

Michael Strickland

List of Publications by Year in descending order

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178
docs citations

178
times ranked

4850
citing authors

#	ARTICLE	IF	CITATIONS
1	$N = 4$ supersymmetric Yang-Mills thermodynamics from effective field theory. Physical Review D, 2022, 105, .	1.6	3
2	The relativistic Schrödinger equation through FFTW 3: An extension of quantumfddt. Computer Physics Communications, 2022, 272, 108250.	3.0	3
3	QTRAJ 1.0: A Lindblad equation solver for heavy-quarkonium dynamics. Computer Physics Communications, 2022, 273, 108266.	3.0	12
4	Bottomonium suppression and flow in heavy-ion collisions. EPJ Web of Conferences, 2022, 259, 04001.	0.1	2
5	Long and short distance behavior of the imaginary part of the heavy-quark potential. EPJ Web of Conferences, 2022, 258, 04008.	0.1	0
6	Resummed Relativistic Dissipative Hydrodynamics. Symmetry, 2022, 14, 329.	1.1	8
7	Scheme dependence of two-loop hard thermal loop perturbation theory resummed $SYM = 4$ supersymmetric Yang-Mills thermodynamics. Physical Review D, 2022, 105, .	1.6	0
8	Bottomonium suppression and elliptic flow using Heavy Quarkonium Quantum Dynamics. Journal of High Energy Physics, 2021, 2021, 1.	1.6	13
9	Next-to-next-to leading-order hard-thermal-loop perturbation-theory predictions for the curvature of the QCD phase transition line. Physical Review C, 2021, 103, .	1.1	9
10	Bottomonium suppression in an open quantum system using the quantum trajectories method. Journal of High Energy Physics, 2021, 2021, 1.	1.6	49
11	Fireball tomography from bottomonia elliptic flow in relativistic heavy-ion collisions. European Physical Journal C, 2021, 81, 1.	1.4	4
12	$N = 4$ supersymmetric Yang-Mills thermodynamics to order $\hat{\Lambda}^2$. Journal of High Energy Physics, 2021, 2021, 1.	1.6	4
13	The imaginary part of the heavy-quark potential from real-time Yang-Mills dynamics. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
14	Effective Debye screening mass in an anisotropic quark gluon plasma. Physical Review D, 2021, 104, .	1.6	5
15	Bulk observables at 5.02 TeV using quasiparticle anisotropic hydrodynamics. European Physical Journal C, 2021, 81, 1.	1.4	16
16	Bottomonium production in heavy-ion collisions using quantum trajectories: Differential observables and momentum anisotropy. Physical Review D, 2021, 104, .	1.6	29
17	Nonequilibrium Attractor in High-Temperature QCD Plasmas. Physical Review Letters, 2020, 125, 122302.	2.9	43
18	Perturbative thermal QCD: Formalism and applications. Physics Reports, 2020, 880, 1-73.	10.3	80

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19	Bottomonium suppression and elliptic flow from real-time quantum evolution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135949.	1.5	26
20	Improved anisotropic hydrodynamics ansatz. Physical Review C, 2020, 102, .	1.1	7
21	Pion interferometry at 200 GeV using anisotropic hydrodynamics. Physical Review C, 2020, 102, .	1.1	8
22	Pseudothermization of the quark-gluon plasma. Journal of Physics: Conference Series, 2020, 1602, 012018.	0.3	1
23	Photon production and elliptic flow from a momentum-anisotropic quark-gluon plasma. Physical Review D, 2020, 102, .	1.6	16
24	Two-loop HTL-resummed thermodynamics for $N = 4$ supersymmetric Yang-Mills theory. Journal of High Energy Physics, 2020, 2020, 1.	1.6	7
25	Including off-diagonal anisotropies in anisotropic hydrodynamics. Physical Review C, 2019, 100, .	1.1	9
26	Heavy quarkonium suppression beyond the adiabatic limit. Physical Review D, 2019, 100, .	1.6	12
27	Bottomonium suppression at RHIC and LHC. Nuclear Physics A, 2019, 982, 727-730.	0.6	7
28	Small system studies: A theory overview. Nuclear Physics A, 2019, 982, 92-98.	0.6	14
29	Anisotropic hydrodynamic modeling of heavy-ion collisions at LHC and RHIC. Nuclear Physics A, 2019, 982, 423-426.	0.6	5
30	Anisotropic hydrodynamic modeling of 200 GeV Au-Au collisions. Physical Review C, 2019, 99, .	1.1	22
31	Anisotropic Hydrodynamics for Au-Au Collisions at 200 GeV. Proceedings (mdpi), 2019, 10, .	0.2	1
32	Dilepton production and elliptic flow from an anisotropic quark-gluon plasma. Physical Review D, 2019, 99, .	1.6	16
33	Anisotropic hydrodynamics with number-conserving kernels. Physical Review C, 2019, 99, .	1.1	7
34	Exact solution for the non-equilibrium attractor in number-conserving relaxation time approximation. Journal of High Energy Physics, 2019, 2019, 1.	1.6	24
35	Anisotropic escape mechanism and elliptic flow of bottomonia. Physical Review C, 2019, 100, .	1.1	18
36	Anisotropic nonequilibrium hydrodynamic attractor. Physical Review D, 2018, 97, .	1.6	100

