

Tetsufumi Hirano

List of Publications by Year in descending order

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113
papers

3,997
citations

126907

33
h-index

114465

63
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116
all docs

116
docs citations

116
times ranked

2573
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective flow and two-pion correlations from a relativistic hydrodynamic model with early chemical freeze-out. <i>Physical Review C</i> , 2002, 66, .	2.9	385
2	Hadronic dissipative effects on elliptic flow in ultrarelativistic heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 636, 299-304.	4.1	381
3	200<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math>GeV<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math>Collisions Serve a Nearly Perfect Quark-Gluon Liquid. <i>Physical Review Letters</i> , 2011, 106, 192301.	7.8	380
4	Perfect fluidity of the quark-gluon plasma core as seen through its dissipative hadronic corona. <i>Nuclear Physics A</i> , 2006, 769, 71-94.	1.5	249
5	Is early thermalization achieved only near midrapidity in Au + Au collisions at $\sqrt{s_{NN}}=130$ GeV?. <i>Physical Review C</i> , 2001, 65, .	2.9	194
6	Hydrodynamic afterburner for the color glass condensate and the parton energy loss. <i>Nuclear Physics A</i> , 2004, 743, 305-328.	1.5	110
7	Effects of bulk viscosity at freezeout. <i>Physical Review C</i> , 2009, 80, .	2.9	106
8	Hadron spectra and elliptic flow for 200A<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math>GeV<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">A</math>Collisions from viscous hydrodynamics coupled to a Boltzmann cascade. <i>Physical Review C</i> , 2011, 83, .	2.9	105
9	Mass ordering of differential elliptic flow and its violation for \bar{J}/ψ mesons. <i>Physical Review C</i> , 2008, 77, .	2.9	101
10	Eccentricity fluctuation effects on elliptic flow in relativistic heavy ion collisions. <i>Physical Review C</i> , 2009, 79, .	2.9	100
11	Integrated dynamical approach to relativistic heavy ion collisions. <i>Progress in Particle and Nuclear Physics</i> , 2013, 70, 108-158.	14.4	93
12	Heavy quark diffusion with relativistic Langevin dynamics in the quark-gluon fluid. <i>Physical Review C</i> , 2009, 79, .	2.9	88
13	Interplay between soft and hard hadronic components for identified hadrons in relativistic heavy ion collisions. <i>Physical Review C</i> , 2004, 69, .	2.9	75
14	Suppression of high- p_T hadrons in Pb+Pb collisions at energies available at the CERN Large Hadron Collider. <i>Physical Review C</i> , 2011, 84, .	2.9	71
15	Elliptic flow in U+U collisions at $\sqrt{s_{NN}}=200$ GeV and in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV: Prediction from a hybrid approach. <i>Physical Review C</i> , 2011, 83, .	2.9	65
16	Estimation of the electric conductivity of the quark gluon plasma via asymmetric heavy-ion collisions. <i>Physical Review C</i> , 2014, 90, .	2.9	60
17	Effects of hadronic rescattering on multistrange hadrons in high-energy nuclear collisions. <i>Physical Review C</i> , 2015, 92, .	2.9	50
18	Elliptic flow in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV: Hybrid model assessment of the first data. <i>Physical Review C</i> , 2011, 84, .	2.9	49

