

Yuxin Zhao

List of Publications by Year in descending order

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papers

2,229
citations

257450

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docs citations

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times ranked

1721
citing authors

#	ARTICLE	IF	CITATIONS
1	Nodal surface semimetals: Theory and material realization. <i>Physical Review B</i> , 2018, 97, .	3.2	248
2	Topological quantum matter with cold atoms. <i>Advances in Physics</i> , 2018, 67, 253-402.	14.4	198
3	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. <i>Physical Review Letters</i> , 2019, 123, 256402.	7.8	193
4	Topological Classification and Stability of Fermi Surfaces. <i>Physical Review Letters</i> , 2013, 110, 240404.	7.8	158
5	Spin Direction-Controlled Electronic Band Structure in Two-Dimensional Ferromagnetic CrI ₃ . <i>Nano Letters</i> , 2018, 18, 3844-3849.	9.1	150
6	Unified Theory of P and T and C Invariant Topological Metals and Nodal Superconductors. <i>Physical Review Letters</i> , 2016, 116, 156402.	7.8	127
7	Quadratic and cubic nodal lines stabilized by crystalline symmetry. <i>Physical Review B</i> , 2019, 99, .	3.2	89
8	P -Symmetric Real Dirac Fermions and Semimetals. <i>Physical Review Letters</i> , 2017, 118, 056401.	7.8	85
9	Nonsymmorphic symmetry-required band crossings in topological semimetals. <i>Physical Review B</i> , 2016, 94, .	3.2	84
10	4D spinless topological insulator in a periodic electric circuit. <i>National Science Review</i> , 2020, 7, 1288-1295.	9.5	69
11	Topological transport in Dirac nodal-line semimetals. <i>Physical Review B</i> , 2018, 97, .	3.2	66
12	Quadratic contact point semimetal: Theory and material realization. <i>Physical Review B</i> , 2018, 98, .	3.2	57
13	Higher-order Dirac fermions in three dimensions. <i>Physical Review B</i> , 2020, 101, .	3.2	56
14	Boundary Criticality of PT -Invariant Topology and Second-Order Nodal-Line Semimetals. <i>Physical Review Letters</i> , 2020, 125, 126403.	7.8	53
15	Quantum simulation of exotic PT -invariant topological nodal loop bands with ultracold atoms in an optical lattice. <i>Physical Review A</i> , 2016, 93, .	2.5	50
16	Circumventing the no-go theorem: A single Weyl point without surface Fermi arcs. <i>Physical Review B</i> , 2019, 100, .	3.2	50
17	Topological connection between the stability of Fermi surfaces and topological insulators and superconductors. <i>Physical Review B</i> , 2014, 89, .	3.2	46
18	Projectively Enriched Symmetry and Topology in Acoustic Crystals. <i>Physical Review Letters</i> , 2022, 128, 116802.	7.8	39

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19	Topology and exceptional points of massive Dirac models with generic non-Hermitian perturbations. Physical Review B, 2019, 99, .	3.2	38
20	Second-Order Real Nodal-Line Semimetal in Three-Dimensional Graphdiyne. Physical Review Letters, 2022, 128, 026405.	7.8	34
21	Switching Spinless and Spinful Topological Phases with Projective $P \times T$ Symmetry. Physical Review Letters, 2021, 126, 196402.	7.8	30
22	Graphyne as a second-order and real Chern topological insulator in two dimensions. Physical Review B, 2021, 104, .	3.2	30
23	Z_2 -projective translational symmetry protected topological phases. Physical Review B, 2020, 102, .	3.2	29
24	Simulation and Manipulation of Tunable Weyl-Semimetal Bands Using Superconducting Quantum Circuits. Physical Review Letters, 2019, 122, 010501.	7.8	28
25	Nodal line fermions in magnetic oxides. Physical Review B, 2018, 97, .	3.2	24
26	Gauge-Field Extended $k \cdot \hat{A} \cdot p$ Method and Novel Topological Phases. Physical Review Letters, 2021, 127, 076401.	7.8	24
27	Disordered Weyl Semimetals and Their Topological Family. Physical Review Letters, 2015, 114, 206602.	7.8	22
28	Exotic topological types of Majorana zero modes and their universal quantum manipulation. Physical Review B, 2014, 90, .	3.2	21
29	Realizing and manipulating space-time inversion symmetric topological semimetal bands with superconducting quantum circuits. Npj Quantum Materials, 2017, 2, .	5.2	20
30	Novel Z_2 Topological Metals and Semimetals. Physical Review Letters, 2016, 116, 016401.	7.8	19
31	Phononic real Chern insulator with protected corner modes in graphynes. Physical Review B, 2022, 105, .	3.2	16
32	Colossal angular magnetoresistance in the antiferromagnetic semiconductor EuTe_2 . Physical Review B, 2021, 104, .	7.8	16
33	Index Theorem on Chiral Landau Bands for Topological Fermions. Physical Review Letters, 2021, 126, 046401.	7.8	14
34	Brillouin Klein bottle from artificial gauge fields. Nature Communications, 2022, 13, 2215.	12.8	14
35	Effective long-range pairing and hopping in topological nanowires weakly coupled to s -wave superconductors. Physical Review B, 2018, 98, .	3.2	7
36	Emergent Kondo Behavior from Gauge Fluctuations in Spin Liquids. Physical Review Letters, 2021, 127, 237202.	7.8	7

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37	Equivariant PT-symmetric real Chern insulators. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	6
38	Takagi topological insulator with odd PT pairs of corner states. <i>Physical Review B</i> , 2021, 104, .	3.2	4
39	General response theory of topologically stable Fermi points and its implications for disordered cases. <i>Physical Review B</i> , 2015, 92, .	3.2	3
40	Realizing universal quantum gates with topological bases in quantum-simulated superconducting chains. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	3
41	Tensor theory for higher-dimensional Chern insulators with large Chern numbers. <i>Physical Review B</i> , 2022, 105, .	3.2	2
42	Locking of symmetry breaking and topological phase in an interacting fermionic wire. <i>Physical Review Research</i> , 2020, 2, .	3.6	1
43	Takagi Topological Insulator on the Honeycomb Lattice. <i>Frontiers in Physics</i> , 0, 10, .	2.1	0