

Jan Steinheimer

List of Publications by Year in descending order

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Version: 2024-02-01

158
papers

3,271
citations

126907

33
h-index

175258

52
g-index

158
all docs

158
docs citations

158
times ranked

1512
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of heavy ion transport simulations: Ag + Ag collisions at $E_{\text{lab}} = 1.58A$ GeV. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 055108.	3.6	12
2	Coalescence, the thermal model and multi-fragmentation: the energy and volume dependence of light nuclei production in heavy ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 055107.	3.6	17
3	Constraining baryon annihilation in the hadronic phase of heavy-ion collisions via event-by-event fluctuations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136983.	4.1	10
4	Deuteron production in ultrarelativistic heavy-ion collisions: A comparison of the coalescence and the minimum spanning tree procedure. Physical Review C, 2022, 105, .	2.9	12
5	A chiral mean-field equation-of-state in UrQMD: effects on the heavy ion compression stage. European Physical Journal C, 2022, 82, 1.	3.9	12
6	Shared Data and Algorithms for Deep Learning in Fundamental Physics. Computing and Software for Big Science, 2022, 6, .	2.9	9
7	Harmonic flow correlations in Au+Au reactions at 1.23 AGeV: a new testing ground for the equation-of-state and expansion geometry. European Physical Journal C, 2022, 82, .	3.9	6
8	Low Density Neutron Star Matter with Quantum Molecular Dynamics: The Role of Isovector Interactions. Universe, 2022, 8, 380.	2.5	2
9	Dilepton signature of a first-order phase transition. Physical Review C, 2022, 106, .	2.9	5
10	QCD equation of state at vanishing and high baryon density: Chiral Mean Field model. Nuclear Physics A, 2021, 1005, 121836.	1.5	3
11	A machine learning study on spinodal clumping in heavy ion collisions. Nuclear Physics A, 2021, 1005, 121867.	1.5	2
12	The QCD phase diagram and statistics friendly distributions. Nuclear Physics A, 2021, 1005, 121968.	1.5	2
13	Constraining resonance properties through kaon production in pion-nucleus collisions at low energies. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 025109.	3.6	4
14	Deep Learning Based Impact Parameter Determination for the CBM Experiment. Particles, 2021, 4, 47-52.	1.7	7
15	Unsupervised outlier detection in heavy-ion collisions. Physica Scripta, 2021, 96, 064003.	2.5	21
16	Repulsive properties of hadrons in lattice QCD data and neutron stars. Physical Review C, 2021, 103, .	2.9	12
17	From cosmic matter to the laboratory. Astronomische Nachrichten, 2021, 342, 808-818.	1.2	2
18	Proton correlations and apparent intermittency in the UrQMD model with hadronic potentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136393.	4.1	8

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19	Identifying the nature of the QCD transition in heavy-ion collisions with deep learning. Nuclear Physics A, 2021, 1005, 121891.	1.5	3
20	The possibility of twin star solutions in a model based on lattice QCD thermodynamics. European Physical Journal C, 2021, 81, 1.	3.9	16
21	An equation-of-state-meter for CBM using PointNet. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
22	Ambiguities in the hadro-chemical freeze-out of Au+Au collisions at SIS18 energies and how to resolve them. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136703.	4.1	12
23	Hadronic resonance production and interaction in p - ^{208}Pb collisions at LHC energies in EPOS3. Physical Review C, 2021, 104, .	2.9	20
24	Elliptic flow splitting between protons and antiprotons from hadronic potentials. Modern Physics Letters A, 2020, 35, 2050289.	1.2	3
25	A fast centrality-meter for heavy-ion collisions at the CBM experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135872.	4.1	28
26	Critical point fluctuations: Finite size and global charge conservation effects. Physical Review C, 2020, 102, .	2.9	20
27	First, second, third and fourth flow harmonics of deuterons and protons in Au+Au reactions at 1.23 AGeV. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 055101.	3.6	29
28	Equation of state for hot QCD and compact stars from a mean-field approach. Physical Review C, 2020, 101, .	2.9	48
29	Identifying the nature of the QCD transition in relativistic collision of heavy nuclei with deep learning. European Physical Journal C, 2020, 80, 1.	3.9	41
30	Influence of Centrality Definition and Detector Efficiency on the Net-Proton Kurtosis. Springer Proceedings in Physics, 2020, , 335-343.	0.2	0
31	Scaling properties of flow harmonics of deuterons and protons in Au+Au reactions at 1.23 AGeV. Journal of Physics: Conference Series, 2020, 1667, 012013.	0.4	1
32	Detecting the Hadron-Quark Phase Transition with Gravitational Waves. Universe, 2019, 5, 156.	2.5	14
33	MAGIC - how MATter's extreme phases can be revealed in Gravitational wave observations and in relativistic heavy Ion Collision experiments. Journal of Physics: Conference Series, 2019, 1271, 012023.	0.4	5
34	The QCD Phase Diagram from Statistical Model Analysis. Nuclear Physics A, 2019, 982, 827-830.	1.5	6
35	Modeling Hybrid Stars and Hot Matter. Nuclear Physics A, 2019, 982, 887-890.	1.5	2
36	Lattice-based QCD equation of state at finite baryon density: Cluster Expansion Model. Nuclear Physics A, 2019, 982, 859-862.	1.5	10

