

Mehdi Kargarian

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,193
citations

567281

15
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

2644
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic topological insulators. <i>Nature Materials</i> , 2013, 12, 233-239.	27.5	1,475
2	Are the surface Fermi arcs in Dirac semimetals topologically protected?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8648-8652.	7.1	129
3	Topological Crystalline Insulators in Transition Metal Oxides. <i>Physical Review Letters</i> , 2013, 110, 156403.	7.8	96
4	Theory of Kerr and Faraday rotations and linear dichroism in Topological Weyl Semimetals. <i>Scientific Reports</i> , 2015, 5, 12683.	3.3	93
5	Time-reversal symmetry-breaking superconductivity in epitaxial bismuth/nickel bilayers. <i>Science Advances</i> , 2017, 3, e1602579.	10.3	71
6	Unusual magnetic phases in the strong interaction limit of two-dimensional topological band insulators in transition metal oxides. <i>Physical Review B</i> , 2012, 86, .	3.2	32
7	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. <i>Physical Review Letters</i> , 2019, 122, 047003.	7.8	30
8	Robustness of a topological phase: Topological color code in a parallel magnetic field. <i>Physical Review B</i> , 2013, 87, .	3.2	29
9	Doping the Kane-Mele-Hubbard model: A slave-boson approach. <i>Physical Review B</i> , 2011, 84, .	3.2	28
10	Amperean Pairing at the Surface of Topological Insulators. <i>Physical Review Letters</i> , 2016, 117, 076806.	7.8	27
11	Deformation and stability of surface states in Dirac semimetals. <i>Physical Review B</i> , 2018, 97, .	3.2	22
12	Infinite projected entangled-pair state algorithm for ruby and triangle-honeycomb lattices. <i>Physical Review B</i> , 2018, 97, .	3.2	22
13	Entanglement properties of topological color codes. <i>Physical Review A</i> , 2008, 78, .	2.5	21
14	Dynamo Effect and Turbulence in Hydrodynamic Weyl Metals. <i>Physical Review Letters</i> , 2018, 121, 176603.	7.8	18
15	Quantum phase transitions out of a Z_2 topological phase. <i>Physical Review B</i> , 2013, 88, .		
16	Nonlinear optical control of chiral charge pumping in a topological Weyl semimetal. <i>Physical Review B</i> , 2020, 102, .	3.2	15
17	Competing superconducting phases in the interacting two-dimensional electron gas with strong Rashba spin-orbit coupling. <i>Physical Review B</i> , 2019, 99, .	3.2	13
18	Topological spin liquids in the ruby lattice with anisotropic Kitaev interactions. <i>Physical Review B</i> , 2016, 94, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Hybrid topological magnon-phonon modes in ferromagnetic honeycomb and kagome lattices. Physical Review B, 2021, 104, .	3.2	9
20	Odd-frequency pairing in the edge states of superconducting pnictides in the coexistence phase with antiferromagnetism. Physical Review B, 2018, 98, .	3.2	6
21	Topological spin-plasma waves. Physical Review B, 2021, 104, .	3.2	6
22	Vortex bound states of charge and magnetic fluctuations induced topological superconductors in heterostructures. Physical Review B, 2019, 100, .	3.2	5
23	Gap-filling states induced by disorder and Zeeman coupling in the nodeless chiral superconducting Bi/Ni bilayer system. Physical Review B, 2019, 100, .	3.2	4
24	Equatorial magnetoplasma waves. Physical Review B, 2022, 105, .	3.2	4
25	Effects of dynamical noises on Majorana bound states. Physical Review B, 2020, 102, .	3.2	3
26	Excitonic insulator phase and condensate dynamics in a topological one-dimensional model. Physical Review B, 2020, 102, .	3.2	3
27	Phase diagram and thermal Hall conductivity of the spin-liquid Kekulé-Kitae model. Physical Review B, 2020, 101, .	3.2	2
28	Designing \mathbb{Z}_2 and $\mathbb{Z}_2 \times \mathbb{Z}_2$ topological orders in networks of Majorana bound states. Physical Review B, 2022, 105, .	3.2	1
29	Thermal Hall and Nernst responses in ultrathin magnetic films of pyrochlore lattice. Journal of Physics Condensed Matter, 2021, 33, 265601.	1.8	0