

Miklos Gyulassy

List of Publications by Year in descending order

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71102

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96
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96
docs citations

96
times ranked

5806
citing authors

#	ARTICLE	IF	CITATIONS
1	hijing: A Monte Carlo model for multiple jet production in pp, pA, and AA collisions. Physical Review D, 1991, 44, 3501-3516.	4.7	1,353
2	New forms of QCD matter discovered at RHIC. Nuclear Physics A, 2005, 750, 30-63.	1.5	925
3	Gluon shadowing and jet quenching in A+A collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 1992, 68, 1480-1483.	7.8	708
4	HIJING 1.0: A Monte Carlo program for parton and particle production in high energy hadronic and nuclear collisions. Computer Physics Communications, 1994, 83, 307-331.	7.5	700
5	Reaction operator approach to non-abelian energy loss. Nuclear Physics B, 2001, 594, 371-419.	2.5	619
6	Multiple collisions and induced gluon bremsstrahlung in QCD. Nuclear Physics B, 1994, 420, 583-614.	2.5	614
7	Non-Abelian Energy Loss at Finite Opacity. Physical Review Letters, 2000, 85, 5535-5538.	7.8	419
8	Dissipative phenomena in quark-gluon plasmas. Physical Review D, 1985, 31, 53-62.	4.7	390
9	Pion interferometry of nuclear collisions. I. Theory. Physical Review C, 1979, 20, 2267-2292.	2.9	367
10	Elastic, inelastic, and path length fluctuations in jet tomography. Nuclear Physics A, 2007, 784, 426-442.	1.5	356
11	High- p_T Azimuthal Asymmetry in Noncentral A+A at RHIC. Physical Review Letters, 2001, 86, 2537-2540.	7.8	313
12	Extracting the jet transport coefficient from jet quenching in high-energy heavy-ion collisions. Physical Review C, 2014, 90, .	2.9	298
13	High- p_T Tomography of d+Au and Au+Au at SPS, RHIC, and LHC. Physical Review Letters, 2002, 89, 252301.	7.8	292
14	Saturation of elliptic flow and the transport opacity of the gluon plasma at RHIC. Nuclear Physics A, 2002, 697, 495-520.	1.5	290
15	Quark damping and energy loss in the high temperature QCD. Nuclear Physics B, 1991, 351, 491-506.	2.5	262
16	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
17	Heavy quark radiative energy loss in QCD matter. Nuclear Physics A, 2004, 733, 265-298.	1.5	250
18	Perfect fluidity of the quark-gluon plasma core as seen through its dissipative hadronic corona. Nuclear Physics A, 2006, 769, 71-94.	1.5	249

#	ARTICLE	IF	CITATIONS
19	Jet quenching in thin quark-gluon plasmas I: formalism. Nuclear Physics B, 2000, 571, 197-233.	2.5	220
20	Polarization probes of vorticity in heavy ion collisions. Physical Review C, 2007, 76, .	2.9	172
21	Yang-Mills radiation in ultrarelativistic nuclear collisions. Physical Review C, 1997, 56, 2219-2228.	2.9	127
22	Influence of bottom quark jet quenching on single electron tomography of Au + Au. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 81-86.	4.1	122
23	Transverse expansion and high pT azimuthal asymmetry at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 301-308.	4.1	94
24	The surprisingly transparent sQGP at LHC. Nuclear Physics A, 2011, 872, 265-285.	1.5	92
25	Jet Flavor Tomography of Quark Gluon Plasmas at RHIC and LHC. Physical Review Letters, 2012, 108, 022301.	7.8	82
26	Event-by-Event Hydrodynamics and Jet Quenching: A Solution to the R_{AA} Loss: A Solution to the R_{AA} Loss. Physical Review Letters, 2016, 116, 252301.	7.8	78
27	Jet quenching and the \bar{s} anomaly in heavy ion collisions at relativistic energies. Physical Review C, 2002, 65, .	2.9	76
28	Consistency of Perfect Fluidity and Jet Quenching in Semi-Quark-Gluon Monopole Plasmas. Chinese Physics Letters, 2015, 32, 092501.	3.3	74
29	Bridging soft-hard transport properties of quark-gluon plasmas with CUJET3.0. Journal of High Energy Physics, 2016, 2016, 1.	4.7	73
30	Heavy quark jet tomography of Pb+Pb at LHC: AdS/CFT drag or pQCD energy loss?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 320-323.	4.1	70
31	Antihyperon Enhancement through Baryon Junction Loops. Physical Review Letters, 1999, 83, 1735-1738.	7.8	69
32	Reaction operator approach to multiple elastic scatterings. Physical Review D, 2002, 66, .	4.7	67
33	Universality of the diffusion wake from stopped and punch-through jets in heavy-ion collisions. Physical Review C, 2009, 79, .	2.9	66
34	JET QUENCHING AND RADIATIVE ENERGY LOSS IN DENSE NUCLEAR MATTER. , 2004, , 123-191.		63
35	Heavy Quark Jet Quenching with Collisional plus Radiative Energy Loss and Path Length Fluctuations. Nuclear Physics A, 2007, 783, 493-496.	1.5	62
36	Three-dimensional jet tomography of twisted strongly coupled quark gluon plasmas. Physical Review C, 2005, 72, .	2.9	60

