Pavan R Hosur

List of Publications by Year
in descending order

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29 papers	2,999 citations	471061 17 h-index	476904 29 g-index
31 all docs	31 docs citations	31 times ranked	3469 citing authors

#	Article	IF	Citations
1	Recent developments in transport phenomena in Weyl semimetals. Comptes Rendus Physique, 2013, 14, 857-870.	0.3	636
2	Chaos in quantum channels. Journal of High Energy Physics, 2016, 2016, 1.	1.6	459
3	Charge Transport in Weyl Semimetals. Physical Review Letters, 2012, 108, 046602.	2.9	407
4	Ultracold Atoms in a Tunable Optical Kagome Lattice. Physical Review Letters, 2012, 108, 045305.	2.9	370
5	Circular photogalvanic effect on topological insulator surfaces: Berry-curvature-dependent response. Physical Review B, 2011, 83, .	1.1	196
6	Majorana Modes at the Ends of Superconductor Vortices in Doped Topological Insulators. Physical Review Letters, 2011, 107, 097001.	2.9	153
7	Friedel oscillations due to Fermi arcs in Weyl semimetals. Physical Review B, 2012, 86, .	1.1	135
8	Chiral topological insulators, superconductors, and other competing orders in three dimensions. Physical Review B, 2010, 81, .	1.1	122
9	Time-reversal-invariant topological superconductivity in doped Weyl semimetals. Physical Review B, 2014, 90, .	1.1	106
10	Tunable circular dichroism due to the chiral anomaly in Weyl semimetals. Physical Review B, 2015, 91, .	1.1	74
11	Quantum oscillations from generic surface Fermi arcs and bulk chiral modes in Weyl semimetals. Scientific Reports, 2016, 6, 23741.	1.6	68
12	Kerr effect as evidence of gyrotropic order in the cuprates. Physical Review B, 2013, 87, .	1.1	67
13	Crisscrossed stripe order from interlayer tunneling in hole-doped cuprates. Physical Review B, 2014, 90, .	1.1	27
14	Irradiated three-dimensional Luttinger semimetal: A factory for engineering Weyl semimetals. Physical Review B, 2018, 97, .	1.1	22
15	Effect of Zeeman coupling on the Majorana vortex modes in iron-based topological superconductors. Physical Review B, 2020, 101, .	1.1	19
16	Quasi-flat-band physics in a two-leg ladder model and its relation to magic-angle twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	17
17	Fermionic Hopf solitons and Berry phase in topological surface superconductors. Physical Review B, 2011, 84, .	1.1	15
18	Possible transport evidence for three-dimensional topological superconductivity in doped Î²-PdBi2. Scientific Reports, 2019, 9, 12504.	1.6	15

#	Article	IF	Citations
19	Characterizing eigenstate thermalization via measures in the Fock space of operators. Physical Review E, 2016, 93, 042138.	0.8	12
20	Unified Topological Response Theory For Gapped and Gapless Free Fermions. Physical Review X, 2015, 5, .	2.8	11
21	Out-of-time-ordered measurements as a probe of quantum dynamics. Physical Review A, 2018, 97, .	1.0	10
22	Fermi Arc Criterion for Surface Majorana Modes in Superconducting Time-Reversal Symmetric Weyl Semimetals. Physical Review Letters, 2021, 127, 187002.	2.9	10
23	Power-Law Temperature Dependence of the Penetration Depth in a Topological Superconductor Due to Surface States. Physical Review Letters, 2020, 124, 067001.	2.9	8
24	Larkin-Ovchinnikov state of superconducting Weyl metals: Fundamental differences between restricted and extended pairings in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math> -space. Physical Review B, 2017, 96, .	1.1	7
25	Elastoconductivity as a probe of broken mirror symmetries. Physical Review B, 2015, 92, .	1.1	4
26	Type-II Dirac cone and Dirac cone protected by nonsymmorphic symmetry in the carbon-lithium compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi>Li</mml:mi></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	4
27	Time-reversal asymmetry without local moments via directional scalar spin chirality. Journal of Physics Condensed Matter, 2020, 32, 255604.	0.7	2
28	Spontaneous time-reversal symmetry breaking without magnetism in an S=1 spin chain. Physical Review B, 2020, 102, .	1.1	1
29	Polynomial-time algorithm for studying physical observables in chaotic eigenstates. Physical Review B, 2021, 103, .	1.1	0