

Wojciech Florkowski

List of Publications by Year in descending order

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137
papers

4,652
citations

87888

38
h-index

110387

64
g-index

139
all docs

139
docs citations

139
times ranked

2524
citing authors

#	ARTICLE	IF	CITATIONS
1	New theories of relativistic hydrodynamics in the LHC era. Reports on Progress in Physics, 2018, 81, 046001.	20.1	225
2	Highly anisotropic and strongly dissipative hydrodynamics for early stages of relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	2.9	196
3	Description of the RHIC ψ Spectra in a Thermal Model with Expansion. Physical Review Letters, 2001, 87, 272302.	7.8	168
4	Relativistic fluid dynamics with spin. Physical Review C, 2018, 97, .	2.9	154
5	SHARE: Statistical hadronization with resonances. Computer Physics Communications, 2005, 167, 229-251.	7.5	152
6	Testing viscous and anisotropic hydrodynamics in an exactly solvable case. Physical Review C, 2013, 88, .	2.9	151
7	THERMINATOR: THERMal heavy-IoN generATOR. Computer Physics Communications, 2006, 174, 669-687.	7.5	145
8	THERMINATOR 2: THERMal heavy IoN generATOR 2. Computer Physics Communications, 2012, 183, 746-773.	7.5	143
9	Anisotropic hydrodynamics for rapidly expanding systems. Nuclear Physics A, 2013, 916, 249-259.	1.5	128
10	Relativistic hydrodynamics for spin-polarized fluids. Progress in Particle and Nuclear Physics, 2019, 108, 103709.	14.4	116
11	Uniform Description of Soft Observables in Heavy-Ion Collisions at $\sqrt{s} = 2.76$ and 4.13 TeV. Physical Review Letters, 2008, 101, 022301.	7.8	100
12	Spin tensor and its role in non-equilibrium thermodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 419-425.	4.1	93
13	Description of strange particle production in Au+Au collisions of $\sqrt{s_{NN}} = 130$ GeV in a single-freeze-out model. Physical Review C, 2002, 65, .	2.9	86
14	Highly anisotropic hydrodynamics in $3+1$ space-time dimensions. Physical Review C, 2012, 85, .	2.9	80
15	Thermodynamic versus kinetic approach to polarization-vorticity coupling. Physical Review C, 2018, 98, .	2.9	80
16	Relativistic dissipative spin dynamics in the relaxation time approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136096.	4.1	78
17	Spin-dependent distribution functions for relativistic hydrodynamics of spin- $1/2$ particles. Physical Review D, 2018, 97, .	4.7	76
18	Non-boost-invariant motion of dissipative and highly anisotropic fluid. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 015104.	3.6	75

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19	Update of the Hagedorn mass spectrum. Physical Review D, 2004, 70, .	4.7	68
20	Oscillations of quark-gluon plasma generated in strong color fields. Nuclear Physics B, 1988, 296, 611-624.	2.5	67
21	Highly anisotropic and strongly dissipative hydrodynamics with transverse expansion. European Physical Journal C, 2011, 71, 1.	3.9	65
22	Exact solution of the (T_j) Overlock 10 Tf 50 627 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML")	2.9	65
23	Femtoscopy in hydrodynamics-inspired models with resonances. Physical Review C, 2006, 73, .	2.9	64
24	Projection method and new formulation of leading-order anisotropic hydrodynamics. Physical Review C, 2014, 89, .	2.9	64
25	Geometric relation between centrality and the impact parameter in relativistic heavy-ion collisions. Physical Review C, 2002, 65, .	2.9	61
26	Dissipative spin dynamics in relativistic matter. Physical Review D, 2021, 103, .	4.7	55
27	Longitudinal spin polarization in a thermal model. Physical Review C, 2019, 100, .	2.9	54
28	Free-streaming approximation in early dynamics of relativistic heavy-ion collisions. Physical Review C, 2009, 80, .	2.9	53
29	Shear-bulk coupling in nonconformal hydrodynamics. Physical Review C, 2014, 90, .	2.9	51
30	Spin polarization evolution in a boost-invariant hydrodynamical background. Physical Review C, 2019, 99, .	2.9	51
31	Perfect-fluid Hydrodynamics with Constant Acceleration Along the Stream Lines and Spin Polarization. Acta Physica Polonica B, 2018, 49, 1409.	0.8	51
32	Spatial dependence of meson correlation functions at high temperature. Zeitschrift für Physik A, 1994, 347, 271-276.	0.9	50
33	Explanation of hadron transverse-momentum spectra in heavy-ion collisions at $\sqrt{s_{NN}} = 2.76$ TeV within a chemical nonequilibrium statistical hadronization model. Physical Review C, 2014, 90, .		
34	Relativistic quantum transport coefficients for second-order viscous hydrodynamics. Physical Review C, 2015, 91, .	2.9	48
35	Different Hagedorn temperatures for mesons and baryons from experimental mass spectra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 223-227.	4.1	43
36	Bose-Einstein condensation of pions in heavy-ion collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2015, 91, .	2.9	41

