

Frederique Grassi

List of Publications by Year in descending order

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71
papers

1,953
citations

331670

21
h-index

243625

44
g-index

71
all docs

71
docs citations

71
times ranked

2994
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the hydrodynamic response to the initial geometry in heavy-ion collisions. Physical Review C, 2012, 85, .	2.9	238
2	Topology Studies of Hydrodynamics Using Two-Particle Correlation Analysis. Physical Review Letters, 2009, 103, 242301.	7.8	178
3	Bulk viscosity effects in event-by-event relativistic hydrodynamics. Physical Review C, 2013, 88, .	2.9	137
4	Examining the Necessity to Include Event-By-Event Fluctuations in Experimental Evaluations of Elliptical Flow. Physical Review Letters, 2006, 97, 202302.	7.8	127
5	Fluctuations of the Initial Conditions and the Continuous Emission in the Hydrodynamical Description of Two-Pion Interferometry. Physical Review Letters, 2004, 93, 182301.	7.8	96
6	Bulk viscosity-driven suppression of shear viscosity effects on the flow harmonics at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2014, 90, .	2.9	93
7	Breaking of factorization of two-particle correlations in hydrodynamics. Physical Review C, 2013, 87, .	2.9	89
8	Importance of Granular Structure in the Initial Conditions for the Elliptic Flow. Physical Review Letters, 2008, 101, 112301.	7.8	85
9	Anisotropic flow in event-by-event ideal hydrodynamic simulations of $200 \sqrt{s}$ Au+Au collisions. Physical Review Letters, 2012, 109, 202302.	7.8	75
10	Continuous particle emission: a probe of thermalized matter evolution?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 9-14.	4.1	69
11	Effects of viscosity on the mapping of initial to final state in heavy ion collisions. Physical Review C, 2015, 91, .	2.9	62
12	Directed flow at midrapidity in event-by-event hydrodynamics. Physical Review C, 2011, 83, .	2.9	55
13	Freeze-out in hydrodynamical models. Physical Review C, 1999, 59, 3309-3316.	2.9	54
14	3D Relativistic Hydrodynamic Computations Using Lattice-QCD-Inspired Equations of State. Nuclear Physics A, 2006, 774, 169-178.	1.5	53
15	Simple solutions of relativistic hydrodynamics for longitudinally and cylindrically expanding systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 565, 107-115.	4.1	51
16	Particle emission in the hydrodynamical description of relativistic nuclear collisions. Zeitschrift für Physik C-Particles and Fields, 1996, 73, 153-160.	1.5	36
17	A closer look at the influence of tubular initial conditions on two-particle correlations. Journal of Physics C: Nuclear and Particle Physics, 2010, 37, 094043.	3.6	35
18	Hydrodynamic predictions for mixed harmonic correlations in 200 GeV Au+Au collisions. Physical Review C, 2017, 95, .	2.9	30

#	ARTICLE	IF	CITATIONS
19	Sensitivity of observables to coarse-graining size in heavy-ion collisions. <i>Physical Review C</i> , 2018, 97, .	2.9	28
20	NeXSPheRIO results on elliptic-flow fluctuations at RHIC. <i>Physics of Atomic Nuclei</i> , 2008, 71, 1558-1564.	0.4	27
21	Temporal evolution of tubular initial conditions and their influence on two-particle correlations in relativistic nuclear collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 712, 226-230.	4.1	24
22	Decomposition of fluctuating initial conditions and flow harmonics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2014, 41, 015103.	3.6	21
23	EFFECT OF CHEMICAL FREEZE OUT ON IDENTIFIED PARTICLE SPECTRA AT 200 AGeV Au-Au COLLISIONS AT RHIC USING SPheRIO. <i>International Journal of Modern Physics E</i> , 2007, 16, 1877-1882.	1.0	20
24	Origin of trigger-angle dependence of di-hadron correlations. <i>Physical Review C</i> , 2013, 87, .	2.9	19
25	Results on transverse mass spectra obtained with NeXSPheRIO. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1041-S1044.	3.6	18
26	Hydrodynamics: Fluctuating initial conditions and two-particle correlations. <i>Nuclear Physics A</i> , 2011, 854, 81-88.	1.5	18
27	Collective Flow Signals the Quark-Gluon Plasma. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2005, 24, 189-201.	0.4	16
28	p_T -dependent particle number fluctuations from principal-component analyses in hydrodynamic simulations of heavy-ion collisions. <i>Physical Review C</i> , 2019, 100, .	2.9	16
29	Decoupling chemical and thermal freeze outs in hydrodynamics. <i>Physical Review C</i> , 2001, 64, .	2.9	15
30	Distribution of hyperons in 200A GeV Au-Au in smoothed particle hydrodynamics. <i>Brazilian Journal of Physics</i> , 2007, 37, 767-769.	1.4	15
31	NeXSPheRIO results on elliptic flow at RHIC and connection with thermalization. <i>European Physical Journal A</i> , 2006, 29, 23-26.	2.5	13
32	Confronting Particle Emission Scenarios with Strangeness Data. <i>Physical Review Letters</i> , 1998, 80, 1170-1173.	7.8	12
33	Continuous emission versus freeze-out via Hanbury Brown-Twiss. <i>Physical Review C</i> , 2000, 62, .	2.9	12
34	Simple Solutions of Relativistic Hydrodynamics for Longitudinally Expanding Systems. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2004, 21, 53-62.	0.4	12
35	Elliptic-flow suppression due to hadron mass spectrum. <i>Physical Review C</i> , 2014, 89, .	2.9	11
36	Can We See the Hadron-Quark Transition Happening in Neutron Stars?. <i>Astrophysical Journal</i> , 1998, 492, 263-266.	4.5	9

