

Miklos Gyulassy

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Precision Dijet Acoplanarity Tomography of the Chromo Structure of Perfect QCD Fluids. Nuclear Physics A, 2019, 982, 627-630.	1.5	7
3	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
4	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
5	Cumulants and nonlinear response of high harmonic flow at $\sqrt{s_{NN}} = 5.02$ TeV. Physical Review C, 2017, 95, .	2.9	32
6	A Unified Description for Comprehensive Sets of Jet Energy Loss Observables with CUJET3. Nuclear Physics A, 2017, 967, 648-651.	1.5	7
7	The effect of transverse flow on the nuclear modification factor at RHIC and LHC. AIP Conference Proceedings, 2016, , .	0.4	1
8	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
9	Sensitivity of flow harmonics to subnucleon scale fluctuations in heavy ion collisions. Physical Review C, 2016, 93, .	2.9	49
10	Event-by-Event Hydrodynamics + Jet Energy Loss: A Solution to the $\sqrt{s_{NN}} = 5.02$ TeV. Physical Review Letters, 2016, 116, 252301.	7.8	78
11	Bridging soft-hard transport properties of quark-gluon plasmas with CUJET3.0. Journal of High Energy Physics, 2016, 2016, 1.	4.7	73
12	Consistency of Perfect Fluidity and Jet Quenching in Semi-Quark-Gluon Monopole Plasmas. Chinese Physics Letters, 2015, 32, 092501.	3.3	74
13	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
14	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
15	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
16	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
17	Non-Abelian bremsstrahlung and azimuthal asymmetries in high energy $p + A$ reactions. Physical Review D, 2014, 90, .	4.7	28
18	The tricky azimuthal dependence of jet quenching at RHIC and LHC via CUJET2.0. Nuclear Physics A, 2014, 932, 128-133.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Azimuthal jet tomography at RHIC and LHC. Nuclear Physics A, 2014, 931, 410-415.	1.5	1
20	Initial-state bremsstrahlung versus final-state hydrodynamic sources of azimuthal harmonics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi></mml:math> at RHIC and LHC. Nuclear Physics A, 2014, 931, 943-948.	1.5	4
21	Extracting the jet transport coefficient from jet quenching in high-energy heavy-ion collisions. Physical Review C, 2014, 90, .	2.9	298
22	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
23	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
24	A running coupling explanation of the surprising transparency of the QGP at LHC. Nuclear Physics A, 2013, 904-905, 779c-782c.	1.5	19
25	Quantifying a Possibly Reduced Jet-Medium Coupling of the sQGP at the LHC. Nuclear Physics A, 2013, 904-905, 717c-720c.	1.5	3
26	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
27	Falling Strings and Light Quark Jet Quenching at LHC. Nuclear Physics A, 2013, 910-911, 252-255.	1.5	23
28	Examining a reduced jet-medium coupling in Pb+Pb collisions at the Large Hadron Collider. Physical Review C, 2012, 86, .	2.9	40
29	Jet Flavor Tomography of Quark Gluon Plasmas at RHIC and LHC. Physical Review Letters, 2012, 108, 022301.	7.8	82
30	Predictions for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo>+</mml:mo></mml:math> Pb at 4.4 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math> TeV to test initial-state nuclear shadowing at energy	2.9	26
31	The surprisingly transparent sQGP at LHC. Nuclear Physics A, 2011, 872, 265-285.	1.5	92
32	Dynamical magnetic enhancement of light and heavy quark jet quenching at RHIC. Nuclear Physics A, 2011, 855, 307-310.	1.5	5
33	Fourier harmonics of high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>p</mml:mi></mml:msub><mml:mi>T</mml:mi></mml:msub></mml:math> particles probing the fluctuating initial condition geometries in heavy-ion collisions. Physical Review C, 2011, 84, .	2.9	41
34	Jet quenching in non-conformal holography. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124176.	3.6	25
35	Quenching and tomography from the RHIC to the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124114.	3.6	44
36	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

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37	Heavy quark jet tomography of the ultradense sQGP phase of nuclear matter. Nuclear Physics A, 2010, 834, 217c-222c.	1.5	1
38	Conformal holography of bulk elliptic flow and heavy-quark quenching in relativistic heavy ion collisions. Physical Review C, 2010, 82, .	2.9	28
39	Soft Open Charm Production in Heavy-Ion Collisions. Physical Review Letters, 2009, 102, 232302.	7.8	10
40	Universality of the diffusion wake from stopped and punch-through jets in heavy-ion collisions. Physical Review C, 2009, 79, .	2.9	66
41	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
42	Getting to the bottom of the heavy quark jet puzzle. Physics Magazine, 2009, 2, .	0.1	14
43	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
44	Heavy-ion collisions at the LHC—Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
45	Near-zone Navier-Stokes analysis of heavy quark jet quenching in an $N=4$ super-Yang-Mills plasma. Physical Review C, 2008, 78, .	2.9	13
46	Transient field fluctuations effects in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2007, 75, .	2.9	20
47	Polarization probes of vorticity in heavy ion collisions. Physical Review C, 2007, 76, .	2.9	172
48	Collisional energy loss of nonasymptotic jets in a quark-gluon plasma. Physical Review C, 2007, 75, .	2.9	46
49	Elastic, inelastic, and path length fluctuations in jet tomography. Nuclear Physics A, 2007, 784, 426-442.	1.5	356
50	Heavy Quark Jet Quenching with Collisional plus Radiative Energy Loss and Path Length Fluctuations. Nuclear Physics A, 2007, 783, 493-496.	1.5	62
51	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
52	How and Where to go Within the Standard Model?: sQGP/CGC @ RHIC/LHC. , 2007, , .		0
53	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
54	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