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37	Projection method for boost-invariant and cylindrically symmetric dissipative hydrodynamics. Physical Review C, 2012, 85, .	2.9	39
38	Coupled kinetic equations for fermions and bosons in the relaxation-time approximation. Physical Review C, 2018, 97, .	2.9	39
39	Soft heavy-ion physics from hydrodynamics with statistical hadronization: Predictions for collisions at $\sqrt{s} = \sqrt{s_{NN}}$. Physical Review C, 2008, 78, .	2.9	36
40	Leading-order anisotropic hydrodynamics for systems with massive particles. Physical Review C, 2014, 89, .	2.9	36
41	Anisotropic fluid dynamics in the early stage of relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 668, 32-35.	4.1	34
42	Formation of Hubble-like flow in little bangs. Physical Review C, 2005, 71, .	2.9	33
43	Title is missing!. Acta Physica Polonica B, 2011, 42, 115.	0.8	33
44	Thermal analysis of production of resonances in relativistic heavy-ion collisions. Physical Review C, 2003, 68, .	2.9	32
45	Hydrodynamics of anisotropic quark and gluon fluids. Physical Review C, 2013, 87, .	2.9	32
46	Transverse-momentum spectra of strange particles produced in Pb+Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the chemical nonequilibrium model. Physical Review C, 2014, 90, .	2.9	31
47	Transport coefficients of the Gribov-Zwanziger plasma. Physical Review C, 2016, 94, .	2.9	31
48	Azimuthally sensitive femtoscopy in hydrodynamics with statistical hadronization from the BNL Relativistic Heavy Ion Collider to the CERN Large Hadron Collider. Physical Review C, 2009, 79, .	2.9	30
49	Universal multifractality in multiparticle production. Physical Review D, 1991, 43, 1548-1554.	4.7	29
50	Thermal model for RHIC, part II: elliptic flow and HBT radii. AIP Conference Proceedings, 2003, , .	0.4	29
51	Equilibration of anisotropic quark-gluon plasma produced by decays of color flux tubes. Physical Review D, 2013, 88, .	4.7	29
52	Chirally Invariant Transport Equations for Quark Matter. Annals of Physics, 1996, 245, 445-463.	2.8	28
53	Hydrodynamic predictions for Pb + Pb collisions at $\sqrt{s} = \sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 694, 238-241.	4.1	27
54	Balance Functions in a Thermal Model with Resonances. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 149-157.	0.4	23

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55	Gradient expansion for anisotropic hydrodynamics. <i>Physical Review D</i> , 2016, 94, .	4.7	23
56	Melting of the quark condensate in the NJL model with meson loops. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 386, 62-68.	4.1	22
57	<small>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:cb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x</small>	4.1	21
58	Mixture of Anisotropic Fluids. <i>Acta Physica Polonica B</i> , 2013, 44, 2003.	0.8	20
59	Kinetic Description of Mixtures of Anisotropic Fluids. <i>Acta Physica Polonica B</i> , 2014, 45, 1103.	0.8	20
60	Exact solution of the (0+1)-dimensional Boltzmann equation for massive Bose-Einstein and Fermi-Dirac gases. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 045106.	3.6	20
61	Testing different formulations of leading-order anisotropic hydrodynamics. <i>Nuclear Physics A</i> , 2016, 946, 29-48.	1.5	20
62	Bulk Viscosity in a Plasma of Gribov-Zwanziger Gluons. <i>Acta Physica Polonica B</i> , 2016, 47, 1833.	0.8	19
63	Early evolution of transversally thermalized partons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 661, 325-329.	4.1	18
64	Anisotropic hydrodynamics for a mixture of quark and gluon fluids. <i>Physical Review C</i> , 2015, 92, .	2.9	18
65	Intermittency and the Schwinger tunneling mechanism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 229, 398-401.	4.1	17
66	Chromoelectric oscillations in a dynamically evolving anisotropic background. <i>Physical Review D</i> , 2012, 86, .	4.7	17
67	Separation of elastic and inelastic processes in the relaxation-time approximation for the collision integral. <i>Physical Review C</i> , 2016, 93, .	2.9	17
68	Statistical hadronization model for heavy-ion collisions in the few-GeV energy regime. <i>Physical Review C</i> , 2020, 102, .	2.9	17
69	Equivalence between first-order causal and stable hydrodynamics and Israel-Stewart theory for boost-invariant systems with a constant relaxation time. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 806, 135525.	4.1	17
70	Single-freeze-out model for ultrarelativistic heavy-ion collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , 2012, 85, .	2.9	16
71	Non-boost-invariant dissipative hydrodynamics. <i>Physical Review C</i> , 2016, 94, .	2.9	16
72	Spin polarization dynamics in the non-boost-invariant background. <i>Physical Review D</i> , 2022, 105, .	4.7	16

