

Zhi-Jun Wang

List of Publications by Citations

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109
papers

14,518
citations

45
h-index

120
g-index

124
ext. papers

18,635
ext. citations

10.2
avg, IF

6.86
L-index

#	Paper	IF	Citations
109	Discovery of a three-dimensional topological Dirac semimetal, Na ₃ Bi. <i>Science</i> , 2014 , 343, 864-7	33.3	1516
108	Type-II Weyl semimetals. <i>Nature</i> , 2015 , 527, 495-8	50.4	1482
107	Dirac semimetal and topological phase transitions in A ₃ Bi (A=Na, K, Rb). <i>Physical Review B</i> , 2012 , 85,	3.3	1244
106	Three-dimensional Dirac semimetal and quantum transport in Cd ₃ As ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	1094
105	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014 , 13, 677-81	27	1010
104	Chern semimetal and the quantized anomalous Hall effect in HgCr ₂ Se ₄ . <i>Physical Review Letters</i> , 2011 , 107, 186806	7.4	960
103	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. <i>Science</i> , 2016 , 353, aaf5037	33.3	601
102	Higher-order topological insulators. <i>Science Advances</i> , 2018 , 4, eaat0346	14.3	558
101	Topological quantum chemistry. <i>Nature</i> , 2017 , 547, 298-305	50.4	537
100	A complete catalogue of high-quality topological materials. <i>Nature</i> , 2019 , 566, 480-485	50.4	390
99	Higher-Order Topology in Bismuth. <i>Nature Physics</i> , 2018 , 14, 918-924	16.2	328
98	The chiral anomaly and thermopower of Weyl fermions in the half-Heusler GdPtBi. <i>Nature Materials</i> , 2016 , 15, 1161-1165	27	301
97	Observation of topological superconductivity on the surface of an iron-based superconductor. <i>Science</i> , 2018 , 360, 182-186	33.3	290
96	MoTe ₂ : A Type-II Weyl Topological Metal. <i>Physical Review Letters</i> , 2016 , 117, 056805	7.4	286
95	Hourglass fermions. <i>Nature</i> , 2016 , 532, 189-94	50.4	244
94	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. <i>Physical Review Letters</i> , 2016 , 117, 236401	7.4	209
93	Effect of substrate temperature on the structural and optical properties of ZnO and Al-doped ZnO thin films prepared by dc magnetron sputtering. <i>Optics Communications</i> , 2009 , 282, 247-252	2	171

92	All Magic Angles in Twisted Bilayer Graphene are Topological. <i>Physical Review Letters</i> , 2019 , 123, 036401	7.4	157
91	Twisted Bilayer Graphene: A Phonon-Driven Superconductor. <i>Physical Review Letters</i> , 2019 , 122, 257002	7.4	147
90	Large linear magnetoresistance in Dirac semimetal Cd ₃ As ₂ with Fermi surfaces close to the Dirac points. <i>Physical Review B</i> , 2015 , 92,	3.3	139
89	Evidence of topological surface state in three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Scientific Reports</i> , 2014 , 4, 6106	4.9	131
88	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. <i>Science</i> , 2016 , 351, 1184-7	33.3	130
87	Topological nature of the FeSe _{0.5} Te _{0.5} superconductor. <i>Physical Review B</i> , 2015 , 92,	3.3	129
86	Topological crystalline Kondo insulator in mixed valence ytterbium borides. <i>Physical Review Letters</i> , 2014 , 112, 016403	7.4	123
85	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , 2017 , 13, 286-291	16.2	123
84	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , 2017 , 358, 772-776	33.3	121
83	Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides XTe ₂ (X=Mo,W). <i>Physical Review Letters</i> , 2019 , 123, 186401	7.4	116
82	Double crystallographic groups and their representations on the Bilbao Crystallographic Server. <i>Journal of Applied Crystallography</i> , 2017 , 50, 1457-1477	3.8	101
81	Landau level splitting in Cd ₃ As ₂ under high magnetic fields. <i>Nature Communications</i> , 2015 , 6, 7779	17.4	98
80	Multiple topological states in iron-based superconductors. <i>Nature Physics</i> , 2019 , 15, 41-47	16.2	96
79	Building blocks of topological quantum chemistry: Elementary band representations. <i>Physical Review B</i> , 2018 , 97,	3.3	90
78	Higher-Order Topology of the Axion Insulator EuIn ₂ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 256402	7.4	90
77	Experimental evidence of hourglass fermion in the candidate nonsymmorphic topological insulator KHgSb. <i>Science Advances</i> , 2017 , 3, e1602415	14.3	78
76	Axionic charge-density wave in the Weyl semimetal (TaSe) ₃ . <i>Nature</i> , 2019 , 575, 315-319	50.4	75
75	Topological Insulators From Group Cohomology. <i>Physical Review X</i> , 2016 , 6,	9.1	73

