

Piotr Bozek

List of Publications by Year in descending order

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121
papers

3,572
citations

126907

33
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144013

57
g-index

121
all docs

121
docs citations

121
times ranked

3440
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective flow in p -Pb and Pb collisions at TeV energies. Physical Review C, 2012, 85, .	2.9	227
2	Collective dynamics in high-energy proton-nucleus collisions. Physical Review C, 2013, 88, .	2.9	186
3	Correlations from hydrodynamic flow in pPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1557-1561.	4.1	175
4	Bulk and shear viscosities of matter created in relativistic heavy-ion collisions. Physical Review C, 2010, 81, .	2.9	156
5	GLISSANDO: GLauber Initial-State Simulation AND mOreâ€¦. Computer Physics Communications, 2009, 180, 69-83.	7.5	153
6	Flow and interferometry in $(3 + 1)$ -dimensional viscous hydrodynamics. Physical Review C, 2012, 85, .	2.9	148
7	Mass Hierarchy in Identified Particle Distributions in Proton-Lead Collisions. Physical Review Letters, 2013, 111, 172303.	7.8	116
8	Particle spectra in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2012, 85, .	2.9	113
9	Fluctuating initial conditions in heavy ion collisions from the Glauber approach. Physical Review C, 2007, 76, .	2.9	98
10	Directed flow in ultrarelativistic heavy-ion collisions. Physical Review C, 2010, 81, .	2.9	97
11	GLISSANDO 2: GLauber Initial-State Simulation AND mOreâ€¦, ver.Â2. Computer Physics Communications, 2014, 185, 1759-1772.	7.5	88
12	Torqued fireballs in relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	2.9	87
13	Elliptic flow in proton-proton collisions at $\sqrt{s} = 7.6$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	82
14	Components of the elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 283-286.	2.9	54
15	Transverse-momentum fluctuations in relativistic heavy-ion collisions from event-by-event viscous hydrodynamics. Physical Review C, 2012, 85, .	2.9	59
16	Wounded quarks in p -Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2016, 94, .	2.9	54
17	Large Directed Flow of Open Charm Mesons Probes the Three-Dimensional Distribution of Matter in Heavy-Ion Collisions. Physical Review Letters, 2018, 120, 192301.	7.8	53
18	In-medium T matrix for nuclear matter with three-body forces: Binding energy and single-particle properties. Physical Review C, 2008, 78, .	2.9	52

#	ARTICLE	IF	CITATIONS
19	Two and many particle correlations in nuclear and high energy physics. Physics Reports, 1995, 252, 101-176.	25.6	49
20	Superfluid nuclear matter calculations. Nuclear Physics A, 1999, 657, 187-215.	1.5	48
21	Size of the emission source and collectivity in ultra-relativistic ^{208}Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 250-253.	4.1	48
22	Transverse-momentum flow correlations in relativistic heavy-ion collisions. Physical Review C, 2016, 93, .	2.9	47
23	Hard photons and neutral pions as probes of hot and dense nuclear matter. Nuclear Physics A, 1997, 622, 404-477.	1.5	44
24	Rapid hydrodynamic expansion in relativistic heavy-ion collisions. Physical Review C, 2009, 79, .	2.9	44
25	Collective flow in ultrarelativistic $^3\text{He}^{60}\text{Au}$ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 308-312.	4.1	43
26	Fluctuation induced equality of multi-particle eccentricities for four or more particles. Nuclear Physics A, 2014, 927, 15-23.	1.5	42
27	Charge Conservation and the Shape of the Ridge of Two-Particle Correlations in Relativistic Heavy-Ion Collisions. Physical Review Letters, 2012, 109, 062301.	7.8	41
28	One-body properties of nuclear matter with off-shell propagation. Physical Review C, 2002, 65, .	2.9	40
29	Self-consistent solution of Galitskii-Feynman equations at finite temperature. Physical Review C, 1999, 59, 2619-2626.	2.9	39
30	The torque effect and fluctuations of entropy deposition in rapidity in ultra-relativistic nuclear collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 206-211.	4.1	38
31	Interplay of drag by hot matter and electromagnetic force on the directed flow of heavy quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134955.	4.1	38
32	Contributions to the event-by-event charge asymmetry dependence for the elliptic flow of $\langle \mathcal{M} \rangle$ and $\langle \mathcal{M}^2 \rangle$ in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 37.	4.1	37
33	Rapidity dependence of elliptic and triangular flow in proton-nucleus collisions from collective dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 301-305.	4.1	36
34	Thermodynamic consistency for nuclear matter calculations. European Physical Journal A, 2001, 11, 271-275.	2.5	32
35	Viscous evolution of the rapidity distribution of matter created in relativistic heavy-ion collisions. Physical Review C, 2008, 77, .	2.9	30
36	Thermodynamic properties of nuclear matter with three-body forces. Physical Review C, 2009, 80, .	2.9	30