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73	Total $\gamma^*\gamma^*$ cross section and the QCD dipole picture. European Physical Journal C, 1998, 2, 683-689.	3.9	15
74	Scaling of hadron masses and widths in thermal models for ultrarelativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 213-216.	4.1	14
75	Characteristic form of boost-invariant and cylindrically asymmetric hydrodynamic equations. Physical Review C, 2006, 74, .	2.9	14
76	The realistic QCD equation of state in relativistic heavy-ion collisions and the early Universe. Nuclear Physics A, 2011, 853, 173-188.	1.5	14
77	Early anisotropic hydrodynamics and thermalization and Hanbury-Brown&Twiss puzzles in the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2010, 82, .	2.9	13
78	Kinetic coefficients for quark-antiquark plasma with quantum treatment of color. Physical Review D, 1987, 36, 2172-2175.	4.7	12
79	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.	3.6	12
80	Basic Phenomenology for Relativistic Heavy Ion Collisions. Acta Physica Polonica B, 2014, 45, 2329.	0.8	12
81	Anisotropic-hydrodynamics approach to a quark-gluon fluid mixture. Physical Review C, 2018, 97, .	2.9	12
82	Effect of thermal shear on longitudinal spin polarization in a thermal model. Physical Review C, 2022, 105, .	2.9	12
83	Pseudogauge dependence of quantum fluctuations of the energy in a hot relativistic gas of fermions. Physical Review D, 2021, 103, .	4.7	11
84	In-medium modifications of hadron masses and chemical freeze-out in ultra-relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 73-76.	4.1	10
85	General formulation of transverse hydrodynamics. Physical Review C, 2008, 77, .	2.9	10
86	Correspondence between Israel-Stewart and first-order casual and stable hydrodynamics for the boost-invariant massive case with zero baryon density. Physical Review D, 2020, 102, .	4.7	10
87	η/s mixing effects in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 7-11.	4.1	9
88	Subtracted dispersion relations for in-medium meson correlators in QCD sum rules. Nuclear Physics A, 1999, 651, 397-410.	1.5	9
89	A semi-classical boost-invariant description of pair production in chromoelectric field. Zeitschrift f�ur Physik C-Particles and Fields, 1990, 46, 439-444.	1.5	8
90	Soft photon production in the boost-invariant color-flux tube model. Zeitschrift f�ur Physik C-Particles and Fields, 1994, 61, 171-177.	1.5	8

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91	Blast-wave model description of the Hanbury-Brown Twiss radii in pp collisions at LHC energies. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 045001.	3.6	8
92	Relaxation-time approximation with pair production and annihilation processes. <i>Physical Review C</i> , 2020, 102, .	2.9	8
93	Strange particle production in a single-freeze-out model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1087-S1090.	3.6	7
94	Particle spectra and hydro-inspired models. <i>Nuclear Physics A</i> , 2006, 774, 179-188.	1.5	7
95	Anisotropic hydrodynamics. <i>Nuclear Physics A</i> , 2013, 904-905, 803c-806c.	1.5	6
96	Bose-Einstein Correlations and Thermal Cluster Formation in High-energy Collisions. <i>Acta Physica Polonica B</i> , 2014, 45, 1883.	0.8	6
97	Fluid Dynamics for Relativistic Spin-polarized Media. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2018, 11, 507.	0.1	6
98	Critical scattering at the chiral phase transition and low-pT enhancement of mesons in ultra-relativistic heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 349, 18-22.	4.1	5
99	Pion condensation during the hadronization of the quark-gluon plasma in ultra-relativistic heavy-ion collisions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 70, 133-137.	1.5	5
100	Oscillations of the static meson fields at finite baryon density. <i>Nuclear Physics A</i> , 1996, 611, 409-428.	1.5	5
101	Mean-field transport theory for the two-flavour NJL model. <i>European Physical Journal A</i> , 1998, 2, 77-86.	2.5	5
102	Describing transverse dynamics and space-time evolution at RHIC in a hydrodynamic model with statistical hadronization. <i>Nuclear Physics A</i> , 2009, 830, 821c-824c.	1.5	5
103	Vortex-like solutions and internal structures of covariant ideal magnetohydrodynamics. <i>European Physical Journal A</i> , 2018, 54, 1.	2.5	5
104	Convective stability of hot matter in ultrarelativistic heavy-ion collisions. <i>Nuclear Physics A</i> , 1992, 540, 659-674.	1.5	4
105	Λ^+ decay in nuclear medium. <i>Nuclear Physics A</i> , 2001, 696, 870-893.	1.5	4
106	Balance Functions from a Thermal Model. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2004, 21, 49-52.	0.4	4
107	Transverse hydrodynamics with sudden hadronization: production of strangeness. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 094023.	3.6	4
108	Locally anisotropic momentum distributions of hadrons at freeze-out in relativistic heavy-ion collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 025103.	3.6	4