74	Wallpaper fermions and the nonsymmorphic Dirac insulator. <i>Science</i> , 2018 , 361, 246-251	33.3	73
73	Strong anisotropy of Dirac cones in SrMnBi ₂ and CaMnBi ₂ revealed by angle-resolved photoemission spectroscopy. <i>Scientific Reports</i> , 2014 , 4, 5385	4.9	71
72	Strong and fragile topological Dirac semimetals with higher-order Fermi arcs. <i>Nature Communications</i> , 2020 , 11, 627	17.4	68
71	Topology of Disconnected Elementary Band Representations. <i>Physical Review Letters</i> , 2018 , 120, 266401	7.4	67
70	Graph theory data for topological quantum chemistry. <i>Physical Review E</i> , 2017 , 96, 023310	2.4	65
69	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , 2016 , 7, 12297	17.4	64
68	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,	3.3	61
67	Chiral anomaly factory: Creating Weyl fermions with a magnetic field. <i>Physical Review B</i> , 2017 , 95,	3.3	56
66	Irvsp: To obtain irreducible representations of electronic states in the VASP. <i>Computer Physics Communications</i> , 2021 , 261, 107760	4.2	52
65	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	48
64	Interaction-induced quantum anomalous Hall phase in (111) bilayer of LaCoO ₃ . <i>Physical Review B</i> , 2015 , 91,	3.3	40
63	Band connectivity for topological quantum chemistry: Band structures as a graph theory problem. <i>Physical Review B</i> , 2018 , 97,	3.3	37
62	Topological insulator to Dirac semimetal transition driven by sign change of spin-orbit coupling in thallium nitride. <i>Physical Review B</i> , 2014 , 90,	3.3	35
61	Temperature-driven topological transition in 1TSMoTe ₂ . <i>Npj Quantum Materials</i> , 2018 , 3,	5	29
60	Topological phases in the TaSe ₃ compound. <i>Physical Review B</i> , 2018 , 98,	3.3	27
59	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB ₆ . <i>Physical Review Letters</i> , 2020 , 124, 076403	7.4	25
58	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	2.3	23
57	Magnetic topological insulator MnBi ₆ Te ₁₀ with a zero-field ferromagnetic state and gapped Dirac surface states. <i>Physical Review B</i> , 2020 , 102,	3.3	23

56	A charge-density-wave topological semimetal. <i>Nature Physics</i> , 2021 , 17, 381-387	16.2	22
55	Electronic structures and topological properties in nickelates NiO. <i>National Science Review</i> , 2021 , 8, nwab288	2.8	21
54	Topological Dirac semimetal phase in Pd and Pt oxides. <i>Physical Review B</i> , 2017 , 95,	3.3	20
53	Symmetry-enforced Weyl phonons. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	20
52	Magnetic and electronic properties of the Cu-substituted Weyl semimetal candidate ZrCoSn. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 075701	1.8	18
51	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016 , 18, 105003	2.9	17
50	Sixfold excitations in electrides. <i>Physical Review Research</i> , 2021 , 3,	3.9	17
49	Chiral fermion reversal in chiral crystals. <i>Nature Communications</i> , 2019 , 10, 5505	17.4	17
48	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb. <i>Advanced Materials</i> , 2020 , 32, e1906046	24	15
47	Structural phase transition associated with van Hove singularity in 5d transition metal compound IrTe ₂ . <i>New Journal of Physics</i> , 2014 , 16, 123038	2.9	15
46	Mapping Dirac fermions in the intrinsic antiferromagnetic topological insulators (MnBi ₂ Te ₄)(Bi ₂ Te ₃) _n (n=0,1). <i>Physical Review B</i> , 2020 , 102,	3.3	15
45	Electronic structure, Dirac points and Fermi arc surface states in three-dimensional Dirac semimetal Na ₃ Bi from angle-resolved photoemission spectroscopy. <i>Chinese Physics B</i> , 2016 , 25, 077101	1.2	14
44	Ferromagnetism and antiferromagnetism in hydrogenated g-C ₃ N ₄ : A first-principles study. <i>Physica B: Condensed Matter</i> , 2013 , 421, 46-49	2.8	13
43	Angle-resolved photoemission observation of Mn-pnictide hybridization and negligible band structure renormalization in BaMn ₂ As ₂ and BaMn ₂ Sb ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	12
42	Topological materials discovery from crystal symmetry. <i>Nature Reviews Materials</i> ,	73.3	10
41	Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe ₃ . <i>Matter</i> , 2020 , 3, 2055-2065	12.7	10
40	Charge-four Weyl phonons. <i>Physical Review B</i> , 2021 , 103,	3.3	10
39	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020 , 102,	3.3	9