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37	\tilde{A}_s enhancement in nuclear collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 267, 1-6.	4.1	8
38	Simple Solutions of Relativistic Hydrodynamics for Cylindrically Symmetric Systems. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 63-71.	0.4	8
39	Characterizing the hydrodynamic response to the initial conditions. Nuclear Physics A, 2013, 904-905, 503c-506c.	1.5	8
40	Further Results on Peripheral-tube Model for Ridge Correlation. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 513.	0.1	7
41	Particle abundances and spectra in the hydrodynamical description of relativistic nuclear collisions with light projectiles. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 853-861.	3.6	6
42	THE GAUSSIAN APPROXIMATION FOR THE $\hat{\rho}^{\dagger}\hat{\rho}$ 4THEORY AT FINITE TEMPERATURE REVISITED. International Journal of Modern Physics A, 1991, 06, 4579-4638.	1.5	5
43	Fluctuating Initial Conditions and Anisotropic Flows. Progress of Theoretical Physics Supplement, 2012, 193, 319-322.	0.1	5
44	Strangeness data with heavy projectiles from a hydrodynamical point of view. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 339-344.	3.6	4
45	Strangeness data with light projectiles from a hydrodynamical point of view. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 331-338.	3.6	4
46	On the Origin of the Trigger-Angle Dependence of the Ridge Structure. Progress of Theoretical Physics Supplement, 2012, 193, 167-171.	0.1	4
47	v-USPhydro: Bulk Viscosity Effects on Event-by-Event Relativistic Hydrodynamics. Journal of Physics: Conference Series, 2013, 458, 012018.	0.4	4
48	Hadron-quark phase transition in dense stars. Zeitschrift für Physik C-Particles and Fields, 1988, 38, 307-316.	1.5	3
49	Quark core stars, quark stars and strange stars. Zeitschrift für Physik C-Particles and Fields, 1989, 44, 129-138.	1.5	3
50	Influence of tubular initial conditions on two-particle correlations. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124123.	3.6	3
51	Effects of LatticeQCD EoS and Continuous Emission on Some Observables. AIP Conference Proceedings, 2006, , .	0.4	2
52	NeXSPheRIO results on elliptic flow and directed flow for Au+Au and Cu+Cu collisions at RHIC. Indian Journal of Physics, 2010, 84, 1657-1661.	1.8	2
53	Statistical mechanics of a relativistic magnetized plasma and its radiation field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 116, 30-35.	2.1	1
54	A phenomenological quark matter equation of state. Zeitschrift für Physik C-Particles and Fields, 1989, 44, 247-257.	1.5	1

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55	High Pt strangeness enhancement. Nuclear Physics A, 1992, 544, 619-622.	1.5	1
56	Collective Flow signals the Quark Gluon Plasma. AIP Conference Proceedings, 2004, , .	0.4	1
57	Hydro Description of Two-Pion Interferometry with Fluctuations of the Initial Conditions and Continuous Particle Emission. AIP Conference Proceedings, 2004, , .	0.4	1
58	CHARGED PARTICLE RAPIDITY DISTRIBUTION, TRANSVERSE MOMENTUM DISTRIBUTION AND ELLIPTIC FLOW IN Cu+Cu COLLISIONS AT RHIC WITH NeXSPheRIO. International Journal of Modern Physics E, 2007, 16, 2970-2973.	1.0	1
59	Probing the transverse size of initial inhomogeneities with flow observables. Nuclear Physics A, 2019, 982, 419-422.	1.5	1
60	Status and promise of particle interferometry in heavy-ion collisions. Brazilian Journal of Physics, 2007, 37, xxxi-xxxiv.	1.4	1
61	Modification of the j/ψ momentum distribution in heavy-ion collisions through dispersion by the nuclear medium. Nuclear Physics A, 1991, 525, 483-486.	1.5	0
62	Do we need to incorporate separate chemical and thermal freeze-outs in hydrodynamics?. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2029-2033.	3.6	0
63	Comparison between experimental and theoretical extraction of some observables in relativistic nuclear collisions. AIP Conference Proceedings, 2004, , .	0.4	0
64	NeXSPheRIO results on azimuthal anisotropy in Au+Au collisions at 200AGeV. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064075.	3.6	0
65	The ridge as a shadowing effect in hydrodynamics. Physics of Particles and Nuclei Letters, 2011, 8, 947-950.	0.4	0
66	Event-by-event hydrodynamics: A better tool to study the Quark-Gluon plasma. , 2013, , .		0
67	Mixed Harmonic Correlations: Hydrodynamic Predictions at RHIC using Experimental Analysis Techniques. Nuclear Physics A, 2017, 967, 389-392.	1.5	0
68	p-dependent multiplicity fluctuations from PCA and initial conditions. Nuclear Physics A, 2021, 1005, 121892.	1.5	0
69	Boost-invariant one-tube model for two-particle correlation. , 2011, , .		0
70	The pulsar in SN 1987A and the equation of state of dense matter. Astrophysical Journal, 1990, 362, 590.	4.5	0
71	A test of particle emission scenarios: Strange particle ratios. Acta Physica Hungarica A Heavy Ion Physics, 1996, 4, 257-262.	0.4	0