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55	Phenomenological predictions of 3+1d anisotropic hydrodynamics. Journal of Physics: Conference Series, 2017, 832, 012054.	0.3	3
56	Predictions for Bottomonia Suppression in 5.023 TeV Pb-Pb Collisions. Universe, 2016, 2, 16.	0.9	58
57	Equation of state for QCD at finite temperature and density. Resummation versus lattice data. AIP Conference Proceedings, 2016, , .	0.3	3
58	Quark self-energy in an ellipsoidally anisotropic quark-gluon plasma. Physical Review D, 2016, 94, .	1.6	9
59	Anisotropic hydrodynamics for conformal Gubser flow. Nuclear Physics A, 2016, 956, 268-271.	0.6	16
60	Photon and dilepton production from a non-equilibrium quark-gluon plasma. Nuclear and Particle Physics Proceedings, 2016, 276-278, 309-312.	0.2	0
61	Exact solutions of the Boltzmann equation and optimized hydrodynamic approaches for relativistic heavy-ion collisions. Nuclear and Particle Physics Proceedings, 2016, 276-278, 193-196.	0.2	16
62	Three-loop hard-thermal-loop perturbation theory thermodynamics at finite temperature and finite baryonic and isospin chemical potential. Physical Review D, 2016, 93, .	1.6	44
63	Dilepton rate and quark number susceptibility with the Gribov action. Physical Review D, 2016, 93, .	1.6	24
64	Photon production from a nonequilibrium quark-gluon plasma. Physical Review D, 2016, 93, .	1.6	16
65	Non-boost-invariant dissipative hydrodynamics. Physical Review C, 2016, 94, .	1.1	16
66	Heavy-flavour and quarkonium production in the LHC era: from proton-proton to heavy-ion collisions. European Physical Journal C, 2016, 76, 107.	1.4	400
67	Three-Loop HTLpt Thermodynamics at Finite Temperature and Chemical Potential. Springer Proceedings in Physics, 2016, , 17-21.	0.1	3
68	Testing different formulations of leading-order anisotropic hydrodynamics. Nuclear Physics A, 2016, 946, 29-48.	0.6	20
69	Relativistic quantum transport coefficients for second-order viscous hydrodynamics. Physical Review C, 2015, 91, .	1.1	48
70	Quasiparticle equation of state for anisotropic hydrodynamics. Physical Review C, 2015, 92, .	1.1	44
71	Dilepton production from the quark-gluon plasma using anisotropic dissipative hydrodynamics. Physical Review D, 2015, 92, .	1.6	19
72	Leading-order anisotropic hydrodynamics for central collisions. Physical Review C, 2015, 92, .	1.1	28