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109	Finite size of hadrons and Bose-Einstein correlations in pp collisions at 7 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 9-12.	4.1	4
110	Strong-coupling effects in a plasma of confining gluons. Nuclear Physics A, 2016, 956, 669-672.	1.5	4
111	Relativistic hydrodynamics with spin. Nuclear Physics A, 2019, 982, 523-526.	1.5	4
112	Blast-wave Model Description of the HBT Radii Measured in pp Collisions at the LHC Energies. Acta Physica Polonica B, 2016, 47, 2241.	0.8	4
113	Large time-scale fluctuations of the quark condensate at high temperature. Physical Review C, 1994, 50, 3069-3078.	2.9	3
114	Thermal description of transverse-momentum spectra at RHIC. Nuclear Physics A, 2003, 715, 875c-878c.	1.5	3
115	Thermal model for RHIC, part I: particle ratios and spectra. AIP Conference Proceedings, 2003, , .	0.4	3
116	Solution of the RHIC HBT puzzle with Gaussian initial conditions. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064067.	3.6	3
117	Thermalization of anisotropic quark-gluon plasma produced by decays of color flux tubes. Nuclear Physics A, 2014, 931, 343-347.	1.5	3
118	Correspondence between Israel-Stewart and first-order causal and stable hydrodynamics for Bjorken-expanding baryon-rich systems with vanishing particle masses. Physical Review D, 2021, 103, .	4.7	3
119	Thermodynamics and Kinetics of Gribov-Zwanziger Plasma with Temperature-dependent Gribov Parameter. Acta Physica Polonica B, 2017, 48, 125.	0.8	3
120	Relativistic Hydrodynamics of Particles with Spin 1/2. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 1139.	0.1	3
121	Deep inelastic scattering of leptons from nuclear targets and the BFKL Pomeron. Physical Review D, 1997, 55, 6830-6838.	4.7	2
122	Event-by-event fluctuations of transverse momentum and multiparticle clusters in relativistic heavy-ion collisions. Brazilian Journal of Physics, 2007, 37, .	1.4	2
123	Thermal model description of the particle spectra in the few-GeV energy regime. EPJ Web of Conferences, 2022, 259, 11008.	0.3	2
124	Production of Resonances in a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 159-163.	0.4	1
125	Anisotropic hydrodynamics and the early-thermalization puzzle. , 2013, , .		1
126	Simple kinetic-theory tests of dissipative and anisotropic hydrodynamics. EPJ Web of Conferences, 2014, 71, 00045.	0.3	1

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127	Convective stability of global thermodynamic equilibrium. Physical Review C, 2019, 99, .	2.9	1
128	Various Approaches to Anisotropic Hydrodynamics. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 555.	0.1	1
129	Early dynamics of transversally thermalized matter. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104073.	3.6	0
130	Anisotropic hydrodynamics and early stages of heavy-ion collisions. EPJ Web of Conferences, 2015, 90, 08002.	0.3	0
131	Applications of dissipative and anisotropic hydrodynamics in description of early stages of relativistic heavy-ion collisions. EPJ Web of Conferences, 2015, 95, 03009.	0.3	0
132	Bulk and shear viscosities for the Gribov-Zwanziger plasma. EPJ Web of Conferences, 2016, 120, 06003.	0.3	0
133	Transverse-momentum spectra of strange particles produced in Pb+Pb collisions at $\sqrt{s} = 2.76$ TeV in the chemical non-equilibrium model. Journal of Physics: Conference Series, 2017, 779, 012054.	0.4	0
134	Hydrodynamics of massive particles with spin 1/2. Nuclear Physics A, 2021, 1005, 121841.	1.5	0
135	ADHYDRO - hydrodynamics-like model for highly anisotropic systems. , 2011, , .		0
136	Kinetic Properties of the Gribov-Zwanziger Plasma. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 497.	0.1	0
137	Interpretation of Λ hyperon spin polarization measurements. EPJ Web of Conferences, 2022, 259, 11011.	0.3	0