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37	Longitudinal decorrelation measures of flow magnitude and event-plane angles in ultrarelativistic nuclear collisions. <i>Physical Review C</i> , 2018, 97, .	2.9	30
38	The balance function in azimuthal angle is a measure of the transverse flow. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 609, 247-251.	4.1	29
39	Hydrodynamic modeling of $^3\text{He}+^{\text{Au}}$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 747, 135-138.	4.1	28
40	Hydrodynamic predictions for Pb + Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 694, 238-241.	4.1	27
41	$^{\text{C}}$ clusters and collective flow in ultrarelativistic heavy-nucleus collisions. <i>Physical Review C</i> , 2014, 90, .	2.9	27
42	Reduction of the superfluid gap by scattering. <i>Physical Review C</i> , 2000, 62, .	2.9	26
43	Pion, kaon, and proton femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV modeled in (3+1)D hydrodynamics. <i>Physical Review C</i> , 2014, 90, .	2.9	26
44	The rapidity dependence of the average transverse momentum in p+Pb collisions at the LHC: The Color Glass Condensate versus hydrodynamics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 728, 662-665.	4.1	25
45	Time-dependent mean-field description for multiple electron transfer in slow ion-cluster collisions. <i>Physical Review A</i> , 1998, 57, R3165-R3168.	2.5	24
46	Balance Functions in a Thermal Model with Resonances. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2005, 22, 149-157.	0.4	23
47	Transverse momentum fluctuations in ultrarelativistic Pb-Pb collisions with wounded quarks. <i>Physical Review C</i> , 2017, 96, .	2.9	23
48	Nuclear matter with off-shell propagation. <i>European Physical Journal A</i> , 2002, 15, 325-328.	2.5	22
49	Correlation coefficient between harmonic flow and transverse momentum in heavy-ion collisions. <i>Physical Review C</i> , 2020, 101, .	2.9	22
50	Event-by-event viscous hydrodynamics for $^{\text{Cu}}$ Au collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 551, 93-97.	4.1	21
51	Superfluidity with dressed nucleons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 551, 93-97.	4.1	20
52	Event-by-event viscous hydrodynamics for $^{\text{Cu}}$ Au collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 551, 93-97.	4.1	20
53	GLISSANDO 3: Glauber Initial-State Simulation AND mOre, ver. 3. Computer Physics Communications, 2019, 245, 106850.	7.5	20
54	Subthreshold Pion Dynamics as a Source for Hard Photons beyond Proton-Neutron Bremsstrahlung in Heavy-Ion Collisions. <i>Physical Review Letters</i> , 1996, 76, 2412-2415.	7.8	18

