Piotr Bozek

List of Publications by Year in descending order

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121 papers	3,572 citations	145106 33 h-index	162838 57 g-index
121 all docs	121 docs citations	121 times ranked	3498 citing authors

#	Article	IF	Citations
1	Factorization breaking for higher moments of harmonic flow. Physical Review C, 2022, 105, .	1.1	6
2	Higher order cumulants of transverse momentum and harmonic flow in relativistic heavy ion collisions. Physical Review C, 2021, 104, .	1.1	7
3	Flow in collisions of light nuclei. Nuclear Physics A, 2021, 1005, 121763.	0.6	3
4	Correlation coefficient between harmonic flow and transverse momentum in heavy-ion collisions. Physical Review C, 2020, 101, .	1.1	22
5	Elliptic flow in ultrarelativistic collisions with light polarized nuclei. Physical Review C, 2020, 101, .	1.1	5
6	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.	1.5	38
7	New measures of longitudinal decorrelation of harmonic flow. Nuclear Physics A, 2019, 982, 335-338.	0.6	1
8	Strong directed flow of heavy flavor as a probe of matter distribution in heavy-ion collisions. Nuclear Physics A, 2019, 982, 679-682.	0.6	1
9	GLISSANDO 3: GLauber Initial-State Simulation AND mOre, ver.Â3. Computer Physics Communications, 2019, 245, 106850.	3.0	20
10	Interferometry correlations in central p+Pb collisions. European Physical Journal C, 2018, 78, 1.	1.4	0
11	Principal component analysis of the nonlinear coupling of harmonic modes in heavy-ion collisions. Physical Review C, 2018, 97, .	1.1	13
12	Elliptic Flow in Ultrarelativistic Collisions with Polarized Deuterons. Physical Review Letters, 2018, 121, 202301.	2.9	12
13	Angle and magnitude decorrelation in the factorization breaking of collective flow. Physical Review C, 2018, 98, .	1.1	10
14	Large Directed Flow of Open Charm Mesons Probes the Three-Dimensional Distribution of Matter in Heavy-Ion Collisions. Physical Review Letters, 2018, 120, 192301.	2.9	53
15	Longitudinal decorrelation measures of flow magnitude and event-plane angles in ultrarelativistic nuclear collisions. Physical Review C, 2018, 97, .	1.1	30
16	Azimuthal angle dependence of the charge imbalance from charge conservation effects. Physical Review C, 2018, 97, .	1.1	12
17	Effect of bulk viscosity on interferometry correlations in ultrarelativistic heavy-ion collisions. Physical Review C, 2017, 95, .	1.1	8
18	Transverse momentum fluctuations in ultrarelativistic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Pb</mml:mi><mml:mo>Â</mml:mo><mml:mo>+</mml:mo><mml:mo> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi><mml:mo>Â</mml:mo><mml:mo>+</mml:mo><mml:mo>A collisions with â€œwoundedâ€•quarks. Physical Review C, 2017, 96, .	1.1	23