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37	Sensitivity of flow harmonics to subnucleon scale fluctuations in heavy ion collisions. Physical Review C, 2016, 93, .	2.9	49
38	Azimuthal jet flavor tomography with CUJET2.0 of nuclear collisions at RHIC and LHC. Journal of High Energy Physics, 2014, 2014, 1.	4.7	47
39	Collisional energy loss of nonasymptotic jets in a quark-gluon plasma. Physical Review C, 2007, 75, .	2.9	46
40	Quenching and tomography from the RHIC to the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124114.	3.6	44
41	Squeezed Correlations and Spectra for Mass-Shifted Bosons. Physical Review Letters, 1999, 83, 4013-4016.	7.8	42
42	Baryon junction loops and the baryon-meson anomaly at high energies. Physical Review C, 2004, 70, .	2.9	42
43	Global constraints from RHIC and LHC on transport properties of QCD fluids in CUJET/CIBJET framework. Chinese Physics C, 2019, 43, 044101.	3.7	42
44	Fourier harmonics of high- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">p_T \rangle$ particles probing the fluctuating initial condition geometries in heavy-ion collisions. Physical Review C, 2011, 84, .	2.9	41
45	Examining a reduced jet-medium coupling in Pb+Pb collisions at the Large Hadron Collider. Physical Review C, 2012, 86, .	2.9	40
46	Shooting string holography of jet quenching at RHIC and LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 464-471.	4.1	38
47	Theory of High-Energy A+A at RHIC. , 2002, , 37-79.		38
48	Equation of state and collision rate tests of parton cascade models. Physical Review C, 1998, 58, 1175-1182.	2.9	37
49	Constraints on the path-length dependence of jet quenching in nuclear collisions at RHIC and LHC. Journal of High Energy Physics, 2014, 2014, 1.	4.7	33
50	Cumulants and nonlinear response of high $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">p_T \rangle$ harmonic flow at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">p_T \rangle$ reactions. Physical Review D, 2014, 90, .	2.9	32
51	Di-Jet Conical Correlations Associated with Heavy Quark Jets in anti-de Sitter Space/Conformal Field Theory Correspondence. Physical Review Letters, 2009, 102, 102301.	7.8	30
52	Conformal holography of bulk elliptic flow and heavy-quark quenching in relativistic heavy ion collisions. Physical Review C, 2010, 82, .	2.9	28
53	Non-Abelian bremsstrahlung and azimuthal asymmetries in high energy $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">p_T \rangle$ reactions. Physical Review D, 2014, 90, .	4.7	28
54	Predictions for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">p_T \rangle$ reactions. Physical Review D, 2014, 90, .	2.9	26

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55	Jet quenching in non-conformal holography. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124176.	3.6	25
56	Minijet scale and energy loss at relativistic energies in event generator models. Physical Review C, 2003, 68, .	2.9	23
57	Falling Strings and Light Quark Jet Quenching at LHC. Nuclear Physics A, 2013, 910-911, 252-255.	1.5	23
58	Transient field fluctuations effects ind+Auand Au+Au collisions atsNN=200GeV. Physical Review C, 2007, 75, .	2.9	20
59	Probing the color structure of the perfect QCD fluids via soft-hard-event-by-event azimuthal correlations. Chinese Physics C, 2018, 42, 104104.	3.7	20
60	A running coupling explanation of the surprising transparency of the QGP at LHC. Nuclear Physics A, 2013, 904-905, 779c-782c.	1.5	19
61	Strong color field baryonic remnants in nucleus-nucleus collisions at 200AGeV. Physical Review C, 2005, 72, .	2.9	17
62	Getting to the bottom of the heavy quark jet puzzle. Physics Magazine, 2009, 2, .	0.1	14
63	Jet tomography studies in AuAu collisions at RHIC energies. European Physical Journal C, 2004, 33, s609-s611.	3.9	13
64	Near-zone Navier-Stokes analysis of heavy quark jet quenching in an $N \langle \mathcal{E} \rangle = 4 \langle \mathcal{E} \rangle^2$ super-Yang-Mills plasma. Physical Review C, 2008, 78, .	2.9	13
65	Improving a radiative plus collisional energy loss model for application to RHIC and LHC. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S989-S993.	3.6	12
66	Soft Open Charm Production in Heavy-Ion Collisions. Physical Review Letters, 2009, 102, 232302.	7.8	10
67	Baryon number transport in high-energy nuclear collisions. Acta Physica Hungarica A Heavy Ion Physics, 1997, 5, 299-318.	0.4	8
68	Charm and beauty tomography of the sQGP. European Physical Journal C, 2005, 43, 135-138.	3.9	7
69	Sensitivity of azimuthal jet tomography to early-time energy loss at RHIC and LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124153.	3.6	7
70	An overview of the CUJET model: Jet Flavor Tomography applied at RHIC and LHC. Nuclear Physics A, 2013, 910-911, 490-493.	1.5	7
71	A Unified Description for Comprehensive Sets of Jet Energy Loss Observables with CUJET3. Nuclear Physics A, 2017, 967, 648-651.	1.5	7
72	Precision Dijet Acoplanarity Tomography of the Chromo Structure of Perfect QCD Fluids. Nuclear Physics A, 2019, 982, 627-630.	1.5	7