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55	Hydrodynamic modeling of pseudorapidity flow correlations in relativistic heavy-ion collisions and the torque effect. <i>Physical Review C</i> , 2015, 91, .	2.9	17
56	Multiparticle long-range rapidity correlations from fluctuation of the fireball longitudinal shape. <i>Physical Review C</i> , 2016, 93, .	2.9	17
57	Title is missing!. <i>Acta Physica Polonica B</i> , 2012, 43, 689.	0.8	17
58	Indications of early thermalization in relativistic heavy-ion collisions. <i>Physical Review C</i> , 2011, 83, .	2.9	16
59	Azimuthally sensitive femtoscopy in event-by-event hydrodynamics. <i>Physical Review C</i> , 2014, 89, .	2.9	16
60	Diagrammatic calculation of thermodynamical quantities in nuclear matter. <i>Physical Review C</i> , 2006, 74, .	2.9	15
61	Two-particle correlations in pseudorapidity in a hydrodynamic model. <i>Physical Review C</i> , 2015, 92, .	2.9	15
62	Simple model for rapidity fluctuations in the initial state of ultrarelativistic heavy-ion collisions. <i>Physical Review C</i> , 2016, 93, .	2.9	15
63	Short-range correlations in asymmetric nuclear matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 586, 239-243.	4.1	13
64	Correlations and effective interactions in nuclear matter. <i>Physical Review C</i> , 2006, 74, .	2.9	13
65	Principal component analysis of the nonlinear coupling of harmonic modes in heavy-ion collisions. <i>Physical Review C</i> , 2018, 97, .	2.9	13
66	Production of resonances in a thermal model: invariant-mass spectra and balance functions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, S1321-S1324.	3.6	12
67	Interferometry radii in heavy-ion collisions at $\sqrt{s}=200\text{GeV}$ and 2.76 TeV. <i>Physical Review C</i> , 2011, 83, .	2.9	12
68	Elliptic Flow in Ultrarelativistic Collisions with Polarized Deuterons. <i>Physical Review Letters</i> , 2018, 121, 202301.	7.8	12
69	Azimuthal angle dependence of the charge imbalance from charge conservation effects. <i>Physical Review C</i> , 2018, 97, .	2.9	12
70	Power laws for ratios of moments of the fragment size distribution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 262, 383-387.	4.1	11
71	Particle production in quantum transport theories. <i>Physical Review C</i> , 1997, 56, 1452-1466.	2.9	11
72	In-medium Tmatrix for neutron matter. <i>Physical Review C</i> , 2002, 66, .	2.9	11

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73	Interplay of the emission from thermal and direct sources in relativistic heavy ion collisions. Physical Review C, 2009, 79, .	2.9	10
74	Angle and magnitude decorrelation in the factorization breaking of collective flow. Physical Review C, 2018, 98, .	2.9	10
75	Effect of bulk viscosity on interferometry correlations in ultrarelativistic heavy-ion collisions. Physical Review C, 2017, 95, .	2.9	8
76	Fractal structures in multiparticle production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 251, 623-628.	4.1	7
77	Multiplicity distributions in small rapidity bins and the structure of the multiparticle correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 254, 502-506.	4.1	7
78	Time development of a density perturbation in the unstable nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 383, 121-126.	4.1	7
79	Hydrodynamic approach to p - Pb . Nuclear Physics A, 2014, 926, 16-23.	1.5	7
80	Higher order cumulants of transverse momentum and harmonic flow in relativistic heavy ion collisions. Physical Review C, 2021, 104, .	2.9	7
81	Finite size effects in the intermittency analysis of the fragment-size correlations. Nuclear Physics A, 1992, 539, 693-712.	1.5	6
82	Dynamical response functions in correlated fermionic systems. Annals of Physics, 2005, 318, 245-265.	2.8	6
83	Spectra, flow and HBT in Pb - Pb collisions at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124043.	3.6	6
84	Femtoscopic analysis of d - ^{197}Au interactions at $\sqrt{s}=200$ GeV. Physical Review C, 2014, 90, .	2.9	6
85	Pseudorapidity profile of transverse momentum fluctuations in heavy ion collisions. Physical Review C, 2017, 96, .	2.9	6
86	Factorization breaking for higher moments of harmonic flow. Physical Review C, 2022, 105, .	2.9	6
87	Intermittency and clustering in the 1D lattice gas model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 265, 133-136.	4.1	5
88	Fluctuations in the hadronization. Nuclear Physics A, 1992, 545, 297-309.	1.5	5
89	Hydrodynamic Models of Ultrarelativistic Collisions. Acta Physica Polonica B, 2014, 45, 1337.	0.8	5
90	Elliptic flow in ultrarelativistic collisions with light polarized nuclei. Physical Review C, 2020, 101, .	2.9	5

