Wojciech Florkowski

List of Publications by Year
in descending order

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	Thermal model description of the particle spectra in the few-GeV energy regime. EPJ Web of Conferences, 2022, 259, 11008.	0.3	2
2	Interpretation of Λ hyperon spin polarization measurements. EPJ Web of Conferences, 2022, 259, 11011.	0.3	0
3	Spin polarization dynamics in the non-boost-invariant background. Physical Review D, 2022, 105, .	4.7	16
4	Effect of thermal shear on longitudinal spin polarization in a thermal model. Physical Review C, 2022, 105, .	2.9	12
5	Hydrodynamics of massive particles with spin 1/2. Nuclear Physics A, 2021, 1005, 121841.	1.5	0
6	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
7	Pseudogauge dependence of quantum fluctuations of the energy in a hot relativistic gas of fermions. Physical Review D, 2021, 103, .	4.7	11
8	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
9	Dissipative spin dynamics in relativistic matter. Physical Review D, 2021, 103, .	4.7	55
10	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
11	Statistical hadronization model for heavy-ion collisions in the few-GeV energy regime. Physical Review C, 2020, 102, .	2.9	17
12	Equivalence between first-order causal and stable hydrodynamics and Israel-Stewart theory for boost-invariant systems with a constant relaxation time. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135525.	4.1	17
13	Relaxation-time approximation with pair production and annihilation processes. Physical Review C, 2020, 102, .	2.9	8
14	Relativistic hydrodynamics for spin-polarized fluids. Progress in Particle and Nuclear Physics, 2019, 108, 103709.	14.4	116
15	Relativistic hydrodynamics with spin. Nuclear Physics A, 2019, 982, 523-526.	1.5	4
16	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
17	Spin polarization evolution in a boost-invariant hydrodynamical background. Physical Review C, 2019, 99, .	2.9	51
18	Convective stability of global thermodynamic equilibrium. Physical Review C, 2019, 99, .	2.9	1

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19	Longitudinal spin polarization in a thermal model. Physical Review C, 2019, 100, .	2.9	54
20	Anisotropic-hydrodynamics approach to a quark-gluon fluid mixture. Physical Review C, 2018, 97, .	2.9	12
21	Coupled kinetic equations for fermions and bosons in the relaxation-time approximation. Physical Review C, 2018, 97, .	2.9	39
22	Relativistic fluid dynamics with spin. Physical Review C, 2018, 97, .	2.9	154
23	New theories of relativistic hydrodynamics in the LHC era. Reports on Progress in Physics, 2018, 81, 046001.	20.1	225
24	Vortex-like solutions and internal structures of covariant ideal magnetohydrodynamics. European Physical Journal A, 2018, 54, 1.	2.5	5
25	Thermodynamic versus kinetic approach to polarization-vorticity coupling. Physical Review C, 2018, 98, .	2.9	80
26	Spin-dependent distribution functions for relativistic hydrodynamics of spin-$\frac{1}{2}$ particles. Physical Review D, 2018, 97, .	4.7	76
27	Perfect-fluid Hydrodynamics with Constant Acceleration Along the Stream Lines and Spin Polarization. Acta Physica Polonica B, 2018, 49, 1409.	0.8	51
28	Fluid Dynamics for Relativistic Spin-polarized Media. Acta Physica Polonica B, Proceedings Supplement, 2018, 11, 507.	0.1	6
29	Transverse-momentum spectra of strange particles produced in Pb+Pb collisions at = 2.76 TeV in the chemical non-equilibrium model. Journal of Physics: Conference Series, 2017, 779, 012054.	0.4	0
30	Thermodynamics and Kinetics of Gribov–Zwanziger Plasma with Temperature-dependent Gribov Parameter. Acta Physica Polonica B, 2017, 48, 125.	0.8	3
31	Relativistic Hydrodynamics of Particles with Spin 1/2. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 1139.	0.1	3
32	Various Approaches to Anisotropic Hydrodynamics. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 555.	0.1	1
33	Bulk and shear viscosities for the Gribov-Zwanziger plasma. EPJ Web of Conferences, 2016, 120, 06003.	0.3	0
34	Strong-coupling effects in a plasma of confining gluons. Nuclear Physics A, 2016, 956, 669-672.	1.5	4
35	Separation of elastic and inelastic processes in the relaxation-time approximation for the collision integral. Physical Review C, 2016, 93, .	2.9	17
36	Gradient expansion for anisotropic hydrodynamics. Physical Review D, 2016, 94, .	4.7	23