#	ARTICLE	IF	CITATIONS
19	Constraint fitting of experimental data with a jet quenching model embedded in a hydrodynamical bulk medium. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 025104.	3.6	47
20	Anomalous-hydrodynamic analysis of charge-dependent elliptic flow in heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 775, 266-270.	4.1	47
21	Dynamically integrated transport approach for heavy-ion collisions at high baryon density. <i>Physical Review C</i> , 2018, 98, .	2.9	47
22	Elliptic flow from a hybrid CGC, full 3D hydro and hadronic cascade model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, S879-S882.	3.6	44
23	Energy loss in high energy heavy ion collisions from the hydrodynamic and jet model. <i>Physical Review C</i> , 2002, 66, .	2.9	42
24	The QGP shear viscosity—elusive goal or just around the corner?. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 124045.	3.6	42
25	Momentum transport away from a jet in an expanding nuclear medium. <i>Physical Review C</i> , 2014, 90, .	2.9	42
26	Back-to-Back Correlations of High-p _T Hadrons in Relativistic Heavy-Ion Collisions. <i>Physical Review Letters</i> , 2003, 91, 082301.	7.8	41
27	Comparison of space-time evolutions of hot, dense matter in NN=17 and 130 GeV relativistic heavy ion collisions based on a hydrodynamical model. <i>Physical Review C</i> , 2002, 66, .	2.9	40
28	Collective flow and HBT radii from a full 3D hydrodynamic model with early chemical freeze out. <i>Nuclear Physics A</i> , 2003, 715, 821c-824c.	1.5	40
29	Hydrodynamical analysis of hadronic spectra in the 130 GeV/nucleon Au+Au collisions. <i>Physical Review C</i> , 2002, 65, .	2.9	39
30	New approach to initializing hydrodynamic fields and mini-jet propagation in quark-gluon fluids. <i>Physical Review C</i> , 2017, 95, .	2.9	36
31	Hydrodynamics and Flow. <i>Lecture Notes in Physics</i> , 2009, , 139-178.	0.7	35
32	Relativistic dissipative hydrodynamic equations at the second order for multi-component systems with multiple conserved currents. <i>Nuclear Physics A</i> , 2010, 847, 283-314.	1.5	34
33	Hydrodynamic fluctuations and dissipation in an integrated dynamical model. <i>Nuclear Physics A</i> , 2016, 956, 276-279.	1.5	33
34	Unified description of hadron yield ratios from dynamical core-corona initialization. <i>Physical Review C</i> , 2020, 101, .	2.9	31
35	Pseudorapidity dependence of parton energy loss in relativistic heavy ion collisions. <i>Physical Review C</i> , 2003, 68, .	2.9	30
36	In-Plane Elliptic Flow of Resonance Particles in Relativistic Heavy-Ion Collisions. <i>Physical Review Letters</i> , 2001, 86, 2754-2757.	7.8	29

#	ARTICLE	IF	CITATIONS
37	Hydrodynamic models. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S845-S851. Centrality-dependent direct photon $\langle \frac{dN}{d\eta d\phi d\tau} \rangle$ in $\langle \frac{dN}{d\eta d\phi} \rangle$	3.6	29
38	$\langle \frac{dN}{d\eta d\phi} \rangle$ in Au+Au collisions at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2006, 73, .	2.9	28
39	Interplay between Mach cone and radial expansion and its signal in $\langle \frac{dN}{d\eta d\phi} \rangle$ in Au+Au collisions at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2016, 93, .	2.9	26
40	3D jet topography of the twisted color glass condensate. Physical Review D, 2006, 73, .	4.7	25
41	Elliptic flow of thermal photons in Au+Au collisions at \sqrt{s} collisions at \sqrt{s}	2.9	23
42	Eccentricity Fluctuation in Initial Conditions of Hydrodynamics. Nuclear Physics A, 2009, 830, 191c-194c.	1.5	23
43	Rapidity decorrelation of anisotropic flow caused by hydrodynamic fluctuations. Physical Review C, 2020, 102, .	2.9	22
44	On the role of initial conditions and final state interactions in ultrarelativistic heavy ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064030.	3.6	19
45	Dynamical modeling of high energy heavy ion collisions. Progress of Theoretical and Experimental Physics, 2012, 2012, .	6.6	18
46	Onset of $\langle \frac{dN}{d\eta d\phi} \rangle$ melting in a quark-gluon fluid at RHIC. Physical Review C, 2007, 76, .	2.9	18
47	Hydrodynamic fluctuations of entropy in one-dimensionally expanding system. Nuclear Physics A, 2019, 984, 44-67.	1.5	14
48	Gribov-Regge theory, partons, remnants, strings and the EPOS model for hadronic interactions. Nuclear Physics, Section B, Proceedings Supplements, 2009, 196, 36-43.	0.4	12
49	CGC, hydrodynamics and the parton energy loss. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1139-S1142.	3.6	11
50	Relativistic Hydrodynamics at RHIC and LHC. Progress of Theoretical Physics Supplement, 2007, 168, 347-354.	0.1	11
51	Onset of $\langle \frac{dN}{d\eta d\phi} \rangle$ melting in quark-gluon fluid at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104137.	3.6	11
52	Can transport peak explain the low-mass enhancement of dileptons at RHIC?. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124184.	3.6	11
53	Hydrodynamic fluctuations in Pb + Pb collisions at LHC. Nuclear Physics A, 2017, 967, 445-448.	1.5	11
54	Hydrodynamic afterburner for the colour glass condensate at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1-S14.	3.6	10