38	Superconductivity and Charge Density Wave in Iodine-Doped CuIr_2Te_4 . <i>Chinese Physics Letters</i> , 2021 , 38, 037401	1.8	9
37	A gap-protected zero-Hall effect state in the quantum limit of the non-symmorphic metal KHgSb . <i>Nature Materials</i> , 2019 , 18, 443-447	27	8
36	Application of topological quantum chemistry in electrides. <i>Physical Review B</i> , 2021 , 103,	3.3	8
35	Crystal growth and stoichiometry-dependent properties of the ferromagnetic Weyl semimetal ZrCoSn . <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 225702	1.8	7
34	Topological electronic states in HfRuP family superconductors. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	7
33	Determination of the optimal thickness of inserted LiF in bilayer organic light-emitting devices. <i>Solid State Communications</i> , 2007 , 144, 445-449	1.6	6
32	Topological crystalline insulators with C_2 rotation anomaly. <i>Physical Review Research</i> , 2019 , 1,	3.9	6
31	Topological electronic structure in the antiferromagnet HoSbTe . <i>Physical Review B</i> , 2020 , 102,	3.3	6
30	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. <i>Npj Quantum Materials</i> , 2020 , 5,	5	6
29	Quantum spin Hall effect in $\text{Ta}_2\text{M}_3\text{Te}_5$ ($M=\text{Pd}, \text{Ni}$). <i>Physical Review B</i> , 2021 , 103,	3.3	6
28	High-throughput screening for Weyl semimetals with S_4 symmetry. <i>Science Bulletin</i> , 2021 , 66, 667-675	10.6	6
27	Weyl semimetals with S_4 symmetry. <i>Physical Review B</i> , 2020 , 101,	3.3	5
26	Beam dynamics, RF measurement, and commissioning of a CW heavy ion IH-DTL. <i>Nuclear Science and Techniques/Hewuli</i> , 2018 , 29, 1	2.1	5
25	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
24	Realization of low-energy type-II Dirac fermions in $(\text{Ir}_{1-x}\text{Pt}_x)\text{Te}_2$ superconductors. <i>Chinese Physics B</i> , 2019 , 28, 037103	1.2	4
23	Layer construction of topological crystalline insulator LaSbTe . <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	4
22	Quasiparticle interference of Fermi arc states in the type-II Weyl semimetal candidate WTe_2 . <i>Physical Review B</i> , 2018 , 97,	3.3	4
21	Unconventional Materials: the mismatch between electronic charge centers and atomic positions. <i>Science Bulletin</i> , 2022 ,	10.6	4

20	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl ₄ . <i>Npj Quantum Materials</i> , 2021 , 6,	5	4
19	Surface charge induced Dirac band splitting in a charge density wave material (TaSe ₄) ₂ I. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
18	Composite Icosahedron/Cube Endohedral Clusters in Rh ₂ Cd ₁₅ . <i>Inorganic Chemistry</i> , 2016 , 55, 7605-9	5.1	3
17	Time-Reversal Symmetry Breaking Driven Topological Phase Transition in EuB ₆ . <i>Physical Review X</i> , 2021 , 11,	9.1	3
16	Pressure-induced a partial disorder and superconductivity in quasi-one-dimensional Weyl semimetal (NbSe ₄) ₂ I. <i>Materials Today Physics</i> , 2021 , 21, 100509	8	3
15	Noninterceptive transverse emittance measurements using BPM for Chinese ADS R&D project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 816, 171-175	1.2	2
14	Physics design of the superconducting section of the CiADS linac. <i>International Journal of Modern Physics A</i> , 2019 , 34, 1950178	1.2	2
13	Surface State Bands in Superconducting (Pt x Ir 1-x)Te ₂ . <i>Chinese Physics Letters</i> , 2015 , 32, 077402	1.8	1
12	Glide-resolved photoemission spectroscopy: Measuring topological invariants in nonsymmorphic space groups. <i>Physical Review B</i> , 2020 , 101,	3.3	1
11	Influence of the solenoid magnetic field on the self-modulation mechanism. <i>Laser and Particle Beams</i> , 2020 , 38, 135-140	0.9	1
10	Topological insulators in the NaCaBi family with large spin-orbit coupling gaps. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
9	Discovery of [Formula: see text] rotation anomaly in topological crystalline insulator SrPb. <i>Nature Communications</i> , 2021 , 12, 2052	17.4	1
8	BaHgSn: A Dirac semimetal with surface hourglass fermions. <i>Physical Review B</i> , 2020 , 101,	3.3	1
7	Fabrication and cold test of prototype of spatially periodic radio frequency quadrupole focusing linac. <i>Nuclear Science and Techniques/Hewuli</i> , 2021 , 32, 1	2.1	1
6	Observation of topological edge states in the quantum spin Hall insulator Ta ₂ Pd ₃ Te ₅ . <i>Physical Review B</i> , 2021 , 104,	3.3	1
5	Research of beam matching on RFQ for CADS proton linac. <i>International Journal of Modern Physics E</i> , 2021 , 30, 2150027	0.7	0
4	Physics design of the CiADS MEBT. <i>International Journal of Modern Physics A</i> , 2021 , 36, 2150127	1.2	0
3	Unprotected quadratic band crossing points and quantum anomalous Hall effect in FeB ₂ monolayer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, 1	3.6	0

- 2 Measurement of beam steering and RF defocusing effect for a quarter-wave resonator. *International Journal of Modern Physics E*, **2019**, 28, 1950019 0.7
- 1 The wakefield and energy loss study of micro-bunch trains passing through plasmas. *Contributions To Plasma Physics*, **2021**, 61, e202000187 1.4