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37	QCD at high density: Equation of state for nuclear collisions and neutron stars. Nuclear Physics A, 2019, 982, 891-894.	1.5	11
38	Neutron Star Mergers: Probing the EoS of Hot, Dense Matter by Gravitational Waves. Particles, 2019, 2, 44-56.	1.7	44
39	Entropy production and reheating at the chiral phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 557-562.	4.1	14
40	Deuteron production from phase-space coalescence in the UrQMD approach. Physical Review C, 2019, 99, .	2.9	66
41	Transverse momentum and rapidity dependence of collective flow harmonics of protons and deuterons in Au+Au reactions at 1.23 AGeV. Astronomische Nachrichten, 2019, 340, 996-1000.	1.2	3
42	A machine learning study to identify spinodal clumping in high energy nuclear collisions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	41
43	Backward nucleon production by heavy baryonic resonances in proton-nucleus collisions. Physical Review C, 2019, 100, .	2.9	1
44	Transport model calculations of deuteron production in relativistic hadron and heavy-ion collisions. Astronomische Nachrichten, 2019, 340, 977-982.	1.2	4
45	First results of EPOSHQ model for open heavy flavor production in AA at RHIC and LHC. , 2019, , .		0
46	Matter And Gravitation In Collisions of heavy ions and neutron stars: equation of state. , 2019, , .		1
47	QCD equation of state at finite baryon density with fugacity expansion. , 2019, , .		0
48	Exotic matter in neutron stars and the equation of state. , 2019, , .		0
49	Broadening of the chiral critical region in a hydrodynamically expanding medium. European Physical Journal A, 2018, 54, 1.	2.5	11
50	Higher order net-proton number cumulants dependence on the centrality definition and other spurious effects. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 025101.	3.6	13
51	Testing charm quark equilibration in ultrahigh-energy heavy ion collisions with fluctuations. Physical Review C, 2018, 97, .	2.9	1
52	Conserved charge fluctuations are not conserved during the hadronic phase. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 32-37.	4.1	14
53	The enhancement of v_4 in nuclear collisions at the highest densities signals a first-order phase transition. European Physical Journal A, 2018, 54, 1.	2.5	12
54	Large proton cumulants from the superposition of ordinary multiplicity distributions. Physical Review C, 2018, 98, .	2.9	27