#	ARTICLE	IF	CITATIONS
73	Hadronization scheme dependence of long-range azimuthal harmonics in high energy p + A reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 433-440.	4.1	6
74	Why Is the Null HBT Result at RHIC So Interesting?. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 261-270.	0.4	5
75	Dynamical magnetic enhancement of light and heavy quark jet quenching at RHIC. Nuclear Physics A, 2011, 855, 307-310.	1.5	5
76	Open charm production in $p + p$ and Pb + Pb collisions at the CERN Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115101.	3.6	5
77	Jet Energy Loss in Hot and Dense Matter. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 237-247.	0.4	4
78	The Decoupling Problem at RHIC. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 69-78.	0.4	4
79	Initial-state bremsstrahlung versus final-state hydrodynamic sources of azimuthal harmonics in $p + p$ and $p + A$ collisions at RHIC and LHC. Nuclear Physics A, 2014, 931, 943-948.	1.5	4
80	Kaon and Pion Ratio Probes of Jet Quenching in Nuclear Collisions. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 459-468.	0.4	3
81	Quantifying a Possibly Reduced Jet-Medium Coupling of the sQGP at the LHC. Nuclear Physics A, 2013, 904-905, 717c-720c.	1.5	3
82	Sensitivity of Pion versus Parton-Jet Nuclear Modification Factors to the Path-Length Dependence of Jet-Energy Loss at RHIC and LHC. Chinese Physics Letters, 2015, 32, 121204.	3.3	3
83	Covariant Non-Equilibrium Transport Theory Solutions for RHIC. Foundations of Physics, 2001, 31, 875-894.	1.3	2
84	The tricky azimuthal dependence of jet quenching at RHIC and LHC via CUJET2.0. Nuclear Physics A, 2014, 932, 128-133.	1.5	2
85	Charm Quark Suppression and Elliptic Flow at RHIC. Acta Physica Hungarica A Heavy Ion Physics, 2005, 24, 313-319.	0.4	1
86	Heavy quark jet tomography of the ultradense sQGP phase of nuclear matter. Nuclear Physics A, 2010, 834, 217c-222c.	1.5	1
87	Azimuthal jet tomography at RHIC and LHC. Nuclear Physics A, 2014, 931, 410-415.	1.5	1
88	The effect of transverse flow on the nuclear modification factor at RHIC and LHC. AIP Conference Proceedings, 2016, , .	0.4	1
89	Dijet Acoplanarity in CUJET3 as a Probe of the Nonperturbative Color Structure of QCD Perfect Fluids. Nuclear Physics A, 2021, 1005, 121938.	1.5	1
90	Nuclear gluon shadowing via continuum lepton pairs in p+A collisions at $\sqrt{s} = 200$ A GeV. Acta Physica Hungarica A Heavy Ion Physics, 1996, 4, 123-130.	0.4	1

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91	Constraints on the Jet-Medium Coupling from Measurements at RHIC and LHC. Nuclear and Particle Physics Proceedings, 2016, 276-278, 349-352.	0.5	0
92	PROBING HOT, DENSE MATTER AT RHIC. , 2002, , .		0
93	How and Where to go <i>Within</i> the Standard Model?: sQGP/CGC @ RHIC/LHC. , 2007, , .		0
94	Strangeness production via parton cascade. Acta Physica Hungarica A Heavy Ion Physics, 1996, 4, 361-368.	0.4	0