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37	Transport coefficients of the Gribov-Zwanziger plasma. Physical Review C, 2016, 94, .	2.9	31
38	Non-boost-invariant dissipative hydrodynamics. Physical Review C, 2016, 94, .	2.9	16
39	Testing different formulations of leading-order anisotropic hydrodynamics. Nuclear Physics A, 2016, 946, 29-48.	1.5	20
40	Bulk Viscosity in a Plasma of Gribov--Zwanziger Gluons. Acta Physica Polonica B, 2016, 47, 1833.	0.8	19
41	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
42	Kinetic Properties of the Gribov--Zwanziger Plasma. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 497.	0.1	0
43	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
44	Relativistic quantum transport coefficients for second-order viscous hydrodynamics. Physical Review C, 2015, 91, .	2.9	48
45	Anisotropic hydrodynamics for a mixture of quark and gluon fluids. Physical Review C, 2015, 92, .	2.9	18
46	Anisotropic hydrodynamics and early stages of heavy-ion collisions. EPJ Web of Conferences, 2015, 90, 08002.	0.3	0
47	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
48	Blast-wave model description of the Hanbury-Brown–Twiss radii in pp collisions at LHC energies. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045001.	3.6	8
49	Exact solution of the (0+1)-dimensional Boltzmann equation for massive Bose–Einstein and Fermi–Dirac gases. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045106.	3.6	20
50	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
51	Simple kinetic-theory tests of dissipative and anisotropic hydrodynamics. EPJ Web of Conferences, 2014, 71, 00045.	0.3	1
52	Bose--Einstein Correlations and Thermal Cluster Formation in High-energy Collisions. Acta Physica Polonica B, 2014, 45, 1883.	0.8	6
53	Basic Phenomenology for Relativistic Heavy Ion Collisions. Acta Physica Polonica B, 2014, 45, 2329.	0.8	12
54	Transverse-momentum spectra of strange particles produced in Pb–+–Pb collisions at$sNN=2.76TeV in the chemical nonequilibrium model. Physical Review C, 2014, 90, .	2.9	31

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55	Kinetic Description of Mixtures of Anisotropic Fluids. Acta Physica Polonica B, 2014, 45, 1103.	0.8	20
56	Leading-order anisotropic hydrodynamics for systems with massive particles. Physical Review C, 2014, 89, .	2.9	36
57	Exact solution of the (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (xmlns:mml="http://www.w3.org/1998/MathML	2.9	65
58	Shear-bulk coupling in nonconformal hydrodynamics. Physical Review C, 2014, 90, .	2.9	51
59	Thermalization of anisotropic quark–gluon plasma produced by decays of color flux tubes. Nuclear Physics A, 2014, 931, 343-347.	1.5	3
60	Explanation of hadron transverse-momentum spectra in heavy-ion 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:mrow><mml within a chemical nonequilibrium statistical hadronization model. Physical Review C, 2014, 90, .	2.9	48
61	Projection method and new formulation of leading-order anisotropic hydrodynamics. Physical Review C, 2014, 89, .	2.9	64
62	Anisotropic hydrodynamics. Nuclear Physics A, 2013, 904-905, 803c-806c.	1.5	6
63	Anisotropic hydrodynamics for rapidly expanding systems. Nuclear Physics A, 2013, 916, 249-259.	1.5	128
64	Anisotropic hydrodynamics and the early-thermalization puzzle. , 2013, , .		1
65	Mixture of Anisotropic Fluids. Acta Physica Polonica B, 2013, 44, 2003.	0.8	20
66	Hydrodynamics of anisotropic quark and gluon fluids. Physical Review C, 2013, 87, .	2.9	32
67	Equilibration of anisotropic quark-gluon plasma produced by decays of color flux tubes. Physical Review D, 2013, 88, .	4.7	29
68	Testing viscous and anisotropic hydrodynamics in an exactly solvable case. Physical Review C, 2013, 88, .	2.9	151
69	Locally anisotropic momentum distributions of hadrons at freeze-out in relativistic heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 025103.	3.6	4
70	Chromoelectric oscillations in a dynamically evolving anisotropic background. Physical Review D, 2012, 86, .	4.7	17
71	Projection method for boost-invariant and cylindrically symmetric dissipative hydrodynamics. Physical Review C, 2012, 85, .	2.9	39
72	Highly anisotropic hydrodynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn mathvariant="bold">3</mml:mn><mml:mo>+</mml:mo><mml:mn mathvariant="bold">1</mml:mn></mml:mrow></mml:math>space-time dimensions. Physical Review C, 2012, 85, .	2.9	80