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73	Bottomonia suppression in 2.76 TeV Pb-Pb collisions. Physical Review C, 2015, 92, .	1.1	64
74	Thermalization and isotropization in heavy-ion collisions. Pramana - Journal of Physics, 2015, 84, 671-684.	0.9	48
75	Anisotropic hydrodynamics for conformal Gubser flow. Physical Review D, 2015, 91, .	1.6	50
76	The influence of strong magnetic fields on proto-quark stars. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 015203.	1.4	60
77	Studying the validity of relativistic hydrodynamics with a new exact solution of the Boltzmann equation. Physical Review D, 2014, 90, .	1.6	91
78	Second-order anisotropic hydrodynamics. Physical Review C, 2014, 90, .	1.4	54
79	Anisotropic Hydrodynamics: Three Lectures. Acta Physica Polonica B, 2014, 45, 2355.	0.3	126
80	Charm production in a strong magnetic field. , 2014, , .		0
81	Three-loop pressure and susceptibility at finite temperature and density from hard-thermal-loop perturbation theory. Physical Review D, 2014, 89, .	1.6	57
82	Leading-order anisotropic hydrodynamics for systems with massive particles. Physical Review C, 2014, 89, .	1.1	36
83	Exact solution of the Boltzmann equation for a system with anisotropic hydrodynamics. Physical Review C, 2014, 90, .	1.1	65
84	Bulk viscous evolution within anisotropic hydrodynamics. Physical Review C, 2014, 90, .	1.1	65
85	Transport coefficients for bulk viscous evolution in the relaxation-time approximation. Physical Review C, 2014, 90, .	1.1	69
86	Shear-bulk coupling in nonconformal hydrodynamics. Physical Review C, 2014, 90, .	1.1	51
87	Three loop HTL perturbation theory at finite temperature and chemical potential. Nuclear Physics A, 2014, 931, 841-845.	0.6	7
88	Viscous hydrodynamics for strongly anisotropic expansion. Nuclear Physics A, 2014, 931, 920-925.	0.6	9
89	Anisotropic hydrodynamics: Motivation and methodology. Nuclear Physics A, 2014, 926, 92-101.	0.6	22
90	New Exact Solution of the Relativistic Boltzmann Equation and its Hydrodynamic Limit. Physical Review Letters, 2014, 113, 202301.	2.9	107

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91	Three-loop HTLpt thermodynamics at finite temperature and chemical potential. Journal of High Energy Physics, 2014, 2014, 1.	1.6	168
92	Quark number susceptibilities from two-loop hard thermal loop perturbation theory. Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
93	Charmonia and bottomonia in a magnetic field. Physical Review D, 2013, 88, .	1.6	86
94	Equation of state of hot and dense QCD: resummed perturbation theory confronts lattice data. Journal of High Energy Physics, 2013, 2013, 1.	1.6	63
95	Anisotropic hydrodynamics. Nuclear Physics A, 2013, 904-905, 803c-806c.	0.6	6
96	Anisotropic hydrodynamics for rapidly expanding systems. Nuclear Physics A, 2013, 916, 249-259.	0.6	128
97	Thermal bottomonium suppression. AIP Conference Proceedings, 2013, , .	0.3	10
98	Highly anisotropic dissipative hydrodynamics. AIP Conference Proceedings, 2013, , .	0.3	2
99	Heavy quarkonium production in a strong magnetic field. Physical Review D, 2013, 88, .	1.6	61
100	Hydrodynamics of anisotropic quark and gluon fluids. Physical Review C, 2013, 87, .	1.1	32
101	Two-loop hard thermal loop pressure at finite temperature and chemical potential. Physical Review D, 2013, 87, .	1.6	47
102	Instabilities of an anisotropically expanding non-Abelian plasma:3D+3Vdiscretized hard-loop simulations. Physical Review D, 2013, 87, .	1.6	43
103	Testing viscous and anisotropic hydrodynamics in an exactly solvable case. Physical Review C, 2013, 88, .	1.1	151
104	QUARKONIA IN THE QUARK GLUON PLASMA. International Journal of Modern Physics A, 2013, 28, 1340012.	0.5	110
105	Bottomonia in the Quark Gluon Plasma. Journal of Physics: Conference Series, 2013, 432, 012015.	0.3	3
106	The Chromo-Weibel Instability in an Expanding Background. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 393.	0.0	1
107	Chromoelectric oscillations in a dynamically evolving anisotropic background. Physical Review D, 2012, 86, .	1.6	17
108	Boost-invariant (2+1)-dimensional anisotropic hydrodynamics. Physical Review C, 2012, 85, .	1.1	108