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55	Cumulants of the baryon number from central Au+Au collision at Elab=1.23 GeV/nucleon reveal the nuclear mean-field potentials. Physical Review C, 2018, 98, .	2.9	9
56	Resonance production in high energy collisions from small to big systems. EPJ Web of Conferences, 2018, 171, 09002.	0.3	10
57	Dense and hot matter in compact stars and heavy-ion collisions. EPJ Web of Conferences, 2018, 171, 08002.	0.3	0
58	The Hot and Dense QCD Equation of State in Heavy Ion Collisions and Neutron Star Mergers. Springer Proceedings in Physics, 2018, , 191-198.	0.2	1
59	Directed, elliptic and triangular flow of protons in Au+Au reactions at 1.23 A GeV: a theoretical analysis of the recent HADES data. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 085101.	3.6	33
60	Cluster expansion model for QCD baryon number fluctuations: No phase transition at $\mu_B = 0$. Physical Review D, 2018, 97, .	0.3	6
61	Final state hadronic rescattering with UrQMD. EPJ Web of Conferences, 2018, 171, 05003.	0.3	6
62	Neutron stars and the equation of state. Journal of Astrophysics and Astronomy, 2018, 39, 1.	1.0	1
63	Enhancement of elliptic flow can signal a first-order phase transition in high-energy heavy-ion collisions. European Physical Journal A, 2018, 54, 1.	2.5	24
64	Nuclear interactions and net-proton number fluctuations in heavy ion collisions at the SIS18 accelerator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 40-45.	4.1	7
65	The QCD Phase Diagram from Statistical Model Analysis. , 2018, , 41-64.		2
66	Clusters and higher moments of proton number fluctuations. , 2018, , .		1
67	Hadronization conditions in relativistic nuclear collisions and the QCD pseudo-critical line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 241-246.	4.1	54
68	Sub-threshold strangeness and charm production in UrQMD. Journal of Physics: Conference Series, 2017, 779, 012017.	0.4	2
69	Equation of state dependence of directed flow in a microscopic transport model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 543-548.	4.1	37
70	Effect of finite particle number sampling on baryon number fluctuations. Physical Review C, 2017, 96, .	2.9	14
71	Sub-threshold charm production in nuclear collisions. Physical Review C, 2017, 95, .	2.9	20
72	Formation of hypernuclei in heavy-ion collisions around the threshold energies. Physical Review C, 2017, 95, .	2.9	32

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73	Higher-order baryon number susceptibilities: Interplay between the chiral and the nuclear liquid-gas transitions. <i>Physical Review C</i> , 2017, 96, .	2.9	43
74	Formation of exotic baryon clusters in ultrarelativistic heavy-ion collisions. <i>Physical Review C</i> , 2017, 96, .	2.9	14
75	Influence of the hadronic phase on observables in ultrarelativistic heavy ion collisions. <i>Physical Review C</i> , 2017, 95, .	2.9	26
76	Concluding Remarks: Connecting Relativistic Heavy Ion Collisions and Neutron Star Mergers by the Equation of State of Dense Hadron- and Quark Matter as signalled by Gravitational Waves. <i>Journal of Physics: Conference Series</i> , 2017, 878, 012031.	0.4	32
77	Sub-threshold charm and strangeness production at <sc>GSI</sc>/<sc>FAIR</sc> energies. <i>Astronomische Nachrichten</i> , 2017, 338, 1101-1104.	1.2	0
78	The QCD Phase Diagram and Hadron Formation in Relativistic Nuclear Collisions. , 2017, , 139-150.		0
79	The application of the Quark-Hadron Chiral Parity-Doublet model to neutron star matter. <i>Astronomy and Astrophysics</i> , 2017, 608, A110.	5.1	29
80	Formation of Hypernuclei in Relativistic Ion Collisions. , 2017, , .		0
81	Sub-threshold Λ and Ξ production by high mass resonances with UrQMD. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 015104.	3.6	50
82	Spinodal amplification and baryon number fluctuations in nuclear collisions at NICA. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	8
83	Influence of kinematic cuts on the net charge distribution. <i>Nuclear Physics A</i> , 2016, 956, 336-339.	1.5	5
84	Relativistic ion collisions as the source of hypernuclei. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	3
85	Heavy quark transport in heavy ion collisions at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider within the UrQMD hybrid model. <i>Physical Review C</i> , 2016, 93, .	2.9	37
86	Hadronic resonance production and interaction in partonic and hadronic matter in the EPOS3 model with and without the hadronic afterburner UrQMD. <i>Physical Review C</i> , 2016, 93, .	2.9	74
87	Formation of deuterons by coalescence: Consequences for deuteron number fluctuations. <i>Physical Review C</i> , 2016, 93, .	2.9	15
88	Heavy baryonic resonances, multistrange hadrons, and equilibration at energies available at the GSI Schwerionensynchrotron, SIS18. <i>Physical Review C</i> , 2016, 93, .	2.9	15
89	Models of quark-hadron matter and compact stars. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
90	Recent results from strangeness in transport models. <i>Journal of Physics: Conference Series</i> , 2016, 668, 012007.	0.4	2