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73	Single-freeze-out model for ultrarelativistic heavy-ion collisions at $s_{NN}=2.76$ TeV. Physical Review C, 2012, 85, .	2.9	16
74	THERMINATOR 2: THERMal heavy IoN generATOR 2. Computer Physics Communications, 2012, 183, 746-773.	7.5	143
75	Highly anisotropic and strongly dissipative hydrodynamics for early stages of relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	2.9	196
76	Highly anisotropic and strongly dissipative hydrodynamics with transverse expansion. European Physical Journal C, 2011, 71, 1.	3.9	65
77	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
78	Non-boost-invariant motion of dissipative and highly anisotropic fluid. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 015104.	3.6	75
79	Title is missing!. Acta Physica Polonica B, 2011, 42, 115.	0.8	33
80	ADHYDRO - hydrodynamics-like model for highly anisotropic systems. , 2011, , .		0
81	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.	4.1	27
82	Transverse hydrodynamics with sudden hadronization: production of strangeness. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 094023.	3.6	4
83	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
84	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
85	Free-streaming approximation in early dynamics of relativistic heavy-ion collisions. Physical Review C, 2009, 80, .	2.9	53
86	Solution of the RHIC HBT puzzle with Gaussian initial conditions. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064067.	3.6	3
87	Describing transverse dynamics and space-time evolution at RHIC in a hydrodynamic model with statistical hadronization. Nuclear Physics A, 2009, 830, 821c-824c.	1.5	5
88	Early evolution of transversally thermalized partons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 661, 325-329.	4.1	18
89	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
90	Early dynamics of transversally thermalized matter. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104073.	3.6	0

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91	Soft heavy-ion physics from hydrodynamics with statistical hadronization: Predictions for collisions at $\sqrt{S_{NN}} = 5$ ... Physical Review C, 2008, 78, .	2.9	36
92	Uniform Description of Soft Observables in Heavy-Ion Collisions at $\sqrt{s_{NN}}$ ... Physical Review Letters, 2008, 101, 022301.	7.8	100
93	General formulation of transverse hydrodynamics. Physical Review C, 2008, 77, .	2.9	10
94	Event-by-event fluctuations of transverse momentum and multiparticle clusters in relativistic heavy-ion collisions. Brazilian Journal of Physics, 2007, 37, .	1.4	2
95	THERMINATOR: THERMal heavy-IoN generATOR. Computer Physics Communications, 2006, 174, 669-687.	7.5	145
96	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	4.1	21
97	Particle spectra and hydro-inspired models. Nuclear Physics A, 2006, 774, 179-188.	1.5	7
98	Characteristic form of boost-invariant and cylindrically asymmetric hydrodynamic equations. Physical Review C, 2006, 74, .	2.9	14
99	Femtoscopy in hydrodynamics-inspired models with resonances. Physical Review C, 2006, 73, .	2.9	64
100	SHARE: Statistical hadronization with resonances. Computer Physics Communications, 2005, 167, 229-251.	7.5	152
101	Balance Functions in a Thermal Model with Resonances. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 149-157.	0.4	23
102	Production of Resonances in a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 159-163.	0.4	1
103	Strange particle production in a single-freeze-out model. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1087-S1090.	3.6	7
104	Formation of Hubble-like flow in little bangs. Physical Review C, 2005, 71, .	2.9	33
105	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
106	Update of the Hagedorn mass spectrum. Physical Review D, 2004, 70, .	4.7	68
107	Balance Functions from a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 49-52.	0.4	4
108	Thermal description of transverse-momentum spectra at RHIC. Nuclear Physics A, 2003, 715, 875c-878c.	1.5	3

