

Piotr Surowka

List of Publications by Year in descending order

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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	Hydrodynamics with Triangle Anomalies. <i>Physical Review Letters</i> , 2009, 103, 191601.	7.8	717
2	Hydrodynamics from charged black branes. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	328
3	Odd elasticity. <i>Nature Physics</i> , 2020, 16, 475-480.	16.7	142
4	Anomaly/transport in an Ideal Weyl gas. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	100
5	On correlation functions of operators dual to classical spinning string states. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	83
6	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
7	Transport in holographic superfluids. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	49
8	Magnetotransport in multi-Weyl semimetals: a kinetic theory approach. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	45
9	Non-Abelian anomalies in multi-Weyl semimetals. <i>Physical Review Research</i> , 2020, 2, .	3.6	36
10	Space-Dependent Symmetries and Fractons. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	32
11	Hydrodynamics of ideal fracton fluids. <i>Physical Review Research</i> , 2021, 3, .	3.6	32
12	Consistent Holographic Description of Boost-Invariant Plasma. <i>Physical Review Letters</i> , 2009, 102, 041601.	7.8	28
13	Active Viscoelasticity of Odd Materials. <i>Physical Review Letters</i> , 2021, 126, 138001.	7.8	28
14	Phenomenology of nonrelativistic parity-violating hydrodynamics in 2+1 dimensions. <i>Physical Review E</i> , 2014, 90, 063005.	2.1	27
15	On duality between Cosserat elasticity and fractons. <i>SciPost Physics</i> , 2020, 8, .	4.9	27
16	Sound-induced vortex interactions in a zero-temperature two-dimensional superfluid. <i>Physical Review A</i> , 2014, 90, .	2.5	20
17	Dual gauge theory formulation of planar quasicrystal elasticity and fractons. <i>Physical Review B</i> , 2021, 103, .	3.2	14
18	Passive odd viscoelasticity. <i>Physical Review E</i> , 2022, 105, .	2.1	14

#	ARTICLE	IF	CITATIONS
19	Nonperturbative topological current in Weyl and Dirac semimetals in laser fields. <i>Physical Review B</i> , 2021, 103, .	3.2	12
20	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
21	Shear viscosity as a probe of nodal topology. <i>Physical Review B</i> , 2020, 101, .	3.2	6
22	Super-Resonant Transport of Topological Surface States Subjected to In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 076601.	7.8	6
23	A holographic perspective on non-relativistic conformal defects. <i>Journal of High Energy Physics</i> , 2009, 2009, 038-038.	4.7	5
24	A new approach to non-Abelian hydrodynamics. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	5
25	Flavors in an expanding plasma. <i>Physical Review D</i> , 2008, 77, .	4.7	4
26	Quantum Hall effective action for the anisotropic Dirac semimetal. <i>Physical Review B</i> , 2020, 102, .	3.2	4
27	Bose-Hubbard realization of fracton defects. <i>Physical Review Research</i> , 2022, 4, .	3.6	3
28	Nonlinear evolution of unintegrated gluon density at large values of coupling constant. <i>Physical Review D</i> , 2014, 89, .	4.7	2
29	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