

# Radoslaw Ryblewski

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,531  
citations

159358

30  
h-index

189595

50  
g-index

70  
all docs

70  
docs citations

70  
times ranked

761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly anisotropic and strongly dissipative hydrodynamics for early stages of relativistic heavy-ion collisions. Physical Review C, 2011, 83, .	1.1	196
2	Testing viscous and anisotropic hydrodynamics in an exactly solvable case. Physical Review C, 2013, 88, .	1.1	151
3	Anisotropic hydrodynamics for rapidly expanding systems. Nuclear Physics A, 2013, 916, 249-259.	0.6	128
4	Relativistic hydrodynamics for spin-polarized fluids. Progress in Particle and Nuclear Physics, 2019, 108, 103709.	5.6	116
5	Boost-invariant (2+1)-dimensional anisotropic hydrodynamics. Physical Review C, 2012, 85, .	1.1	108
6	Highly anisotropic hydrodynamics in $\langle \mathbf{v} \cdot \mathbf{v} \rangle$ space-time dimensions. Physical Review C, 2012, 85, .	1.1	80
7	Thermodynamic versus kinetic approach to polarization-vorticity coupling. Physical Review C, 2018, 98, .	1.1	80
8	Relativistic dissipative spin dynamics in the relaxation time approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136096.	1.5	78
9	Spin-dependent distribution functions for relativistic hydrodynamics of spin-1 particles. Physical Review D, 2018, 97, .	1.6	76
10	Non-boost-invariant motion of dissipative and highly anisotropic fluid. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 015104.	1.4	75
11	Transport coefficients for bulk viscous evolution in the relaxation-time approximation. Physical Review C, 2014, 90, .	1.1	69
12	Quasiparticle Anisotropic Hydrodynamics for Ultrarelativistic Heavy-Ion Collisions. Physical Review Letters, 2017, 119, 042301.	2.9	68
13	Highly anisotropic and strongly dissipative hydrodynamics with transverse expansion. European Physical Journal C, 2011, 71, 1.	1.4	65
14	Exact solution of the $T_{ij}$ overlock 10 Tf 50 227 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"	1.1	65
15	Bulk viscous evolution within anisotropic hydrodynamics. Physical Review C, 2014, 90, .	1.1	65
16	Bottomonia suppression in 2.76 TeV Pb-Pb collisions. Physical Review C, 2015, 92, .	1.1	64
17	Dissipative spin dynamics in relativistic matter. Physical Review D, 2021, 103, .	1.6	55
18	Longitudinal spin polarization in a thermal model. Physical Review C, 2019, 100, .	1.1	54

#	ARTICLE	IF	CITATIONS
19	Shear-bulk coupling in nonconformal hydrodynamics. <i>Physical Review C</i> , 2014, 90, .	1.1	51
20	Spin polarization evolution in a boost-invariant hydrodynamical background. <i>Physical Review C</i> , 2019, 99, .	1.1	51
21	Anisotropic hydrodynamics for conformal Gubser flow. <i>Physical Review D</i> , 2015, 91, .	1.6	50
22	Relativistic quantum transport coefficients for second-order viscous hydrodynamics. <i>Physical Review C</i> , 2015, 91, .	1.1	48
23	Anisotropic hydrodynamic modeling of 2.76 TeV Pb-Pb collisions. <i>Physical Review C</i> , 2017, 96, .	1.1	42
24	Relativistic third-order viscous corrections to the entropy four-current from kinetic theory. <i>Physical Review C</i> , 2015, 91, .	1.1	40
25	Projection method for boost-invariant and cylindrically symmetric dissipative hydrodynamics. <i>Physical Review C</i> , 2012, 85, .	1.1	39
26	Coupled kinetic equations for fermions and bosons in the relaxation-time approximation. <i>Physical Review C</i> , 2018, 97, .	1.1	39
27	Leading-order anisotropic hydrodynamics for systems with massive particles. <i>Physical Review C</i> , 2014, 89, .	1.1	36
28	Spin polarization dynamics in the Gubser-expanding background. <i>Physical Review D</i> , 2021, 103, .	1.6	34
29	Hydrodynamics of anisotropic quark and gluon fluids. <i>Physical Review C</i> , 2013, 87, .	1.1	32
30	Transport coefficients of the Gribov-Zwanziger plasma. <i>Physical Review C</i> , 2016, 94, .	1.1	31
31	Equilibration of anisotropic quark-gluon plasma produced by decays of color flux tubes. <i>Physical Review D</i> , 2013, 88, .	1.6	29
32	Leading-order anisotropic hydrodynamics for central collisions. <i>Physical Review C</i> , 2015, 92, .	1.1	28
33	Quasiparticle second-order viscous hydrodynamics from kinetic theory. <i>Physical Review D</i> , 2017, 95, .	1.6	28
34	Anisotropic hydrodynamics for ultra-relativistic heavy-ion collisions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 093101.	1.4	24
35	Gradient expansion for anisotropic hydrodynamics. <i>Physical Review D</i> , 2016, 94, .	1.6	23
36	Testing different formulations of leading-order anisotropic hydrodynamics. <i>Nuclear Physics A</i> , 2016, 946, 29-48.	0.6	20

