

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

46
all docs

46
docs citations

46
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Definition of Complexity for Quantum Field Theory States. Physical Review Letters, 2018, 120, 121602.	7.8	260
2	Characteristics of Thermalization of Boost-Invariant Plasma from Holography. Physical Review Letters, 2012, 108, 201602.	7.8	243
3	New theories of relativistic hydrodynamics in the LHC era. Reports on Progress in Physics, 2018, 81, 046001.	20.1	225
4	Hydrodynamics Beyond the Gradient Expansion: Resurgence and Resummation. Physical Review Letters, 2015, 115, 072501.	7.8	223
5	Hydrodynamic Gradient Expansion in Gauge Theory Plasmas. Physical Review Letters, 2013, 110, 211602.	7.8	177
6	Complexity and entanglement for thermofield double states. SciPost Physics, 2019, 6, .	4.9	142
7	From Full Stopping to Transparency in a Holographic Model of Heavy Ion Collisions. Physical Review Letters, 2013, 111, 181601.	7.8	133
8	Strong Coupling Isotropization of Non-Abelian Plasmas Simplified. Physical Review Letters, 2012, 108, 191601.	7.8	104
9	Entanglement, holography and causal diamonds. Journal of High Energy Physics, 2016, 2016, 1.	4.7	99
10	Hydrodynamization in kinetic theory: Transient modes and the gradient expansion. Physical Review D, 2018, 97, .	4.7	96
11	QCD thermalization: <i>Ab initio</i> approaches and interdisciplinary connections. Reviews of Modern Physics, 2021, 93, .	45.6	89
12	Bulk curves from boundary data in holography. Physical Review D, 2014, 89, .	4.7	83
13	Complexity as a Novel Probe of Quantum Quenches: Universal Scalings and Purifications. Physical Review Letters, 2019, 122, 081601.	7.8	81
14	Coupling Hydrodynamics to Nonequilibrium Degrees of Freedom in Strongly Interacting Quark-Gluon Plasma. Physical Review Letters, 2014, 113, 261601.	7.8	72
15	Boost-invariant early time dynamics from AdS/CFT. Journal of High Energy Physics, 2009, 2009, 043-043.	4.7	66
16	Holographic isotropization linearized. Journal of High Energy Physics, 2013, 2013, 1.	4.7	63
17	Entropy production, hydrodynamics, and resurgence in the primordial quark-gluon plasma from holography. Physical Review D, 2016, 94, .	4.7	63
18	Path Integral Optimization as Circuit Complexity. Physical Review Letters, 2019, 123, 011601.	7.8	62

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19	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
20	Equilibration Rates in a Strongly Coupled Nonconformal Quark-Gluon Plasma. <i>Physical Review Letters</i> , 2015, 114, 251601.	7.8	56
21	Longitudinal Coherence in a Holographic Model of Asymmetric Collisions. <i>Physical Review Letters</i> , 2014, 112, 221602.	7.8	50
22	Geometry of complexity in conformal field theory. <i>Physical Review Research</i> , 2020, 2, .	3.6	46
23	Supergravity description of boost invariant conformal plasma at strong coupling. <i>Physical Review D</i> , 2008, 77, .	4.7	40
24	How does relativistic kinetic theory remember about initial conditions?. <i>Physical Review D</i> , 2018, 98, .	4.7	40
25	Holographic Schwinger-Keldysh effective field theories. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	40
26	Conformal field theory complexity from Euler-Arnold equations. <i>Journal of High Energy Physics</i> , 2020, 2020, 91.	4.7	35
27	Effective actions for relativistic fluids from holography. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	34
28	Holographic de Sitter Geometry from Entanglement in Conformal Field Theory. <i>Physical Review Letters</i> , 2016, 116, 061602.	7.8	34
29	Consistent Holographic Description of Boost-Invariant Plasma. <i>Physical Review Letters</i> , 2009, 102, 041601.	7.8	28
30	Black brane entropy and hydrodynamics: The boost-invariant case. <i>Physical Review D</i> , 2009, 80, .	4.7	22
31	Entanglement and complexity of purification in $(1+1)$ -dimensional free conformal field theories. <i>Physical Review Research</i> , 2021, 3, .	3.6	22
32	Hydrodynamic gradient expansion in linear response theory. <i>Physical Review D</i> , 2021, 104, .	4.7	20
33	Towards a holographic realization of the quarkyonic phase. <i>Physical Review D</i> , 2013, 87, .	4.7	19
34	Long Distance Entanglement of Purification and Reflected Entropy in Conformal Field Theory. <i>Physical Review Letters</i> , 2021, 127, 141604.	7.8	19
35	Hydrodynamic Attractors in Phase Space. <i>Physical Review Letters</i> , 2020, 125, 132301.	7.8	18
36	Convergence of hydrodynamic modes: insights from kinetic theory and holography. <i>SciPost Physics</i> , 2021, 10, .	4.9	18

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37	Lessons for quantum cosmology from anti-de Sitter black holes. <i>Physical Review D</i> , 2020, 102, .	4.7	17
38	Spacetime as a quantum circuit. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	16
39	sQGP as hCFT. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 680, 521-525.	4.1	12
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	From spin chains to real-time thermal field theory using tensor networks. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
43	Hydrodynamic Gradient Expansion Diverges beyond Bjorken Flow. <i>Physical Review Letters</i> , 2022, 128, 122302.	7.8	10
44	Transseries for causal diffusive systems. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
45	The Logic of God. <i>Philosophical Education</i> , 2019, 68, 227-244.	0.0	4
46	Testing the membrane paradigm with holography. <i>Physical Review D</i> , 2015, 91, .	4.7	1