Zhong Wang

List of Publications by Year
in descending order

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43 papers	5,843 citations	147801 31 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	3218 citing authors

#	Article	IF	Citations
1	Edge States and Topological Invariants of Non-Hermitian Systems. Physical Review Letters, 2018, 121, 086803.	7.8	1,148
2	Non-Hermitian Chern Bands. Physical Review Letters, 2018, 121, 136802.	7.8	593
3	Non-Hermitian bulkâ€“boundary correspondence in quantum dynamics. Nature Physics, 2020, 16, 761-766.	16.7	491
4	Non-Hermitian Skin Effect and Chiral Damping in Open Quantum Systems. Physical Review Letters, 2019, 123, 170401.	7.8	328
5	Non-Hermitian Topological Invariants in Real Space. Physical Review Letters, 2019, 123, 246801.	7.8	274
6	Nodal-link semimetals. Physical Review B, 2017, 96, .	3.2	232
7	Majorana Corner Modes in a High-Temperature Platform. Physical Review Letters, 2018, 121, 096803.	7.8	210
8	Simplified Topological Invariants for Interacting Insulators. Physical Review X, 2012, 2, .	8.9	187
9	Chiral anomaly, charge density waves, and axion strings from Weyl semimetals. Physical Review B, 2013, 87, .	3.2	184
10	Tunable Weyl Points in Periodically Driven Nodal Line Semimetals. Physical Review Letters, 2016, 117, 087402.	7.8	180
11	Topological Order Parameters for Interacting Topological Insulators. Physical Review Letters, 2010, 105, 256803.	7.8	170
12	Nodal-knot semimetals. Physical Review B, 2017, 96, .	3.2	158
13	Zeeman splitting and dynamical mass generation in Dirac semimetal ZrTe5. Nature Communications, 2016, 7, 12516.	12.8	149
14	Experimental discovery of nodal chains. Nature Physics, 2018, 14, 461-464.	16.7	141
15	Topological invariants of Floquet systems: General formulation, special properties, and Floquet topological defects. Physical Review B, 2017, 96, .	3.2	123
16	Topological magnetoplasmon. Nature Communications, 2016, 7, 13486.	12.8	108
17	Observation of Non-Bloch Parity-Time Symmetry and Exceptional Points. Physical Review Letters, 2021, 126, 230402.	7.8	100
18	Topological field theory and thermal responses of interacting topological superconductors. Physical Review B, 2011, 84, .	3.2	98

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19	Dirac-vortex topological cavities. Nature Nanotechnology, 2020, 15, 1012-1018.	31.5	95
20	Topological one-way fiber of second Chern number. Nature Communications, 2018, 9, 5384.	12.8	82
21	Equivalent topological invariants of topological insulators. New Journal of Physics, 2010, 12, 065007.	2.9	81
22	Topological invariants for interacting topological insulators with inversion symmetry. Physical Review B, 2012, 85, .	3.2	71
23	Topological Hamiltonian as an exact tool for topological invariants. Journal of Physics Condensed Matter, 2013, 25, 155601.	1.8	62
24	Simple formulas of directional amplification from non-Bloch band theory. Physical Review B, 2021, 103, .	3.2	56
25	Strongly correlated topological superconductors and topological phase transitions via Green's function. Physical Review B, 2012, 86, .	3.2	54
26	Collective modes in nodal line semimetals. Physical Review B, 2016, 93, .	3.2	53
27	Floquet multi-Weyl points in crossing-nodal-line semimetals. Physical Review B, 2017, 96, .	3.2	48
28	Formation and Photoresponsive Properties of Giant Microvesicles Assembled from Azobenzene-Containing Amphiphilic Diblock Copolymers. Macromolecular Chemistry and Physics, 2007, 208, 955-963.	2.2	47
29	Non-Hermitian Edge Burst. Physical Review Letters, 2022, 128, 120401.	7.8	44
30	Chiral Landau levels in Weyl semimetal NbAs with multiple topological carriers. Nature Communications, 2018, 9, 1854.	12.8	37
31	Magnetic-order-driven topological transition in the Haldane-Hubbard model. Physical Review B, 2015, 91, .	3.2	36
32	Helical Spin Order from Topological Dirac and Weyl Semimetals. Physical Review Letters, 2015, 115, 076802.	7.8	29
33	Signature of chiral fermion instability in the Weyl semimetal TaAs above the quantum limit. Physical Review B, 2016, 94, .	3.2	29
34	Majorana Zero Modes Protected by a Hopf Invariant in Topologically Trivial Superconductors. Physical Review Letters, 2017, 118, 147003.	7.8	28
35	Unidirectional transport in electronic and photonic Weyl materials by Dirac mass engineering. Physical Review B, 2015, 92, .	3.2	26
36	Topological number and fermion Green's function for strongly interacting topological superconductors. Physical Review B, 2014, 90, .	3.2	21

#	Article	IF	Citations
37	Topological Invariants and Ground-State Wave functions of Topological Insulators on a Torus. Physical Review X, 2014, 4, .	8.9	20
38	Topological Superfluid and Majorana Zero Modes in Synthetic Dimension. Scientific Reports, 2015, 5, 15927.	3.3	16
39	Solving the Liouvillian Gap with Artificial Neural Networks. Physical Review Letters, 2021, 126, 160401.	7.8	13
40	Topological defects in Floquet systems: Anomalous chiral modes and topological invariant. Physical Review B, 2017, 95, .	3.2	10
41	Fractionalized (Weyl-)semi-metals and superconductors in three dimensions. Physica B: Condensed Matter, 2015, 475, 80-85.	2.7	4
42	Generalized Brillouin zone and non-Hermitian band theory. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 230307.	0.5	4
43	Interaction of electrons, magnetic monopoles, and photons. Physical Review D, 2015, 91, .	4.7	3