

Michal P Heller

List of Publications by Year in descending order

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46
papers

2,981
citations

186265

28
h-index

223800

46
g-index

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all docs

46
docs citations

46
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamic Gradient Expansion Diverges beyond Bjorken Flow. <i>Physical Review Letters</i> , 2022, 128, 122302.	7.8	10
2	Entanglement and complexity of purification in $(1+1)$ -dimensional free conformal field theories. <i>Physical Review Research</i> , 2021, 3, .	3.6	22
3	Transseries for causal diffusive systems. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
4	Spacetime as a quantum circuit. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	16
5	Convergence of hydrodynamic modes: insights from kinetic theory and holography. <i>SciPost Physics</i> , 2021, 10, .	4.9	18
6	QCD thermalization: <i>Ab initio</i> approaches and interdisciplinary connections. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	89
7	Hydrodynamic gradient expansion in linear response theory. <i>Physical Review D</i> , 2021, 104, .	4.7	20
8	Long Distance Entanglement of Purification and Reflected Entropy in Conformal Field Theory. <i>Physical Review Letters</i> , 2021, 127, 141604.	7.8	19
9	Hydrodynamic Attractors in Phase Space. <i>Physical Review Letters</i> , 2020, 125, 132301.	7.8	18
10	Lessons for quantum cosmology from anti-de Sitter black holes. <i>Physical Review D</i> , 2020, 102, .	4.7	17
11	Conformal field theory complexity from Euler-Arnold equations. <i>Journal of High Energy Physics</i> , 2020, 2020, 91.	4.7	35
12	From spin chains to real-time thermal field theory using tensor networks. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
13	Geometry of complexity in conformal field theory. <i>Physical Review Research</i> , 2020, 2, .	3.6	46
14	Path Integral Optimization as Circuit Complexity. <i>Physical Review Letters</i> , 2019, 123, 011601.	7.8	62
15	Holographic Schwinger-Keldysh effective field theories. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	40
16	Complexity as a Novel Probe of Quantum Quenches: Universal Scalings and Purifications. <i>Physical Review Letters</i> , 2019, 122, 081601.	7.8	81
17	The Logic of God. <i>Philosophical Education</i> , 2019, 68, 227-244.	0.0	4
18	Complexity and entanglement for thermofield double states. <i>SciPost Physics</i> , 2019, 6, .	4.9	142

#	ARTICLE	IF	CITATIONS
19	New theories of relativistic hydrodynamics in the LHC era. Reports on Progress in Physics, 2018, 81, 046001.	20.1	225
20	Toward a Definition of Complexity for Quantum Field Theory States. Physical Review Letters, 2018, 120, 121602.	7.8	260
21	How does relativistic kinetic theory remember about initial conditions?. Physical Review D, 2018, 98, .	4.7	40
22	Hydrodynamization in kinetic theory: Transient modes and the gradient expansion. Physical Review D, 2018, 97, .	4.7	96
23	Entanglement, holography and causal diamonds. Journal of High Energy Physics, 2016, 2016, 1.	4.7	99
24	Entropy production, hydrodynamics, and resurgence in the primordial quark-gluon plasma from holography. Physical Review D, 2016, 94, .	4.7	63
25	Holographic de Sitter Geometry from Entanglement in Conformal Field Theory. Physical Review Letters, 2016, 116, 061602.	7.8	34
26	Equilibration Rates in a Strongly Coupled Nonconformal Quark-Gluon Plasma. Physical Review Letters, 2015, 114, 251601.	7.8	56
27	Hydrodynamics Beyond the Gradient Expansion: Resurgence and Resummation. Physical Review Letters, 2015, 115, 072501.	7.8	223
28	Effective actions for relativistic fluids from holography. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
29	Testing the membrane paradigm with holography. Physical Review D, 2015, 91, .	4.7	1
30	Bulk curves from boundary data in holography. Physical Review D, 2014, 89, .	4.7	83
31	Longitudinal Coherence in a Holographic Model of Asymmetric Collisions. Physical Review Letters, 2014, 112, 221602.	7.8	50
32	Coupling Hydrodynamics to Nonequilibrium Degrees of Freedom in Strongly Interacting Quark-Gluon Plasma. Physical Review Letters, 2014, 113, 261601.	7.8	72
33	Holographic isotropization linearized. Journal of High Energy Physics, 2013, 2013, 1.	4.7	63
34	Hydrodynamic Gradient Expansion in Gauge Theory Plasmas. Physical Review Letters, 2013, 110, 211602.	7.8	177
35	Towards a holographic realization of the quarkyonic phase. Physical Review D, 2013, 87, .	4.7	19
36	From Full Stopping to Transparency in a Holographic Model of Heavy Ion Collisions. Physical Review Letters, 2013, 111, 181601.	7.8	133

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37	Numerical relativity approach to the initial value problem in asymptotically anti-de Sitter spacetime for plasma thermalization: An ADM formulation. <i>Physical Review D</i> , 2012, 85, .	4.7	59
38	Strong Coupling Isotropization of Non-Abelian Plasmas Simplified. <i>Physical Review Letters</i> , 2012, 108, 191601.	7.8	104
39	Characteristics of Thermalization of Boost-Invariant Plasma from Holography. <i>Physical Review Letters</i> , 2012, 108, 201602.	7.8	243
40	Apparent horizon in fluid-gravity duality. <i>Physical Review D</i> , 2011, 83, .	4.7	12
41	Black brane entropy and hydrodynamics. <i>Physical Review D</i> , 2011, 83, .	4.7	12
42	Consistent Holographic Description of Boost-Invariant Plasma. <i>Physical Review Letters</i> , 2009, 102, 041601.	7.8	28
43	sQGP as hCFT. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 680, 521-525.	4.1	12
44	Black brane entropy and hydrodynamics: The boost-invariant case. <i>Physical Review D</i> , 2009, 80, .	4.7	22
45	Boost-invariant early time dynamics from AdS/CFT. <i>Journal of High Energy Physics</i> , 2009, 2009, 043-043.	4.7	66
46	Supergravity description of boost invariant conformal plasma at strong coupling. <i>Physical Review D</i> , 2008, 77, .	4.7	40