

# 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	Acoustic higher-order topology derived from first-order with built-in Zeeman-like fields. Science Bulletin, 2022, 67, 488-494.	4.3	16
2	Surface Bogoliubov-Dirac cones and helical Majorana hinge modes in superconducting Dirac semimetals. Physical Review B, 2022, 105, .	1.1	12
3	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
4	Unconventional Landau level transitions in Weyl semimetal NbP. Physical Review Materials, 2022, 6, .	0.9	3
5	Boundary topological superconductors. Physical Review B, 2021, 103, .	1.1	11
6	Vortex-line topology in iron-based superconductors with and without second-order topology. Physical Review B, 2021, 103, .	1.1	25
7	Simulation of higher-order topological phases and related topological phase transitions in a superconducting qubit. Science Bulletin, 2021, 66, 1168-1175.	4.3	28
8	Nonlinear Hall effect in two-dimensional class-AI metals. Physical Review B, 2021, 103, .	1.1	6
9	Unconventional topological insulators from extended topological band degeneracies. Physical Review B, 2020, 102, .	1.1	1
10	Nonanalyticity of circuit complexity across topological phase transitions. Physical Review B, 2020, 101, .	1.1	17
11	Vortex End Majorana Zero Modes in Superconducting Dirac and Weyl Semimetals. Physical Review Letters, 2020, 124, 257001.	2.9	24
12	The discovery of dynamic chiral anomaly in a Weyl semimetal NbAs. Nature Communications, 2020, 11, 1259.	5.8	38
13	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
14	Majorana corner and hinge modes in second-order topological insulator/superconductor heterostructures. Physical Review B, 2019, 100, .	1.1	54
15	Higher-Order Topological Odd-Parity Superconductors. Physical Review Letters, 2019, 123, 177001.	2.9	85
16	Higher-order topological superconductivity: Possible realization in Fermi gases and $Sr_2Cr_2O_7$ . Physical Review B, 2019, 99, .	2.9	49
17	Experimental discovery of nodal chains. Nature Physics, 2018, 14, 461-464.	6.5	141
18	Majorana Corner Modes in a High-Temperature Platform. Physical Review Letters, 2018, 121, 096803.	2.9	210

#	ARTICLE	IF	CITATIONS
19	Chiral Landau levels in Weyl semimetal NbAs with multiple topological carriers. Nature Communications, 2018, 9, 1854.	5.8	37
20	Floquet multi-Weyl points in crossing-nodal-line semimetals. Physical Review B, 2017, 96, .	1.1	48
21	Nodal-knot semimetals. Physical Review B, 2017, 96, .	1.1	158
22	Topological invariants of Floquet systems: General formulation, special properties, and Floquet topological defects. Physical Review B, 2017, 96, .	1.1	123
23	Majorana Zero Modes Protected by a Hopf Invariant in Topologically Trivial Superconductors. Physical Review Letters, 2017, 118, 147003.	2.9	28
24	Nodal-link semimetals. Physical Review B, 2017, 96, .	1.1	232
25	Topological defects in Floquet systems: Anomalous chiral modes and topological invariant. Physical Review B, 2017, 95, .	1.1	10
26	Tunneling magnetoresistance in junctions composed of ferromagnets and time-reversal invariant topological superconductors. New Journal of Physics, 2016, 18, 023031.	1.2	1
27	Tunable Weyl Points in Periodically Driven Nodal Line Semimetals. Physical Review Letters, 2016, 117, 087402.	2.9	180
28	Collective modes in nodal line semimetals. Physical Review B, 2016, 93, .	1.1	53
29	Topological Superfluid and Majorana Zero Modes in Synthetic Dimension. Scientific Reports, 2015, 5, 15927.	1.6	16
30	A General Time-Periodic Driving Approach to Realize Topological Phases in Cold Atomic Systems. Scientific Reports, 2015, 5, 16197.	1.6	12
31	Measuring the spin polarization of a ferromagnet: An application of time-reversal invariant topological superconductor. Europhysics Letters, 2015, 111, 47002.	0.7	1
32	A study on the tunneling spectroscopy of an $\{m N\}$ - $\{m S\}$ junction and an $\{m N\}$ - $\{m hS\}$ junction. New Journal of Physics, 2014, 16, 093004.	1.2	7
33	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
34	Long-range order in one-dimensional spinless Fermi gas with attractive dipole-dipole interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 135302.	0.6	1
35	Supersolid in Bose-Bose-Fermi mixtures subjected to a square lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 055302.	0.6	1
36	Topological superfluid in one-dimensional ultracold atomic system with spin-orbit coupling. European Physical Journal B, 2013, 86, 1.	0.6	4

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37	Magnetic impurities in a two-dimensional superfluid Fermi gas with spin-orbit coupling. European Physical Journal B, 2012, 85, 1.	0.6	4
38	Magnetic-field-induced nonlinear transport in HfTe5. National Science Review, 0, , .	4.6	1