

Zhi-Jun Wang

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

21,327
citations

38660

50
h-index

21474

114
g-index

124
all docs

124
docs citations

124
times ranked

10275
citing authors

#	ARTICLE	IF	CITATIONS
1	Type-II Weyl semimetals. Nature, 2015, 527, 495-498.	13.7	1,977
2	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na ₃ Bi. Science, 2014, 343, 864-867.	6.0	1,889
3	Dirac semimetal and topological phase transitions in Bi_2Te_3 . Physical Review Letters, 2011, 107, 186806.	2.9	1,227
4	Three-dimensional Dirac semimetal and quantum transport in Cd ₃ As ₂ . Physical Review B, 2013, 88, .	1.1	1,357
5	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . Nature Materials, 2014, 13, 677-681.	13.3	1,242
6	Chern Semimetal and the Quantized Anomalous Hall Effect in HgCr_2Se_4 . Physical Review Letters, 2011, 107, 186806.	2.9	1,227
7	Higher-order topological insulators. Science Advances, 2018, 4, eaat0346.	4.7	1,066
8	Topological quantum chemistry. Nature, 2017, 547, 298-305.	13.7	947
9	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. Science, 2016, 353, aaf5037.	6.0	881
10	A complete catalogue of high-quality topological materials. Nature, 2019, 566, 480-485.	13.7	721
11	Higher-order topology in bismuth. Nature Physics, 2018, 14, 918-924.	6.5	590
12	Observation of topological superconductivity on the surface of an iron-based superconductor. Science, 2018, 360, 182-186.	6.0	500
13	The chiral anomaly and thermopower of Weyl fermions in the half-Heusler AgPtBi . Nature Materials, 2016, 15, 1161-1165.	13.3	436
14	A Type-II Weyl Topological Metal. Physical Review Letters, 2016, 117, 056805.	2.9	500
15	Hourglass fermions. Nature, 2016, 532, 189-194.	13.7	343
16	All Magic Angles in Twisted Bilayer Graphene are Topological. Physical Review Letters, 2019, 123, 036401.	2.9	327
17	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. Physical Review Letters, 2016, 117, 236401.	2.9	282
18	Twisted Bilayer Graphene: A Phonon-Driven Superconductor. Physical Review Letters, 2019, 122, 257002.	2.9	255

#	ARTICLE	IF	CITATIONS
19	Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides X Te		

#	ARTICLE	IF	CITATIONS
37	Experimental evidence of hourglass fermion in the candidate nonsymmorphic topological insulator KHgSb. <i>Science Advances</i> , 2017, 3, e1602415.	4.7	121
38	Strong Anisotropy of Dirac Cones in SrMnBi ₂ and CaMnBi ₂ Revealed by Angle-Resolved Photoemission Spectroscopy. <i>Scientific Reports</i> , 2014, 4, 5385.	1.6	105
39	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , 2016, 7, 12297.	5.8	105
40	Topology of Disconnected Elementary Band Representations. <i>Physical Review Letters</i> , 2018, 120, 266401.	2.9	102
41	Topological Insulators from Group Cohomology. <i>Physical Review X</i> , 2016, 6, .	2.8	100
42	Disconnected elementary band representations, fragile topology, and Wilson loops as topological indices: An example on the triangular lattice. <i>Physical Review B</i> , 2019, 99, .	1.1	99
43	Chiral anomaly factory: Creating Weyl fermions with a magnetic field. <i>Physical Review B</i> , 2017, 95, .	1.1	94
44	Graph theory data for topological quantum chemistry. <i>Physical Review E</i> , 2017, 96, 023310.	0.8	84
45	A charge-density-wave topological semimetal. <i>Nature Physics</i> , 2021, 17, 381-387.	6.5	76
46	Symmetry-enforced Weyl phonons. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	69
47	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB ₆ . <i>Physical Review Letters</i> , 2020, 124, 076403.	2.9	65
48	Topological materials discovery from crystal symmetry. <i>Nature Reviews Materials</i> , 2022, 7, 196-216.	23.3	65
49	Charge-four Weyl phonons. <i>Physical Review B</i> , 2021, 103, .	1.1	59
50	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , 2016, 93, .	1.1	54
51	Magnetic topological insulator $\text{MnBi}_6\text{Te}_{10}$ with a zero field ferromagnetic state and gapped Dirac surface states. <i>Physical Review B</i> , 2020, 102, .	1.1	50
52	Band connectivity for topological quantum chemistry: Band structures as a graph theory problem. <i>Physical Review B</i> , 2018, 97, .	1.1	49
53	Interaction-induced quantum anomalous Hall phase in (111) bilayer of LaCoO_3 . <i>Physical Review B</i> , 2015, 91, .	1.1	47
54	Topological phases in the TaSe_3 compound. <i>Physical Review B</i> , 2018, 98, .	1.1	46