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91	Glueballs amass at the RHIC and LHC! The early quarkless first-order phase transition at $T = 270$ MeV from pure Yang-Mills glue plasma to Hagedorn glueball states. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 015105.	3.6	22
92	Net-proton-number kurtosis and skewness in nuclear collisions: Influence of deuteron formation. Physical Review C, 2015, 92, .	2.9	20
93	Spinodal density enhancements in nuclear collisions at the CBM experiment. Journal of Physics: Conference Series, 2015, 599, 012014.	0.4	0
94	Under-saturation of quarks at early stages of relativistic nuclear collisions: The hot glue initial scenario and its observable signatures. Astronomische Nachrichten, 2015, 336, 744-748.	1.2	13
95	Hadron resonance production and final state hadronic interactions with UrQMD at LHC. EPJ Web of Conferences, 2015, 97, 00026.	0.3	9
96	Latest results from EPOS3 on the production of stable and unstable hadrons. EPJ Web of Conferences, 2015, 97, 00030.	0.3	0
97	Formation of hypermatter and hypernuclei within transport models in relativistic ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 7-14.	4.1	57
98	Compact Stars – How Exotic Can They Be?. , 2015, , 235-243.		0
99	The beam energy dependence of collective flow in heavy ion collisions. , 2015, , .		0
100	Deep sub-threshold $\bar{\Lambda}$ and $\bar{\Lambda}^0$ production in nuclear collisions with the UrQMD transport model. Physical Review C, 2014, 90, .	2.9	42
101	Non-equilibrium phase transition in relativistic nuclear collisions: Importance of the equation of state. Physical Review C, 2014, 89, .	2.9	37
102	Examination of directed flow as a signal for a phase transition in relativistic nuclear collisions. Physical Review C, 2014, 89, .	2.9	67
103	What the collective flow excitation function can tell about the quark-gluon plasma. Nuclear Physics A, 2014, 931, 975-980.	1.5	0
104	Centrality dependence of hadronization and chemical freeze-out conditions in heavy ion collisions at $\sqrt{s} = 2.76$ and 4.13 TeV. Physical Review C, 2014, 90, .	2.9	65
105	Do lattice data constrain the vector interaction strength of QCD?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 241-245.	4.1	30
106	Conserved charge fluctuations in a chiral hadronic model including hadrons and quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 176-182.	4.1	5
107	Particle Production in Nuclear Collisions: Hadronization and QCD. Journal of Physics: Conference Series, 2014, 556, 012021.	0.4	0
108	Strangeness in Quark Matter: Opening Talk. Journal of Physics: Conference Series, 2014, 509, 012002.	0.4	4

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109	Hadron Formation in Relativistic Nuclear Collisions and the QCD Phase Diagram. Physical Review Letters, 2013, 111, 082302.	7.8	137
110	Chiral hadronic mean field model including quark degrees of freedom. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 085001.	3.6	4
111	Nonthermal $\frac{p}{T} \in \frac{1}{T}$ Ratio at LHC as a Consequence of Hadronic Final State Interactions. Physical Review Letters, 2013, 110, 042501.	7.8	86
112	Hybrid stars in an SU(3) parity doublet model. Physical Review C, 2013, 87, .	2.9	47
113	Spinodal density enhancements in simulations of relativistic nuclear collisions. Physical Review C, 2013, 87, .	2.9	34
114	Heavy quark transport at RHIC and LHC. Journal of Physics: Conference Series, 2013, 426, 012032.	0.4	13
115	Hadronic Freeze-Out in A+A Collisions meets the Lattice QCD Parton-Hadron Transition Line. , 2013, , .		1
116	From d-Bars to Antimatter- and Hyperclusters. , 2013, , 275-289.		0
117	Structure and Cooling of Neutron and Hybrid Stars. , 2013, , 323-332.		0
118	Spinodal Crumbling. , 2013, , .		0
119	Correlated D-meson decays competing against thermal QGP dilepton radiation. , 2013, , .		0
120	Anti- and Hypermatter Research at the Facility for Antiproton and Ion Research FAIR. , 2013, , .		0
121	QCD Equation of State From a Chiral Hadronic Model Including Quark Degrees of Freedom. , 2013, , .		0
122	Title is missing!. Acta Physica Polonica B, 2012, 43, 749.	0.8	5
123	Title is missing!. Acta Physica Polonica B, 2012, 43, 731.	0.8	14
124	Title is missing!. Acta Physica Polonica B, 2012, 43, 619.	0.8	1
125	Hydrodynamics at large baryon densities: Understanding proton versus anti-proton $v < 2 < /math >$ and other puzzles. Physical Review C, 2012, 86, .	2.9	41
126	Spinodal Amplification of Density Fluctuations in Fluid-Dynamical Simulations of Relativistic Nuclear Collisions. Physical Review Letters, 2012, 109, 212301.	7.8	101

