

Piotr Surowka

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,852
citations

516710

16
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1097
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-Dependent Symmetries and Fractons. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	32
2	Skin effect as a probe of transport regimes in Weyl semimetals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200367119.	7.1	12
3	Passive odd viscoelasticity. <i>Physical Review E</i> , 2022, 105, .	2.1	14
4	Bose-Hubbard realization of fracton defects. <i>Physical Review Research</i> , 2022, 4, .	3.6	3
5	Active Viscoelasticity of Odd Materials. <i>Physical Review Letters</i> , 2021, 126, 138001.	7.8	28
6	Dual gauge theory formulation of planar quasicrystal elasticity and fractons. <i>Physical Review B</i> , 2021, 103, .	3.2	14
7	Nonperturbative topological current in Weyl and Dirac semimetals in laser fields. <i>Physical Review B</i> , 2021, 103, .	3.2	12
8	Super-Resonant Transport of Topological Surface States Subjected to In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 076601.	7.8	6
9	Hydrodynamics of ideal fracton fluids. <i>Physical Review Research</i> , 2021, 3, .	3.6	32
10	Quantum Hall effective action for the anisotropic Dirac semimetal. <i>Physical Review B</i> , 2020, 102, .	3.2	4
11	Non-perturbative terahertz high-harmonic generation in the three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Nature Communications</i> , 2020, 11, 2451.	12.8	69
12	Odd elasticity. <i>Nature Physics</i> , 2020, 16, 475-480.	16.7	142
13	Shear viscosity as a probe of nodal topology. <i>Physical Review B</i> , 2020, 101, .	3.2	6
14	Non-Abelian anomalies in multi-Weyl semimetals. <i>Physical Review Research</i> , 2020, 2, .	3.6	36
15	On duality between Cosserat elasticity and fractons. <i>SciPost Physics</i> , 2020, 8, .	4.9	27
16	Magnetotransport in multi-Weyl semimetals: a kinetic theory approach. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	45
17	A new approach to non-Abelian hydrodynamics. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	5
18	One-loop effective actions and 2D hydrodynamics with anomalies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 746, 281-284.	4.1	2

#	ARTICLE	IF	CITATIONS
19	Phenomenology of nonrelativistic parity-violating hydrodynamics in 2+1 dimensions. Physical Review E, 2014, 90, 063005.	2.1	27
20	Sound-induced vortex interactions in a zero-temperature two-dimensional superfluid. Physical Review A, 2014, 90, .	2.5	20
21	Nonlinear evolution of unintegrated gluon density at large values of coupling constant. Physical Review D, 2014, 89, .	4.7	2
22	Anomaly/transport in an Ideal Weyl gas. Journal of High Energy Physics, 2012, 2012, 1.	4.7	100
23	Hydrodynamics from charged black branes. Journal of High Energy Physics, 2011, 2011, 1.	4.7	328
24	Transport in holographic superfluids. Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
25	On correlation functions of operators dual to classical spinning string states. Journal of High Energy Physics, 2010, 2010, 1.	4.7	83
26	Consistent Holographic Description of Boost-Invariant Plasma. Physical Review Letters, 2009, 102, 041601.	7.8	28
27	A holographic perspective on non-relativistic conformal defects. Journal of High Energy Physics, 2009, 2009, 038-038.	4.7	5
28	Hydrodynamics with Triangle Anomalies. Physical Review Letters, 2009, 103, 191601.	7.8	717
29	Flavors in an expanding plasma. Physical Review D, 2008, 77, .	4.7	4