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55	Topological insulator to Dirac semimetal transition driven by sign change of spin-orbit coupling in thallium nitride. <i>Physical Review B</i> , 2014, 90, .	1.1	43
56	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	38
57	Sixfold excitations in electrifieds. <i>Physical Review Research</i> , 2021, 3, .	1.3	37
58	Temperature-driven topological transition in 1T'-MoTe ₂ . <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	36
59	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb ₂ . <i>Advanced Materials</i> , 2020, 32, e1906046.	11.1	36
60	Chiral fermion reversal in chiral crystals. <i>Nature Communications</i> , 2019, 10, 5505.	5.8	35
61	Electronic structures and topological properties in nickelates Ln _n +1Ni _n O _{2n} +2. <i>National Science Review</i> , 2021, 8, nwa218.	4.6	33
62	Unconventional materials: the mismatch between electronic charge centers and atomic positions. <i>Science Bulletin</i> , 2022, 67, 598-608.	4.3	32
63	First-principles prediction of an intrinsic half-metallic graphitic hydrogenated carbon nitride. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 347-350.	0.9	30
64	Mapping Dirac fermions in the intrinsic antiferromagnetic topological insulators $\langle \text{mml:math}$		

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73	Topological electronic states in HfRuP family superconductors. Npj Computational Materials, 2019, 5, .	3.5	21
74	Electronic structure, Dirac points and Fermi arc surface states in three-dimensional Dirac semimetal Na ₃ Bi from angle-resolved photoemission spectroscopy. Chinese Physics B, 2016, 25, 077101.	0.7	20
75	Magnetic and electronic properties of the Cu-substituted Weyl semimetal candidate ZrCo ₂ Sn. Journal of Physics Condensed Matter, 2018, 30, 075701.	0.7	20
76	NdAlSi: A magnetic Weyl semimetal candidate with rich magnetic phases and atypical transport properties. Physical Review B, 2022, 105, .	1.1	17
77	Angle-resolved photoemission observation of Mn-pnictide hybridization and negligible band structure renormalization in BaMn ₂ and High-throughput screening for Weyl semimetals with S symmetry. Science Bulletin, 2021, 66, 667-675.	1.1	16
78	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe. Physical Review Materials, 2020, 4, .	4.3	16
79	Topological crystalline insulators with C ₂ rotation anomaly. Physical Review Research, 2019, 1, .	0.9	16
80	Superconductivity and Charge Density Wave in Iodine-Doped Cu ₂ Te ₄ . Chinese Physics Letters, 2021, 38, 037401.	1.3	15
81	Ferromagnetism and antiferromagnetism in hydrogenated g-C ₃ N ₄ : A first-principles study. Physica B: Condensed Matter, 2013, 421, 46-49.	1.3	14
82	Quasiparticle interference of Fermi arc states in the type-II Weyl semimetal candidate WT ₂ e ₂ . Physical Review B, 2018, 97, .	1.1	14
83	A gap-protected zero-Hall effect state in the quantum limit of the non-symmorphic metal KHgSb. Nature Materials, 2019, 18, 443-447.	13.3	14
84	Time-Reversal Symmetry Breaking Driven Topological Phase Transition in EuB ₆ . Physical Review X, 2021, 11, .	2.8	14
85	Surface charge induced Dirac band splitting in a charge density wave material I ₄ . Physical Review Research, 2021, 3, .	1.3	13
86	Pressure-induced a partial disorder and superconductivity in quasi-one-dimensional Weyl semimetal (NbSe ₄) ₂ I. Materials Today Physics, 2021, 21, 100509.	2.9	13
87	Layer construction of topological crystalline insulator LaSbTe. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	12