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55	Elliptic flow of thermal photons at midrapidity in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Nuclear Physics A, 2009, 830, 587c-590c.	1.5	10
56	Longitudinal viscous hydrodynamic evolution for the shattered colour glass condensate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 703, 583-587.	4.1	10
57	Causal hydrodynamic fluctuation in Bjorken expansion. Nuclear Physics A, 2016, 956, 781-784.	1.5	10
58	Effects of Bulk Viscosity on p - T Spectra and Elliptic Flow Parameter. Nuclear Physics A, 2009, 830, 471c-474c.	1.5	9
59	Enhancement of strange baryons in high-multiplicity proton-proton nucleus collisions. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	9
60	Muon pairs from In + In collision at energies available at the CERN Super Proton Synchrotron. Physical Review C, 2012, 85, .	2.9	8
61	Effects of hydrodynamic and initial longitudinal fluctuations on rapidity decorrelation of collective flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137053.	4.1	8
62	Hadron-string cascade versus hydrodynamics in Cu+Cu collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2005, 72, .	2.9	7
63	Interplay between core and corona components in high-energy nuclear collisions. Physical Review C, 2022, 105, .	2.9	7
64	What can we learn from hydrodynamic analysis of elliptic flow?. Nuclear Physics A, 2006, 774, 531-534.	1.5	6
65	JET-FLUID STRING FORMATION AND DECAY IN HIGH-ENERGY HEAVY-ION COLLISIONS. International Journal of Modern Physics E, 2007, 16, 2338-2343.	1.0	6
66	The search for a ridge structure origin with shower broadening and jet quenching. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104083.	3.6	6
67	Electron-muon correlation as a new probe of strongly interacting quark-gluon plasma. Physical Review C, 2009, 80, .	2.9	6
68	Rapidity decorrelation from hydrodynamic fluctuations. Nuclear Physics A, 2019, 982, 339-342.	1.5	6
69	Thermal Photon Emission from a QGP Fluid. Progress of Theoretical Physics, 1997, 98, 129-142.	2.0	4
70	Jet quenching and direct photon production. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064072.	3.6	4
71	Hydrodynamic analysis of heavy-ion collisions at the RHIC. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064031.	3.6	4
72	Relativistic Viscous Hydrodynamics for Multi-Component Systems with Multiple Conserved Currents. Journal of Physics: Conference Series, 2011, 270, 012042.	0.4	4

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73	Low-mass dilepton production through transport processes in a quark-gluon plasma. Physical Review C, 2012, 85, .	2.9	4
74	Multiplicity fluctuations and collective flow in small colliding systems. Nuclear Physics A, 2017, 967, 357-360.	1.5	4
75	200 A GeV Au+Au Collisions Serve a Nearly Perfect Quark-Gluon Liquid. , 0, .		4
76	Energy loss of partons traversing a QGP fluid. Nuclear Physics A, 2003, 721, C277-C280.	1.5	3
77	Dynamics of Relativistic Heavy Ion Collisions and the Quark Gluon Plasma. Progress of Theoretical Physics Supplement, 2012, 195, 1-18.	0.1	3
78	Langevin + Hydrodynamics Approach to Heavy Quark Propagation and Correlation in QGP. Nuclear Physics A, 2009, 830, 865c-868c.	1.5	2
79	Viscous hydrodynamic evolution with non-boost invariant flow for the color glass condensate. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124168.	3.6	2
80	Title is missing!. Acta Physica Polonica B, 2011, 42, 2811.	0.8	2
81	Multiplicity fluctuation from hydrodynamic noise. Nuclear Physics A, 2014, 931, 831-835.	1.5	2
82	Charge-dependent correlations from event-by-event anomalous hydrodynamics. Nuclear Physics A, 2016, 956, 393-396.	1.5	2
83	Violation of mass ordering for multi-strange hadrons at RHIC and LHC. Nuclear Physics A, 2016, 956, 457-460.	1.5	2
84	Analysis of flow observables in small systems using an integrated dynamical model. EPJ Web of Conferences, 2017, 141, 01009.	0.3	2
85	Strangeness Enhancement in p + p, p + Pb, and Pb + Pb Collisions at LHC Energies. , 2019, , .		2
86	Electromagnetic Spectrum from QGP Fluid. Progress of Theoretical Physics Supplement, 1997, 129, 101-104.	0.1	1
87	Hydrodynamic description of non-central collisions at SPS energy. Nuclear Physics A, 2001, 681, 76-79.	1.5	1
88	Analysis of one-and two-particle spectra at RHIC based on a hydrodynamical model. Pramana - Journal of Physics, 2003, 60, 1103-1106.	1.8	1
89	What can we learn from hydrodynamic analysis at RHIC?. European Physical Journal A, 2006, 29, 19-22.	2.5	1
90	Perfect fluidity of sQGP core and dissipative hadronic corona. AIP Conference Proceedings, 2006, , .	0.4	1