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91	Transport theory with self-consistent confinement related to the lattice data. Physical Review C, 1998, 57, 3263-3270.	2.9	4
92	Balance Functions from a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 49-52.	0.4	4
93	Small systems "hydrodynamics. Nuclear Physics A, 2016, 956, 208-215.	1.5	4
94	Observation of the Mott effect in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 31-36.	4.1	3
95	Dressed vertices. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 579, 309-315.	4.1	3
96	Flow in collisions of light nuclei. Nuclear Physics A, 2021, 1005, 121763.	1.5	3
97	The singular multiparticle correlation function and the $\hat{\pm}$ -model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 271, 243-246.	4.1	2
98	Spatiotemporal intermittency in ultrarelativistic nuclear collisions. Physical Review C, 1991, 44, 1620-1628.	2.9	2
99	Modeling global event properties using hydrodynamics from RHIC to LHC. , 2012, , .		2
100	Collective flow in small systems. Nuclear Physics A, 2014, 931, 883-887.	1.5	2
101	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 1057.	0.1	2
102	Transport equations and features of the long-wavelength oscillation of the quark-gluon plasma. Physical Review D, 1990, 41, 634-646.	4.7	1
103	Finite-size effect in intermittency. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 204-206.	4.1	1
104	Nonlinearities of the Vlasov equation in the spinodal region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 1-6.	4.1	1
105	Time-dependent local density approximation for cluster-ion collisions. European Physical Journal D, 1998, 48, 838-840.	0.4	1
106	Forward-Backward Flow Correlations in Relativistic Heavy-Ion Collisions. Progress of Theoretical Physics Supplement, 2012, 193, 323-326.	0.1	1
107	Charge balancing and the fall off of the ridge. Nuclear Physics A, 2013, 904-905, 479c-482c.	1.5	1
108	Hydrodynamic models of particle production - p-Pb collisions. Journal of Physics: Conference Series, 2014, 509, 012017.	0.4	1

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109	Longitudinal correlations in the initial stages of ultra-relativistic nuclear collisions. EPJ Web of Conferences, 2017, 141, 05003.	0.3	1
110	New measures of longitudinal decorrelation of harmonic flow. Nuclear Physics A, 2019, 982, 335-338.	1.5	1
111	Strong directed flow of heavy flavor as a probe of matter distribution in heavy-ion collisions. Nuclear Physics A, 2019, 982, 679-682.	1.5	1
112	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 433.	0.1	1
113	Rapidity Fluctuations in the Initial State. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 189.	0.1	1
114	Finite-size scaling in the multiparticle production. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 473-477.	1.5	0
115	Multiscaling in the hadronization in high energy collisions. Zeitschrift für Physik C-Particles and Fields, 1993, 59, 585-590.	1.5	0
116	Spectral properties of nuclear matter. Journal of Physics: Conference Series, 2006, 35, 373-383.	0.4	0
117	Early dissipation and viscosity. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104148.	3.6	0
118	Modifications of single-particle properties in nuclear matter induced by three-body forces. Progress in Particle and Nuclear Physics, 2009, 62, 371-372.	14.4	0
119	On wounded constituents in nuclear collisions. EPJ Web of Conferences, 2017, 141, 05009.	0.3	0
120	Interferometry correlations in central p+Pb collisions. European Physical Journal C, 2018, 78, 1.	3.9	0
121	Measuring the thermalization time. , 2011, , .		0