88	Weyl semimetals with S ₄ symmetry. Physical Review B, 2020, 101, .	1.1	11
89	Observation of topological edge states in the quantum spin Hall insulator Ta ₂ Te ₅ . Physical Review B, 2021, 104, .	1.1	10
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91	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe ₃ . Nature Materials, 2022, 21, 423-429.	13.3	8
92	Crystal growth and stoichiometry-dependent properties of the ferromagnetic Weyl semimetal ZrCo ₂ As _{3-x} Sn. Journal of Physics Condensed Matter, 2017, 29, 225702.	0.7	7
93	Beam dynamics, RF measurement, and commissioning of a CW heavy ion IH-DTL. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	1.3	7
94	Topological insulators in the NaCaBi family with large spin-orbit coupling gaps. Physical Review Research, 2021, 3, .	1.3	7
95	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl ₄ . Npj Quantum Materials, 2021, 6, .	1.8	7
96	Twisted nodal wires and three-dimensional quantum spin Hall effect in distorted square-net compounds. Physical Review B, 2022, 105, .	1.1	7
97	Determination of the optimal thickness of inserted LiF in bilayer organic light-emitting devices. Solid State Communications, 2007, 144, 445-449.	0.9	6
98	Composite Icosahedron/Cube Endohedral Clusters in Rh ₂ Cd ₁₅ . Inorganic Chemistry, 2016, 55, 7605-7609.	1.9	6
99	Realization of low-energy type-II Dirac fermions in (Ir _{1-x} Pt _x) ₂ TlTe. Physical Review Letters, 2017, 118, 077401.	0.7	6
100	BaHgSn: A Dirac semimetal with surface hourglass fermions. Physical Review B, 2020, 101, .	1.1	6
101	Physics design of the superconducting section of the CiADS linac. International Journal of Modern Physics A, 2019, 34, 1950178.	0.5	5
102	Discovery of \hat{C}_2 rotation anomaly in topological crystalline insulator SrPb. Nature Communications, 2021, 12, 2052.	5.8	5
103	Unprotected quadratic band crossing points and quantum anomalous Hall effect in FeB ₂ monolayer. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	4
104	Noninterceptive transverse emittance measurements using BPM for Chinese ADS R&D project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 171-175.	0.7	3
105	Fabrication and cold test of prototype of spatially periodic radio frequency quadrupole focusing linac. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	1.3	3
106	Surface State Bands in Superconducting (Pt _x Ir _{1-x}) ₂ Te. Chinese Physics Letters, 2015, 32, 077402.	1.3	2
107	Glide-resolved photoemission spectroscopy: Measuring topological invariants in nonsymmorphic space groups. Physical Review B, 2020, 101, .	1.1	2
108	Research of beam matching on RFQ for CADS proton linac. International Journal of Modern Physics E, 2021, 30, 2150027.	0.4	2

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109	Influence of the solenoid magnetic field on the self-modulation mechanism. Laser and Particle Beams, 2020, 38, 135-140.	0.4	2
110	Physics design of the CiADS MEBT. International Journal of Modern Physics A, 2021, 36, 2150127.	0.5	1
111	Beam dynamics design of HIAF RFQ. International Journal of Modern Physics E, 2021, 30, .	0.4	1
112	Measurement of beam steering and RF defocusing effect for a quarter-wave resonator. International Journal of Modern Physics E, 2019, 28, 1950019.	0.4	0
113	The wakefield and energy loss study of microbunch trains passing through plasmas. Contributions To Plasma Physics, 2021, 61, e202000187.	0.5	0
114	Ferromagnetic and ferroelectric insulator		
115	Physical Review Materials, 2021, 5, . Development and cold-test of an RFQ-DTL coupled cavity. International Journal of Modern Physics A, 0, .	0.5	0