Zhongbo Yan

List of Publications by Year
in descending order

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38 papers	1,711 citations	430442 18 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	1293 citing authors

#	Article	IF	Citations
1	Nodal-link semimetals. Physical Review B, 2017, 96, .	1.1	232
2	Majorana Corner Modes in a High-Temperature Platform. Physical Review Letters, 2018, 121, 096803.	2.9	210
3	Tunable Weyl Points in Periodically Driven Nodal Line Semimetals. Physical Review Letters, 2016, 117, 087402.	2.9	180
4	Nodal-knot semimetals. Physical Review B, 2017, 96, .	1.1	158
5	Experimental discovery of nodal chains. Nature Physics, 2018, 14, 461-464.	6.5	141
6	Topological invariants of Floquet systems: General formulation, special properties, and Floquet topological defects. Physical Review B, 2017, 96, .	1.1	123
7	Higher-Order Topological Odd-Parity Superconductors. Physical Review Letters, 2019, 123, 177001.	2.9	85
8	Majorana corner and hinge modes in second-order topological insulator/superconductor heterostructures. Physical Review B, 2019, 100, .	1.1	54
9	Collective modes in nodal line semimetals. Physical Review B, 2016, 93, .	1.1	53
10	First- and Second-Order Topological Superconductivity and Temperature-Driven Topological Phase Transitions in the Extended Hubbard Model with Spin-Orbit Coupling. Physical Review Letters, 2020, 125, 017001.	2.9	50
11	Higher-order topological superconductivity: Possible realization in Fermi gases and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 99, .	1.1	49
12	Floquet multi-Weyl points in crossing-nodal-line semimetals. Physical Review B, 2017, 96, .	1.1	48
13	The discovery of dynamic chiral anomaly in a Weyl semimetal NbAs. Nature Communications, 2020, 11, 1259.	5.8	38
14	Chiral Landau levels in Weyl semimetal NbAs with multiple topological carriers. Nature Communications, 2018, 9, 1854.	5.8	37
15	Majorana Zero Modes Protected by a Hopf Invariant in Topologically Trivial Superconductors. Physical Review Letters, 2017, 118, 147003.	2.9	28
16	Simulation of higher-order topological phases and related topological phase transitions in a superconducting qubit. Science Bulletin, 2021, 66, 1168-1175.	4.3	28
17	Vortex-line topology in iron-based superconductors with and without second-order topology. Physical Review B, 2021, 103, .	1.1	25
18	Vortex End Majorana Zero Modes in Superconducting Dirac and Weyl Semimetals. Physical Review Letters, 2020, 124, 257001.	2.9	24

#	Article	IF	Citations
19	Topological phases, topological flat bands, and topological excitations in a one-dimensional dimerized lattice with spin-orbit coupling. Europhysics Letters, 2014, 107, 47007.	0.7	18
20	Nonanalyticity of circuit complexity across topological phase transitions. Physical Review B, 2020, 101, .	1.1	17
21	Topological Superfluid and Majorana Zero Modes in Synthetic Dimension. Scientific Reports, 2015, 5, 15927.	1.6	16
22	Acoustic higher-order topology derived from first-order with built-in Zeeman-like fields. Science Bulletin, 2022, 67, 488-494.	4.3	16
23	A General Time-Periodic Driving Approach to Realize Topological Phases in Cold Atomic Systems. Scientific Reports, 2015, 5, 16197.	1.6	12
24	Surface Bogoliubov-Dirac cones and helical Majorana hinge modes in superconducting Dirac semimetals. Physical Review B, 2022, 105, .	1.1	12
25	Boundary topological superconductors. Physical Review B, 2021, 103, .	1.1	11
26	Topological defects in Floquet systems: Anomalous chiral modes and topological invariant. Physical Review B, 2017, 95, .	1.1	10
27	A study on the tunneling spectroscopy of an ${m N}-p{m S}$ junction and an ${m N}-{m hS}$ junction. New Journal of Physics, 2014, 16, 093004.	1.2	7
28	Nonlinear Hall effect in two-dimensional class-AI metals. Physical Review B, 2021, 103, .	1.1	6
29	Topological Phase Transitions and Evolution of Boundary States Induced by Zeeman Fields in Second-Order Topological Insulators. Frontiers in Physics, 2022, 10, .	1.0	6
30	Magnetic impurities in a two-dimensional superfluid Fermi gas with spin-orbit coupling. European Physical Journal B, 2012, 85, 1.	0.6	4
31	Topological superfluid in one-dimensional ultracold atomic system with spin-orbit coupling. European Physical Journal B, 2013, 86, 1.	0.6	4
32	Unconventional Landau level transitions in Weyl semimetal NbP. Physical Review Materials, 2022, 6, .	0.9	3
33	Supersolid in Boseâ€“Boseâ€“Fermi mixtures subjected to a square lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 055302.	0.6	1
34	Long-range order in one-dimensional spinless Fermi gas with attractive dipoleâ€“dipole interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 135302.	0.6	1
35	Measuring the spin polarization of a ferromagnet: An application of time-reversal invariant topological superconductor. Europhysics Letters, 2015, 111, 47002.	0.7	1
36	Tunneling magnetoresistance in junctions composed of ferromagnets and time-reversal invariant topological superconductors. New Journal of Physics, 2016, 18, 023031.	1.2	1

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37	Unconventional topological insulators from extended topological band degeneracies. Physical Review B, 2020, 102, .	1.1	1
38	Magnetic-field-induced nonlinear transport in HfTe5. National Science Review, 0, , .	4.6	1