016 , 116, 072301	7.4	11
24	Elliptic-flow suppression due to hadron mass spectrum. <i>Physical Review C</i> , 2014 , 89,	2.7	11
23	Consistency of field-theoretical and kinetic calculations of viscous transport coefficients for a relativistic fluid. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 708, 174-178	4.2	10
22	Perfect fluidity of a dissipative system: Analytical solution for the Boltzmann equation in AdS ₂ ×S ² . <i>Physical Review D</i> , 2015 , 92,	4.9	10
21	Determination of the shear viscosity relaxation time at weak and strong coupling. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011 , 38, 124177	2.9	9
20	Bulk viscosity effects on elliptic flow. <i>Nuclear Physics A</i> , 2009 , 830, 729c-732c	1.3	9
19	Direct photon production and jet energy-loss in small systems. <i>Nuclear Physics A</i> , 2016 , 956, 741-744	1.3	7
18	Phenomenological constraints on the bulk viscosity of QCD. <i>Nuclear Physics A</i> , 2017 , 967, 429-432	1.3	6
17	OPEN PROBLEMS IN THE HYDRODYNAMICAL APPROACH TO RELATIVISTIC HEAVY ION COLLISIONS. <i>International Journal of Modern Physics E</i> , 2007 , 16, 763-775	0.7	5
16	New insights from 3D simulations of heavy ion collisions. <i>Nuclear Physics A</i> , 2016 , 956, 288-291	1.3	4
15	Probing the non-equilibrium dynamics of hot and dense QCD with dileptons. <i>Nuclear Physics A</i> , 2014 , 931, 701-705	1.3	4
14	v-USPhydro: Bulk Viscosity Effects on Event-by-Event Relativistic Hydrodynamics. <i>Journal of Physics: Conference Series</i> , 2013 , 458, 012018	0.3	4
13	Sensitivity of the elliptic flow to a temperature-dependent shear viscosity-to-entropy density ratio. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011 , 38, 124050	2.9	4

12	Effects of finite size and viscosity in relativistic hydrodynamics. <i>Nuclear Physics A</i> , 2007 , 787, 60-67	1.3	4
11	. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2012 , 5, 305	1.8	4
10	Fluid dynamical response to initial state fluctuations. <i>Nuclear Physics A</i> , 2014 , 926, 109-114	1.3	3
9	The Landau initial condition and the role of viscosity in relativistic heavy-ion collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008 , 35, 104130	2.9	3
8	Causal theory of relativistic dissipative hydrodynamics. <i>Brazilian Journal of Physics</i> , 2007 , 37, 1047-1054	1.2	2
7	New formulation of causal dissipative hydrodynamics: shock wave propagation. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, S1011-S1014	2.9	2
6	Thermal and prompt photons at RHIC and the LHC. <i>Nuclear Physics A</i> , 2016 , 956, 409-412	1.3	2
5	Theory of collective dynamics: flow, fluctuations and correlations in heavy ion collisions. <i>Nuclear Physics A</i> , 2016 , 956, 67-74	1.3	2
4	Probing the dissipative properties of a strongly interacting medium with dileptons. <i>Nuclear and Particle Physics Proceedings</i> , 2016 , 276-278, 113-114	0.4	1
3	Bulk viscous effects on flow and dilepton radiation in a hybrid approach. <i>Nuclear Physics A</i> , 2017 , 967, 692-695	1.3	0
2	Jet quenching effects on the anisotropic flow at RHIC. <i>Nuclear Physics A</i> , 2014 , 932, 432-436	1.3	
1	Dynamics and stability of chiral fluid. <i>Physics of Atomic Nuclei</i> , 2014 , 77, 1130-1144	0.4	