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19	Pseudorapidity profile of transverse momentum fluctuations in heavy ion collisions. Physical Review C, 2017, 96, .	1.1	6
20	Longitudinal correlations in the initial stages of ultra-relativistic nuclear collisions. EPJ Web of Conferences, 2017, 141, 05003.	0.1	1
21	On wounded constituents in nuclear collisions. EPJ Web of Conferences, 2017, 141, 05009.	0.1	0
22	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.	1.5	38
23	Small systems â€“ hydrodynamics. Nuclear Physics A, 2016, 956, 208-215.	0.6	4
24	Wounded quarks in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi> and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>p</mml:mi> Physical Review C, 2016, 94, .	1.1	54
25	Transverse-momentumâ€“flow correlations in relativistic heavy-ion collisions. Physical Review C, 2016, 93, .	1.1	47
26	Simple model for rapidity fluctuations in the initial state of ultrarelativistic heavy-ion collisions. Physical Review C, 2016, 93, .	1.1	15
27	Multiparticle long-range rapidity correlations from fluctuation of the fireball longitudinal shape. Physical Review C, 2016, 93, .	1.1	17
28	Rapidity Fluctuations in the Initial State. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 189.	0.0	1
29	Hydrodynamic modeling of 3Heâ€“Au collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="italic">NN</mml:mi></mml:mrow></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>200</mml:mn><mml: Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 135-138.	1.5	28
30	Hydrodynamic modeling of pseudorapidity flow correlations in relativistic heavy-ion collisions and the torque effect. Physical Review C, 2015, 91, .	1.1	17
31	Two-particle correlations in pseudorapidity in a hydrodynamic model. Physical Review C, 2015, 92, .	1.1	15
32	Rapidity dependence of elliptic and triangular flow in protonâ€“nucleus collisions from collective dynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 301-305.	1.5	36
33	Collective flow in ultrarelativistic 3 Heâ€“Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 308-312.	1.5	43
34	Femtoscopy analysis ofdâ^'Auinteractions ats=200GeV. Physical Review C, 2014, 90, .	1.1	6
35	Pion, kaon, and proton femtoscopy in Pb-Pb collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msqrt><mml:msub><mml:mi>s</mml:mi></mml:mj><mml:mj mathvariant="italic">NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn></mml:mrow></mml:m modeled in (3+1)D hydrodynamics. Physical Review C, 2014, 90, .	1.1	26
36	Hydrodynamic Models of Ultrarelativistic Collisions. Acta Physica Polonica B, 2014, 45, 1337.	0.3	5

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37	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="bold">Î±</mml:mi></mml:math>clusters and collective flow in ultrarelativistic carbonâ€“heavy-nucleus collisions. Physical Review C, 2014, 90, .	1.1	27
38	Azimuthally sensitive femtoscopy in event-by-event hydrodynamics. Physical Review C, 2014, 89, .	1.1	16
39	Collective flow in small systems. Nuclear Physics A, 2014, 931, 883-887.	0.6	2
40	Hydrodynamic models of particle production - p-Pb collisions. Journal of Physics: Conference Series, 2014, 509, 012017.	0.3	1
41	GLISSANDO 2: GLauber Initial-State Simulation AND mOreâ€¦, ver.Â2. Computer Physics Communications, 2014, 185, 1759-1772.	3.0	88
42	Hydrodynamic approach to pâ€“Pb. Nuclear Physics A, 2014, 926, 16-23.	0.6	7
43	The rapidity dependence of the average transverse momentum in p+Pb collisions at the LHC: The Color Glass Condensate versus hydrodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 662-665.	1.5	25
44	Fluctuation induced equality of multi-particle eccentricities for four or more particles. Nuclear Physics A, 2014, 927, 15-23.	0.6	42
45	Collective dynamics in high-energy proton-nucleus collisions. Physical Review C, 2013, 88, .	1.1	186
46	Size of the emission source and collectivity in ultra-relativistic pâ€“Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 720, 250-253.	1.5	48
47	Charge balancing and the fall off of the ridge. Nuclear Physics A, 2013, 904-905, 479c-482c.	0.6	1
48	Contributions to the event-by-event charge asymmetry dependence for the elliptic flow of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow></m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></mml:mrow></ in heavy-ion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726,	1.5	37
49	Correlations from hydrodynamic flow in pPb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1557-1561.	1.5	175
50	Mass Hierarchy in Identified Particle Distributions in Proton-Lead Collisions. Physical Review Letters, 2013, 111, 172303.	2.9	116
51	Modeling global event properties using hydrodynamics from RHIC to LHC. , 2012, , .		2
52	Flow and interferometry in (3 + 1)-dimensional viscous hydrodynamics. Physical Review C, 2012, 85, .	1.1	148
53	Charge Conservation and the Shape of the Ridge of Two-Particle Correlations in Relativistic Heavy-Ion Collisions. Physical Review Letters, 2012, 109, 062301.	2.9	41
54	Particle spectra in Pb-Pb collisions at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:msub><mml:mi mathvariant="bold">s</mml:mi><mml:mi mathvariant="bold">NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn mathvariant="bold">2</mml:mn><mml:mo>.</mml:mo><mml:mn mathvariant="bold">76</mml:mn></mml:mrow></mml:math>TeV. Physical Review C, 2012, 85, .	1.1	113