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127	Baryon resonances in a chiral hadronic model for the QCD equation of state. <i>Physical Review C</i> , 2012, 85, .	2.9	8
128	Anti- and Hypermatter Research at the Facility for Antiproton and Ion Research FAIR. <i>Journal of Physics: Conference Series</i> , 2012, 389, 012022.	0.4	3
129	Hypernuclei, dibaryon and antinuclei production in high energy heavy ion collisions: Thermal production vs. coalescence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 714, 85-91.	4.1	132
130	Resonance states in an effective chiral hadronic model. <i>Open Physics</i> , 2012, 10, .	1.7	1
131	Extraction of the sound velocity from rapidity spectra: Evidence for QGP formation at FAIR/RHIC-BES energies. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	17
132	Production of hypernuclei in peripheral collisions of relativistic ions. <i>Nuclear Physics A</i> , 2012, 881, 228-239.	1.5	15
133	Recent developments on the UrQMD hybrid model. <i>Physics of Atomic Nuclei</i> , 2012, 75, 759-763.	0.4	2
134	Sensitivity of the final resonance spectra on the hydrodynamical freeze out. <i>EPJ Web of Conferences</i> , 2012, 36, 00002.	0.3	6
135	Observables and Predictions. <i>Lecture Notes in Physics</i> , 2011, , 681-847.	0.7	18
136	Dimuon radiation at relativistic energies available at the CERN Super Proton Synchrotron within a (3+1)D hydrodynamic + cascade model. <i>Physical Review C</i> , 2011, 84, .	2.9	23
137	The problem of repulsive quark interactions – Lattice versus mean field models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 257-261.	4.1	39
138	Core-corona separation in the UrQMD hybrid model. <i>Physical Review C</i> , 2011, 84, .	2.9	22
139	Production of spectator hypermatter in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2011, 84, .	2.9	41
140	Hadronic SU(3) parity doublet model for dense matter and its extension to quarks and the strange equation of state. <i>Physical Review C</i> , 2011, 84, .	2.9	88
141	An effective chiral hadron-quark equation of state. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 035001.	3.6	98
142	Strangeness production at SPS energies in a (3+1)-dimensional Boltzmann+hydrodynamics approach. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 094038.	3.6	1
143	Phase structure of strongly interacting matter and simulations of heavy-ion collisions using a quark-hadron model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 094041.	3.6	0
144	Strangeness production in hadronic models and recombination models. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 094010.	3.6	1

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145	Hydrodynamics with a chiral hadronic equation of state including quark degrees of freedom. Physical Review C, 2010, 81, .	2.9	61
146	AN INTEGRATED HYDRO AND BOLTZMANN APPROACH TO HEAVY ION REACTIONS. International Journal of Modern Physics D, 2010, 19, 1651-1659.	2.1	0
147	Strange perspectives at FAIR. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 094026.	3.6	4
148	Strangeness at the International Facility for Antiproton and Ion Research. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064036.	3.6	1
149	The $\langle m_T \rangle$ excitation function: freeze-out and equation of state dependence. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 055104.	3.6	31
150	Strangeness at the international Facility for Antiproton and Ion Research. Progress in Particle and Nuclear Physics, 2009, 62, 313-317.	14.4	11
151	Highlights of strangeness physics at FAIR. Nuclear Physics A, 2009, 827, 624c-629c.	1.5	12
152	A transport calculation with an embedded (3+1)d hydrodynamic evolution: Elliptic flow as a function of transverse momentum at SPS energies. Nuclear Physics A, 2009, 830, 283c-286c.	1.5	3
153	Effects of a phase transition on HBT correlations in an integrated Boltzmann+hydrodynamics approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 111-116.	4.1	45
154	Strangeness fluctuations and MEMO production at FAIR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 126-131.	4.1	32
155	Elliptic flow in an integrated (3+1)d microscopic + macroscopic approach with fluctuating initial conditions. European Physical Journal C, 2009, 62, 31-36.	3.9	11
156	Fully integrated transport approach to heavy ion reactions with an intermediate hydrodynamic stage. Physical Review C, 2008, 78, .	2.9	309
157	(3+1)-dimensional hydrodynamic expansion with a critical point from realistic initial conditions. Physical Review C, 2008, 77, .	2.9	74
158	Photons from relativistic nuclear collisions. European Journal of Physics, 0, , .	0.6	0