#	ARTICLE	IF	CITATIONS
37	Dilepton production from the quark-gluon plasma using anisotropic dissipative hydrodynamics. <i>Physical Review D</i> , 2015, 92, .	1.6	19
38	Anisotropic hydrodynamics for a mixture of quark and gluon fluids. <i>Physical Review C</i> , 2015, 92, .	1.1	18
39	Chromoelectric oscillations in a dynamically evolving anisotropic background. <i>Physical Review D</i> , 2012, 86, .	1.6	17
40	Separation of elastic and inelastic processes in the relaxation-time approximation for the collision integral. <i>Physical Review C</i> , 2016, 93, .	1.1	17
41	Statistical hadronization model for heavy-ion collisions in the few-GeV energy regime. <i>Physical Review C</i> , 2020, 102, .	1.1	17
42	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.	1.5	17
43	Anisotropic hydrodynamics for conformal Gubser flow. <i>Nuclear Physics A</i> , 2016, 956, 268-271.	0.6	16
44	Photon production from a nonequilibrium quark-gluon plasma. <i>Physical Review D</i> , 2016, 93, .	1.6	16
45	Non-boost-invariant dissipative hydrodynamics. <i>Physical Review C</i> , 2016, 94, .	1.1	16
46	Spin polarization dynamics in the non-boost-invariant background. <i>Physical Review D</i> , 2022, 105, .	1.6	16
47	Early anisotropic hydrodynamics and thermalization and Hanbury-Brown-Twiss puzzles in the BNL Relativistic Heavy Ion Collider (RHIC). <i>Physical Review C</i> , 2010, 82, .	1.1	13
48	Anisotropic-hydrodynamics approach to a quark-gluon fluid mixture. <i>Physical Review C</i> , 2018, 97, .	1.1	12
49	Effect of thermal shear on longitudinal spin polarization in a thermal model. <i>Physical Review C</i> , 2022, 105, .	1.1	12
50	Pseudogauge dependence of quantum fluctuations of the energy in a hot relativistic gas of fermions. <i>Physical Review D</i> , 2021, 103, .	1.6	11
51	General formulation of transverse hydrodynamics. <i>Physical Review C</i> , 2008, 77, .	1.1	10
52	Correspondence between Israel-Stewart and first-order causal and stable hydrodynamics for the boost-invariant massive case with zero baryon density. <i>Physical Review D</i> , 2020, 102, .	1.6	10
53	Spin polarization dynamics in the Bjorken-expanding resistive MHD background. <i>Physical Review D</i> , 2021, 103, .	1.6	10
54	Bottomonium suppression in heavy-ion collisions. <i>Nuclear Physics A</i> , 2017, 967, 604-607.	0.6	9

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55	Relaxation-time approximation with pair production and annihilation processes. <i>Physical Review C</i> , 2020, 102, .	1.1	8
56	Vortex-like solutions and internal structures of covariant ideal magnetohydrodynamics. <i>European Physical Journal A</i> , 2018, 54, 1.	1.0	5
57	Anisotropic hydrodynamic modeling of heavy-ion collisions at LHC and RHIC. <i>Nuclear Physics A</i> , 2019, 982, 423-426.	0.6	5
58	Strong-coupling effects in a plasma of confining gluons. <i>Nuclear Physics A</i> , 2016, 956, 669-672.	0.6	4
59	Thermalization of anisotropic quark-gluon plasma produced by decays of color flux tubes. <i>Nuclear Physics A</i> , 2014, 931, 343-347.	0.6	3
60	Transport coefficients in second-order non-conformal viscous hydrodynamics. <i>Journal of Physics: Conference Series</i> , 2015, 612, 012058.	0.3	3
61	Phenomenological predictions of 3+1d anisotropic hydrodynamics. <i>Journal of Physics: Conference Series</i> , 2017, 832, 012054.	0.3	3
62	Correspondence between Israel-Stewart and first-order causal and stable hydrodynamics for Bjorken-expanding baryon-rich systems with vanishing particle masses. <i>Physical Review D</i> , 2021, 103, .	1.6	3
63	Transverse hydrodynamics and the early-thermalization problem at RHIC. <i>Journal of Physics: Conference Series</i> , 2011, 270, 012024.	0.3	1
64	Anisotropic hydrodynamics and the early-thermalization puzzle. , 2013, , .		1
65	Convective stability of global thermodynamic equilibrium. <i>Physical Review C</i> , 2019, 99, .	1.1	1
66	Transport phenomena in a plasma of confining gluons. <i>EPJ Web of Conferences</i> , 2016, 126, 02028.	0.1	0
67	Thermalization of parton spectra in the colour-flux-tube model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 095102.	1.4	0
68	Photon and dilepton production from a non-equilibrium quark-gluon plasma. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 276-278, 309-312.	0.2	0
69	Bottomonia suppression in an anisotropic quark-gluon plasma. <i>EPJ Web of Conferences</i> , 2017, 137, 07019.	0.1	0
70	Interpretation of $\Lambda$ hyperon spin polarization measurements. <i>EPJ Web of Conferences</i> , 2022, 259, 11011.	0.1	0