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55	Transverse-momentum fluctuations in relativistic heavy-ion collisions from event-by-event viscous hydrodynamics. Physical Review C, 2012, 85, .	1.1	59
56	Collective flow in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Pb and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-Pb collisions at TeV energies. Physical Review C, 2012, 85, .	1.1	227
57	Forward-Backward Flow Correlations in Relativistic Heavy-Ion Collisions. Progress of Theoretical Physics Supplement, 2012, 193, 323-326.	0.2	1
58	Event-by-event viscous hydrodynamics for Cuâ€“Au collisions at <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.5	20
59	Title is missing!. Acta Physica Polonica B, 2012, 43, 689.	0.3	17
60	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 1057.	0.0	2
61	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 433.	0.0	1
62	Elliptic flow in protonâ€“proton collisions at $sqrt{s}=7$ ÂTeV. European Physical Journal C, 2011, 71, 1.	1.4	82
63	Components of the elliptic flow in Pbâ€“Pb collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn><mml:mtext> TeV</mml:mtext></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 283-286.	1.5	61
64	Torqued fireballs in relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	1.1	87
65	Interferometry radii in heavy-ion collisions ats=200GeV and 2.76 TeV. Physical Review C, 2011, 83, .	1.1	12
66	Indications of early thermalization in relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	1.1	16
67	Spectra, flow and HBT in Pbâ€“Pb collisions at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124043.	1.4	6
68	Measuring the thermalization time. , 2011, , .		0
69	Hydrodynamic predictions for Pb + Pb collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:msub><mml:mi>s</mml:mi><mml:mi mathvariant="normal">NN</mml:mi></mml:msub></mml:msqrt><mml:mo>=</mml:mo><mml:mn>2.76</mml:mn><mml:mtext> TeV</mml:mtext></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 694, 238-241.	1.5	27
70	Directed flow in ultrarelativistic heavy-ion collisions. Physical Review C, 2010, 81, .	1.1	97
71	Bulk and shear viscosities of matter created in relativistic heavy-ion collisions. Physical Review C, 2010, 81, .	1.1	156
72	Interplay of the emission from thermal and direct sources in relativistic heavy ion collisions. Physical Review C, 2009, 79, .	1.1	10

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73	Rapid hydrodynamic expansion in relativistic heavy-ion collisions. Physical Review C, 2009, 79, .	1.1	44
74	Modifications of single-particle properties in nuclear matter induced by three-body forces. Progress in Particle and Nuclear Physics, 2009, 62, 371-372.	5.6	0
75	GLISSANDO: GLauber Initial-State Simulation AND mOreâ€¦. Computer Physics Communications, 2009, 180, 69-83.	3.0	153
76	Thermodynamic properties of nuclear matter with three-body forces. Physical Review C, 2009, 80, .	1.1	30
77	In-medium<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>T</mml:mi></mml:mrow></mml:math>matrix for nuclear matter with three-body forces: Binding energy and single-particle properties. Physical Review C, 2008, 78, .	1.1	52
78	Early dissipation and viscosity. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104148.	1.4	0
79	Viscous evolution of the rapidity distribution of matter created in relativistic heavy-ion collisions. Physical Review C, 2008, 77, .	1.1	30
80	Fluctuating initial conditions in heavy ion collisions from the Glauber approach. Physical Review C, 2007, 76, .	1.1	98
81	Diagrammatic calculation of thermodynamical quantities in nuclear matter. Physical Review C, 2006, 74, .	1.1	15
82	Correlations and effective interactions in nuclear matter. Physical Review C, 2006, 74, .	1.1	13
83	Spectral properties of nuclear matter. Journal of Physics: Conference Series, 2006, 35, 373-383.	0.3	0
84	Event-by-event <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.5	21
85	The balance function in azimuthal angle is a measure of the transverse flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 609, 247-251.	1.5	29
86	Dynamical response functions in correlated fermionic systems. Annals of Physics, 2005, 318, 245-265.	1.0	6
87	Balance Functions in a Thermal Model with Resonances. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 149-157.	0.4	23
88	Production of resonances in a thermal model: invariant-mass spectra and balance functions. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1321-S1324.	1.4	12
89	Balance Functions from a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 49-52.	0.4	4
90	Dressed vertices. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 579, 309-315.	1.5	3

