Mehdi Kargarian

List of Publications by Year
in descending order

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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	Probing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>Ã—</mml:mo><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> topological orders in networks of Majorana bound states. Physical Review B, 2022, 105, .	3.2	1
2	Equatorial magnetoplasma waves. Physical Review B, 2022, 105, .	3.2	4
3	Thermal Hall and Nernst responses in ultrathin magnetic films of pyrochlore lattice. Journal of Physics Condensed Matter, 2021, 33, 265601.	1.8	0
4	Hybrid topological magnon-phonon modes in ferromagnetic honeycomb and kagome lattices. Physical Review B, 2021, 104, .	3.2	9
5	Topological spin-plasma waves. Physical Review B, 2021, 104, .	3.2	6
6	Effects of dynamical noises on Majorana bound states. Physical Review B, 2020, 102, .	3.2	3
7	Phase diagram and thermal Hall conductivity of the spin-liquid KekulÃ©-Kitaev model. Physical Review B, 2020, 101, .	3.2	2
8	Nonlinear optical control of chiral charge pumping in a topological Weyl semimetal. Physical Review B, 2020, 102, .	3.2	15
9	Excitonic insulator phase and condensate dynamics in a topological one-dimensional model. Physical Review B, 2020, 102, .	3.2	3
10	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
11	Vortex bound states of charge and magnetic fluctuations induced topological superconductors in heterostructures. Physical Review B, 2019, 100, .	3.2	5
12	Anomalous Low-Temperature Enhancement of Supercurrent in Topological-Insulator Nanoribbon Josephson Junctions: Evidence for Low-Energy Andreev Bound States. Physical Review Letters, 2019, 122, 047003.	7.8	30
13	Competing superconducting phases in the interacting two-dimensional electron gas with strong Rashba spin-orbit coupling. Physical Review B, 2019, 99, .	3.2	13
14	Deformation and stability of surface states in Dirac semimetals. Physical Review B, 2018, 97, .	3.2	22
15	Infinite projected entangled-pair state algorithm for ruby and triangle-honeycomb lattices. Physical Review B, 2018, 97, .	3.2	22
16	Odd-frequency pairing in the edge states of superconducting pnictides in the coexistence phase with antiferromagnetism. Physical Review B, 2018, 98, .	3.2	6
17	Dynamo Effect and Turbulence in Hydrodynamic Weyl Metals. Physical Review Letters, 2018, 121, 176603.	7.8	18
18	Time-reversal symmetry-breaking superconductivity in epitaxial bismuth/nickel bilayers. Science Advances, 2017, 3, e1602579.	10.3	71

#	Article	IF	Citations
19	Topological spin liquids in the ruby lattice with anisotropic Kitaev interactions. Physical Review B, 2016, 94, .	3.2	12
20	Amperean Pairing at the Surface of Topological Insulators. Physical Review Letters, 2016, 117, 076806.	7.8	27
21	Are the surface Fermi arcs in Dirac semimetals topologically protected?. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8648-8652.	7.1	129
22	Theory of Kerr and Faraday rotations and linear dichroism in Topological Weyl Semimetals. Scientific Reports, 2015, 5, 12683.	3.3	93
23	Robustness of a topological phase: Topological color code in a parallel magnetic field. Physical Review B, 2013, 87, .	3.2	29
24	Quantum phase transitions out of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>Ã—</mml:mo><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>topological phase. Physical Review B, 2013, 88, .	3.2	17
25	Photonic topological insulators. Nature Materials, 2013, 12, 233-239.	27.5	1,475
26	Topological Crystalline Insulators in Transition Metal Oxides. Physical Review Letters, 2013, 110, 156403.	7.8	96
27	Unusual magnetic phases in the strong interaction limit of two-dimensional topological band insulators in transition metal oxides. Physical Review B, 2012, 86, .	3.2	32
28	Doping the Kane-Mele-Hubbard model: A slave-boson approach. Physical Review B, 2011, 84, .	3.2	28
29	Entanglement properties of topological color codes. Physical Review A, 2008, 78, .	2.5	21