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91	Dynamical modeling of relativistic heavy ion collisions. Nuclear Physics A, 2008, 805, 347c-354c.	1.5	1
92	Hadronic dissipative effects on transverse dynamics at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104124.	3.6	1
93	Dynamical Modeling of Nucleus-Nucleus Collisions at High Energies. Nuclear Physics A, 2010, 834, 241c-244c.	1.5	1
94	Emission of Low Momentum Particles at Large Angles from Jet. Nuclear Physics A, 2013, 904-905, 1023c-1026c.	1.5	1
95	Di-jet asymmetric momentum transported by QGP fluid. Nuclear Physics A, 2014, 932, 387-391.	1.5	1
96	Theory summary. Nuclear Physics A, 2014, 926, 220-228.	1.5	1
97	Interplay between collective expansion and Mach cone. EPJ Web of Conferences, 2017, 141, 05002.	0.3	1
98	Rapidity decorrelation caused by hydrodynamic fluctuations and initial longitudinal fluctuations. Nuclear Physics A, 2021, 1005, 121969.	1.5	1
99	Rapidity Decorrelation from Hydrodynamic Fluctuations and Initial Fluctuations. , 2019, , .		1
100	Viscous hydrodynamic deformation in rapidity distributions of the color glass condensate. , 2012, , .		1
101	Dynamically Integrated Transport Approach for High-Energy Nuclear Collisions at High Baryon Density. , 2019, , .		1
102	Dynamical Parton Energy Loss in Relativistic Heavy Ion Collisions. Progress of Theoretical Physics Supplement, 2003, 151, 133-137.	0.1	0
103	Perfect fluidity of QGP at RHIC?. AIP Conference Proceedings, 2006, , .	0.4	0
104	3D Jet Tomography and the Twisted Color Glass Condensate. Nuclear Physics A, 2006, 774, 593-596.	1.5	0
105	Elliptic flow of direct photons in Au+Au collisions at 200 GeV. Chinese Physics C, 2010, 34, 1433-1435.	3.7	0
106	Suppression of high p _T hadrons in Pb + Pb collisions at $\sqrt{s} = 2.76$ TeV. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124115.	3.6	0
107	Heavy-Ion Physics in a Nutshell. EPJ Web of Conferences, 2013, 49, 02001.	0.3	0
108	Hydrodynamic excitation by jets in the expanding QGP. Nuclear and Particle Physics Proceedings, 2016, 276-278, 173-176.	0.5	0

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109	Interplay between Mach cone and radial expansion in jet events. Nuclear Physics A, 2016, 956, 577-580.	1.5	0
110	Unified description from small to large colliding systems within dynamical coreâ€“corona initialisation. Nuclear Physics A, 2021, 1005, 121937.	1.5	0
111	Dynamically Integrated Transport Model for High-energy Nuclear Collisions at $(3 \leq \sqrt{s_{NN}} \leq 30)$ GeV. , 2020, , .		0
112	Rapidity Decorrelation from Hydrodynamic Fluctuations and Initial Fluctuations. , 2020, , .		0
113	Strangeness Enhancement from Dynamical Coreâ€“Corona Initialisation Model. Springer Proceedings in Physics, 2020, , 161-165.	0.2	0