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109	Bulk properties of a Fermi gas in a magnetic field. <i>Physical Review D</i> , 2012, 86, .	1.6	94
110	Thermal bottomonium suppression at RHIC and LHC. <i>Nuclear Physics A</i> , 2012, 879, 25-58.	0.6	156
111	Non-Abelian plasma instabilities: SU(3) versus SU(2). <i>Physical Review D</i> , 2011, 84, .	1.6	34
112	Three-loop HTL QCD thermodynamics. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	99
113	Non-boost-invariant anisotropic dynamics. <i>Nuclear Physics A</i> , 2011, 856, 68-87.	0.6	96
114	NNLO hard-thermal-loop thermodynamics for QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 468-472.	1.5	73
115	Quarkonium states in a complex-valued potential. <i>Physical Review D</i> , 2011, 83, .	1.6	75
116	QCD trace anomaly. <i>Physical Review D</i> , 2011, 84, .	1.6	26
117	Publisher's Note: QCD trace anomaly [Phys. Rev. D PRVDAQ1550-799884, 087703 (2011)10.1103/PhysRevD.84.087703]. <i>Physical Review D</i> , 2011, 84, .	1.6	0
118	Thermal χ production in heavy ion collisions. <i>Physical Review D</i> , 2011, 84, .	2.9	102
119	Hard-Thermal-Loop QCD Thermodynamics. <i>Progress of Theoretical Physics Supplement</i> , 2011, 187, 106-114.	0.2	7
120	Plasma Instabilities in Heavy Ion Collisions. , 2011, , .		0
121	Three-loop HTL gluon thermodynamics at intermediate coupling. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	1.6	65
122	A parallel algorithm for solving the 3d Schrödinger equation. <i>Journal of Computational Physics</i> , 2010, 229, 6015-6026.	1.9	28
123	Dissipative dynamics of highly anisotropic systems. <i>Nuclear Physics A</i> , 2010, 848, 183-197.	0.6	264
124	Hard-thermal-loop QED thermodynamics. <i>Chinese Physics C</i> , 2010, 34, 1527-1529.	1.5	2
125	Gluon Thermodynamics at Intermediate Coupling. <i>Physical Review Letters</i> , 2010, 104, 122003.	2.9	73
126	Matching pre-equilibrium dynamics and viscous hydrodynamics. <i>Physical Review C</i> , 2010, 81, .	1.1	23

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127	Jet energy loss in the quark-gluon plasma by stream instabilities. Physical Review D, 2010, 81, .	1.6	4
128	Transverse momentum diffusion and collisional jet energy loss in non-Abelian plasmas. Physical Review C, 2009, 79, .	1.1	18
129	Constraining relativistic viscous hydrodynamical evolution. Physical Review C, 2009, 79, .	1.1	53
130	Constraining the onset of viscous hydrodynamics. Nuclear Physics A, 2009, 830, 615c-616c.	0.6	1
131	Suppression of forward dilepton production from an anisotropic quark-gluon plasma. European Physical Journal C, 2009, 61, 905-913.	1.4	29
132	Three-loop hard-thermal-loop free energy for QED. Physical Review D, 2009, 80, .	1.6	14
133	Quarkonium states in an anisotropic QCD plasma. Physical Review D, 2009, 79, .	1.6	69
134	Imaginary part of the static gluon propagator in an anisotropic (viscous) QCD plasma. Physical Review D, 2009, 79, .	1.6	86
135	The heavy-quark potential in an anisotropic plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 37-42.	1.5	109
136	QGP collective effects and jet transport. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104109.	1.4	10
137	Dilepton production as a measure of QGP thermalization time. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104162.	1.4	4
138	Pre-equilibrium dilepton production from an anisotropic quark-gluon plasma. Physical Review C, 2008, 78, .	1.1	61
139	Instabilities of an anisotropically expanding non-Abelian plasma: $D > 3V$ discretized hard-loop simulations. Physical Review D, 2008, 78, .	1.6	66
140	Jet broadening in unstable non-Abelian plasmas. Physical Review C, 2008, 78, .	1.1	45
141	Measuring Quark-Gluon-Plasma Thermalization Time with Dileptons. Physical Review Letters, 2008, 100, 102301.	2.9	48
142	Ultraviolet avalanche in anisotropic non-Abelian plasmas. Physical Review D, 2007, 75, .	1.6	73
143	Thermalization and the chromo-Weibel instability. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S429-S435.	1.4	36
144	Photon production from an anisotropic quark-gluon plasma. Physical Review D, 2007, 76, .	1.6	76