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91	Short-range correlations in asymmetric nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 586, 239-243.	1.5	13
92	Superfluidity with dressed nucleons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 551, 93-97.	1.5	20
93	In-mediumTmatrix for neutron matter. Physical Review C, 2002, 66, .	1.1	11
94	One-body properties of nuclear matter with off-shell propagation. Physical Review C, 2002, 65, .	1.1	40
95	Nuclear matter with off-shell propagation. European Physical Journal A, 2002, 15, 325-328.	1.0	22
96	Thermodynamic consistency for nuclear matter calculations. European Physical Journal A, 2001, 11, 271-275.	1.0	32
97	Reduction of the superfluid gap by scattering. Physical Review C, 2000, 62, .	1.1	26
98	Superfluid nuclear matter calculations. Nuclear Physics A, 1999, 657, 187-215.	0.6	48
99	Self-consistent solution of Galitskii-Feynman equations at finite temperature. Physical Review C, 1999, 59, 2619-2626.	1.1	39
100	Time-dependent local density approximation for cluster-ion collisions. European Physical Journal D, 1998, 48, 838-840.	0.4	1
101	Observation of the Mott effect in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 31-36.	1.5	3
102	Transport theory with self-consistent confinement related to the lattice data. Physical Review C, 1998, 57, 3263-3270.	1.1	4
103	Time-dependent mean-field description for multiple electron transfer in slow ion-cluster collisions. Physical Review A, 1998, 57, R3165-R3168.	1.0	24
104	Particle production in quantum transport theories. Physical Review C, 1997, 56, 1452-1466.	1.1	11
105	Hard photons and neutral pions as probes of hot and dense nuclear matter. Nuclear Physics A, 1997, 622, 404-477.	0.6	44
106	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.	1.5	7
107	Nonlinearities of the Vlasov equation in the spinodal region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 1-6.	1.5	1
108	Subthreshold Pion Dynamics as a Source for Hard Photons beyond Proton-Neutron Bremsstrahlung in Heavy-Ion Collisions. Physical Review Letters, 1996, 76, 2412-2415.	2.9	18

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109	Two and many particle correlations in nuclear and high energy physics. Physics Reports, 1995, 252, 101-176.	10.3	49
110	Multiscaling in the hadronization in high energy collisions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1993, 59, 585-590.	1.5	0
111	Finite size effects in the intermittency analysis of the fragment-size correlations. Nuclear Physics A, 1992, 539, 693-712.	0.6	6
112	Fluctuations in the hadronization. Nuclear Physics A, 1992, 545, 297-309.	0.6	5
113	Finite-size scaling in the multiparticle production. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1992, 56, 473-477.	1.5	0
114	Intermittency and clustering in the 1D lattice gas model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 265, 133-136.	1.5	5
115	Power laws for ratios of moments of the fragment size distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 262, 383-387.	1.5	11
116	Finite-size effect in intermittency. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 204-206.	1.5	1
117	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.	1.5	7
118	The singular multiparticle correlation function and the Î±-model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 271, 243-246.	1.5	2
119	Spatiotemporal intermittency in ultrarelativistic nuclear collisions. Physical Review C, 1991, 44, 1620-1628.	1.1	2
120	Fractal structures in multiparticle production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 251, 623-628.	1.5	7
121	Transport equations and features of the long-wavelength oscillation of the quark-gluon plasma. Physical Review D, 1990, 41, 634-646.	1.6	1