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55	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
56	New forms of QCD matter discovered at RHIC. Nuclear Physics A, 2005, 750, 30-63.	1.5	925
57	Charm and beauty tomography of the sQGP. European Physical Journal C, 2005, 43, 135-138.	3.9	7
58	Charm Quark Suppression and Elliptic Flow at RHIC. Acta Physica Hungarica A Heavy Ion Physics, 2005, 24, 313-319.	0.4	1
59	Three-dimensional jet tomography of twisted strongly coupled quark gluon plasmas. Physical Review C, 2005, 72, .	2.9	60
60	Strong color field baryonic remnants in nucleus-nucleus collisions at 200AGeV. Physical Review C, 2005, 72, .	2.9	17
61	Baryon junction loops and the baryon-meson anomaly at high energies. Physical Review C, 2004, 70, .	2.9	42
62	Jet tomography studies in AuAu collisions at RHIC energies. European Physical Journal C, 2004, 33, s609-s611.	3.9	13
63	Heavy quark radiative energy loss in QCD matter. Nuclear Physics A, 2004, 733, 265-298.	1.5	250
64	JET QUENCHING AND RADIATIVE ENERGY LOSS IN DENSE NUCLEAR MATTER. , 2004, , 123-191.		63
65	Why Is the Null HBT Result at RHIC So Interesting?. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 261-270.	0.4	5
66	Jet Energy Loss in Hot and Dense Matter. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 237-247.	0.4	4
67	The Decoupling Problem at RHIC. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 69-78.	0.4	4
68	Minijet scale and energy loss at relativistic energies in event generator models. Physical Review C, 2003, 68, .	2.9	23
69	High-pT Tomography of Au+Au and Au+Au at SPS, RHIC, and LHC. Physical Review Letters, 2002, 89, 252301.	7.8	292
70	Jet quenching and the p_T anomaly in heavy ion collisions at relativistic energies. Physical Review C, 2002, 65, .	2.9	76
71	Reaction operator approach to multiple elastic scatterings. Physical Review D, 2002, 66, .	4.7	67
72	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

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73	Saturation of elliptic flow and the transport opacity of the gluon plasma at RHIC. Nuclear Physics A, 2002, 697, 495-520.	1.5	290
74	Theory of High-Energy A+A at RHIC. , 2002, , 37-79.		38
75	PROBING HOT, DENSE MATTER AT RHIC. , 2002, , .		0
76	Reaction operator approach to non-abelian energy loss. Nuclear Physics B, 2001, 594, 371-419.	2.5	619
77	Covariant Non-Equilibrium Transport Theory Solutions for RHIC. Foundations of Physics, 2001, 31, 875-894.	1.3	2
78	HighT Azimuthal Asymmetry in Noncentral A+A at RHIC. Physical Review Letters, 2001, 86, 2537-2540.	7.8	313
79	Non-Abelian Energy Loss at Finite Opacity. Physical Review Letters, 2000, 85, 5535-5538.	7.8	419
80	Jet quenching in thin quark-gluon plasmas I: formalism. Nuclear Physics B, 2000, 571, 197-233.	2.5	220
81	Antihyperon Enhancement through Baryon Junction Loops. Physical Review Letters, 1999, 83, 1735-1738.	7.8	69
82	Squeezed Correlations and Spectra for Mass-Shifted Bosons. Physical Review Letters, 1999, 83, 4013-4016.	7.8	42
83	Equation of state and collision rate tests of parton cascade models. Physical Review C, 1998, 58, 1175-1182.	2.9	37
84	Yang-Mills radiation in ultrarelativistic nuclear collisions. Physical Review C, 1997, 56, 2219-2228.	2.9	127
85	Baryon number transport in high-energy nuclear collisions. Acta Physica Hungarica A Heavy Ion Physics, 1997, 5, 299-318.	0.4	8
86	Strangeness production via parton cascade. Acta Physica Hungarica A Heavy Ion Physics, 1996, 4, 361-368.	0.4	0
87	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
88	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
89	Multiple collisions and induced gluon bremsstrahlung in QCD. Nuclear Physics B, 1994, 420, 583-614.	2.5	614
90	Gluon shadowing and jet quenching in A+A collisions at $\sqrt{s}=200$ A GeV. Physical Review Letters, 1992, 68, 1480-1483.	7.8	708

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91	Quark damping and energy loss in the high temperature QCD. Nuclear Physics B, 1991, 351, 491-506.	2.5	262
92	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
93	Dissipative phenomena in quark-gluon plasmas. Physical Review D, 1985, 31, 53-62.	4.7	390
94	Pion interferometry of nuclear collisions. I. Theory. Physical Review C, 1979, 20, 2267-2292.	2.9	367