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109	Thermal analysis of production of resonances in relativistic heavy-ion collisions. Physical Review C, 2003, 68, .	2.9	32
110	Thermal model for RHIC, part I: particle ratios and spectra. AIP Conference Proceedings, 2003, , .	0.4	3
111	Thermal model for RHIC, part II: elliptic flow and HBT radii. AIP Conference Proceedings, 2003, , .	0.4	29
112	Description of strange particle production in Au+Au collisions of s_{NN}=130GeV in a single-freeze-out model. Physical Review C, 2002, 65, .	2.9	86
113	Geometric relation between centrality and the impact parameter in relativistic heavy-ion collisions. Physical Review C, 2002, 65, .	2.9	61
114	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
115	$\ddot{I}\hat{a}\dagger\ddot{I}\epsilon\ddot{I}\epsilon$ decay in nuclear medium. Nuclear Physics A, 2001, 696, 870-893.	1.5	4
116	Description of the RHIC $p\hat{a}\check{S}\yen$Spectra in a Thermal Model with Expansion. Physical Review Letters, 2001, 87, 272302.	7.8	168
117	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
118	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
119	Subtracted dispersion relations for in-medium meson correlators in QCD sum rules. Nuclear Physics A, 1999, 651, 397-410.	1.5	9
120	Mean-field transport theory for the two-flavour NJL model. European Physical Journal A, 1998, 2, 77-86.	2.5	5
121	Total $gamma^{star}gamma^{star}$ cross section and the QCD dipole picture. European Physical Journal C, 1998, 2, 683-689.	3.9	15
122	$\ddot{I}\cdot\ddot{I}\permil$ 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
123	Deep inelastic scattering of leptons from nuclear targets and the BFKL Pomeron. Physical Review D, 1997, 55, 6830-6838.	4.7	2
124	Pion condensation during the hadronization of the quark-gluon plasma in ultra-relativistic heavy-ion collisions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1996, 70, 133-137.	1.5	5
125	Chirally Invariant Transport Equations for Quark Matter. Annals of Physics, 1996, 245, 445-463.	2.8	28
126	Melting of the quark condensate in the NJL model with meson loops. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 386, 62-68.	4.1	22

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127	Oscillations of the static meson fields at finite baryon density. Nuclear Physics A, 1996, 611, 409-428.	1.5	5
128	Critical scattering at the chiral phase transition and low-pT enhancement of mesons in ultra-relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 349, 18-22.	4.1	5
129	Large time-scale fluctuations of the quark condensate at high temperature. Physical Review C, 1994, 50, 3069-3078.	2.9	3
130	Spatial dependence of meson correlation functions at high temperature. Zeitschrift FÃ¼r Physik A, 1994, 347, 271-276.	0.9	50
131	Soft photon production in the boost-invariant color-flux tube model. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 61, 171-177.	1.5	8
132	Convective stability of hot matter in ultrarelativistic heavy-ion collisions. Nuclear Physics A, 1992, 540, 659-674.	1.5	4
133	Universal multifractality in multiparticle production. Physical Review D, 1991, 43, 1548-1554.	4.7	29
134	A semi-classical boost-invariant description of pair production in chromoelectric field. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1990, 46, 439-444.	1.5	8
135	Intermittency and the Schwinger tunneling mechanism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 229, 398-401.	4.1	17
136	Oscillations of quark-gluon plasma generated in strong color fields. Nuclear Physics B, 1988, 296, 611-624.	2.5	67
137	Kinetic coefficients for quark-antiquark plasma with quantum treatment of color. Physical Review D, 1987, 36, 2172-2175.	4.7	12