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145	Thermalization and plasma instabilities. Nuclear Physics A, 2007, 785, 50-57.	0.6	4
146	The chromo-weibel instability. Brazilian Journal of Physics, 2007, 37, 762-766.	0.7	9
147	Model of the effect of collisions on QCD plasma instabilities. Physical Review D, 2006, 73, .	1.6	72
148	Fermionic collective modes of an anisotropic quark-gluon plasma. Physical Review D, 2006, 74, .	1.6	36
149	Hard-loop dynamics of non-abelian plasma instabilities. Nuclear Physics A, 2006, 774, 779-782.	0.6	1
150	Visualizing color plasma instabilities. European Physical Journal A, 2006, 29, 59-63.	1.0	4
151	Resummation in hot field theories. Annals of Physics, 2005, 317, 281-353.	1.0	120
152	Dynamics of quark-gluon-plasma instabilities in discretized hard-loop approximation. Journal of High Energy Physics, 2005, 2005, 041-041.	1.6	105
153	Hard-Loop Dynamics of Non-Abelian Plasma Instabilities. Physical Review Letters, 2005, 94, 102303.	2.9	171
154	Collisional energy loss of a heavy quark in an anisotropic quark-gluon plasma. Physical Review D, 2005, 71, .	1.6	48
155	Three-loop $\hat{\Pi}$ -derivable approximation in QED. Physical Review D, 2005, 71, .	1.6	21
156	PROGRESS IN ANISOTROPIC PLASMA PHYSICS. , 2005, , .		0
157	Hard-loop effective action for anisotropic plasmas. Physical Review D, 2004, 70, .	1.6	100
158	Energy loss of a heavy fermion in an anisotropic QED plasma. Physical Review D, 2004, 69, .	1.6	41
159	Collective modes of an anisotropic quark-gluon plasma: II. Physical Review D, 2004, 70, .	1.6	133
160	Two-loop hard-thermal-loop thermodynamics with quarks. Physical Review D, 2004, 70, .	1.6	51
161	Collective modes of an anisotropic quark-gluon plasma. Physical Review D, 2003, 68, .	1.6	359
162	Equation of state for dense QCD and quark stars. Physical Review D, 2002, 66, .	1.6	37

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163	Hard-thermal-loop perturbation theory to two loops. <i>Physical Review D</i> , 2002, 66, .	1.6	114
164	Reorganizing Finite Temperature Field Theory: Part I.: Scalar Field Theory. <i>International Journal of Modern Physics A</i> , 2001, 16, 1277-1280.	0.5	2
165	Mass expansions of screened perturbation theory. <i>Physical Review D</i> , 2001, 64, .	1.6	42
166	Screened perturbation theory to three loops. <i>Physical Review D</i> , 2001, 63, .	1.6	74
167	Massive basketball diagram for a thermal scalar field theory. <i>Physical Review D</i> , 2000, 62, .	1.6	29
168	Hard-thermal-loop resummation of the free energy of a quark-gluon plasma. <i>Physical Review D</i> , 2000, 61, .	1.6	80
169	Optimization of renormalization group flow. <i>Nuclear Physics B</i> , 2000, 567, 493-514.	0.9	55
170	Hard-Thermal-Loop Resummation of the Free Energy of a Hot Gluon Plasma. <i>Physical Review Letters</i> , 1999, 83, 2139-2142.	2.9	179
171	Hard-thermal-loop resummation of the thermodynamics of a hot gluon plasma. <i>Physical Review D</i> , 1999, 61, .	1.6	94
172	Application of renormalization-group techniques to a homogeneous Bose gas at finite temperature. <i>Physical Review A</i> , 1999, 60, 1442-1450.	1.0	36
173	Consistency of blocking transformations in the finite-temperature renormalization group. <i>Nuclear Physics B</i> , 1998, 532, 753-782.	0.9	10
174	Dimensional crossover and effective exponents. <i>Nuclear Physics B</i> , 1997, 497, 611-638.	0.9	28
175	Renormalization group approach to field theory at finite temperature. <i>Physical Review D</i> , 1995, 52, 3653-3671.	1.6	32
176	Thermal photons and dileptons from non-equilibrium quark-gluon plasma. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 331, 245-250.	1.5	78