

Zhi-Jun Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Unconventional Materials: the mismatch between electronic charge centers and atomic positions. <i>Science Bulletin</i> , 2022 ,	10.6	4
108	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
107	Superconductivity and Charge Density Wave in Iodine-Doped CuIr ₂ Te ₄ . <i>Chinese Physics Letters</i> , 2021 , 38, 037401	1.8	9
106	Sixfold excitations in electrides. <i>Physical Review Research</i> , 2021 , 3,	3.9	17
105	Quantum spin Hall effect in Ta ₂ M ₃ Te ₅ (M=Pd,Ni). <i>Physical Review B</i> , 2021 , 103,	3.3	6
104	Topological insulators in the NaCaBi family with large spin-orbit coupling gaps. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
103	The wakefield and energy loss study of micro-bunch trains passing through plasmas. <i>Contributions To Plasma Physics</i> , 2021 , 61, e202000187	1.4	
102	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl ₄ . <i>Npj Quantum Materials</i> , 2021 , 6,	5	4
101	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
100	Discovery of [Formula: see text] rotation anomaly in topological crystalline insulator SrPb. <i>Nature Communications</i> , 2021 , 12, 2052	17.4	1
99	Charge-four Weyl phonons. <i>Physical Review B</i> , 2021 , 103,	3.3	10
98	High-throughput screening for Weyl semimetals with S ₄ symmetry. <i>Science Bulletin</i> , 2021 , 66, 667-675	10.6	6
97	Research of beam matching on RFQ for CADS proton linac. <i>International Journal of Modern Physics E</i> , 2021 , 30, 2150027	0.7	0
96	Time-Reversal Symmetry Breaking Driven Topological Phase Transition in EuB ₆ . <i>Physical Review X</i> , 2021 , 11,	9.1	3
95	Application of topological quantum chemistry in electrides. <i>Physical Review B</i> , 2021 , 103,	3.3	8
94	Physics design of the CiADS MEBT. <i>International Journal of Modern Physics A</i> , 2021 , 36, 2150127	1.2	0
93	Electronic structures and topological properties in nickelates NiO. <i>National Science Review</i> , 2021 , 8, nwaab218	2.8	21

92	Irvsp: To obtain irreducible representations of electronic states in the VASP. <i>Computer Physics Communications</i> , 2021 , 261, 107760	4.2	52
91	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
90	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
89	A charge-density-wave topological semimetal. <i>Nature Physics</i> , 2021 , 17, 381-387	16.2	22
88	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
87	Superconductivity and Fermi-surface nesting in the candidate Dirac semimetal NbC. <i>Physical Review B</i> , 2020 , 102,	3.3	9
86	Layer construction of topological crystalline insulator LaSbTe. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	4
85	Glide-resolved photoemission spectroscopy: Measuring topological invariants in nonsymmorphic space groups. <i>Physical Review B</i> , 2020 , 101,	3.3	1
84	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb. <i>Advanced Materials</i> , 2020 , 32, e1906046	24	15
83	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB ₆ . <i>Physical Review Letters</i> , 2020 , 124, 076403	7.4	25
82	Strong and fragile topological Dirac semimetals with higher-order Fermi arcs. <i>Nature Communications</i> , 2020 , 11, 627	17.4	68
81	Weyl semimetals with S ₄ symmetry. <i>Physical Review B</i> , 2020 , 101,	3.3	5
80	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
79	Influence of the solenoid magnetic field on the self-modulation mechanism. <i>Laser and Particle Beams</i> , 2020 , 38, 135-140	0.9	1
78	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
77	Topological electronic structure in the antiferromagnet HoSbTe. <i>Physical Review B</i> , 2020 , 102,	3.3	6
76	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
75	Symmetry-enforced Weyl phonons. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	20

74	Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe3. <i>Matter</i> , 2020 , 3, 2055-2065	12.7	10
73	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. <i>Npj Quantum Materials</i> , 2020 , 5,	5	6
72	BaHgSn: A Dirac semimetal with surface hourglass fermions. <i>Physical Review B</i> , 2020 , 101,	3.3	1
71	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
70	Measurement of beam steering and RF defocusing effect for a quarter-wave resonator. <i>International Journal of Modern Physics E</i> , 2019 , 28, 1950019	0.7	
69	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
68	Realization of low-energy type-II Dirac fermions in (Ir _{1-x} Pt _x)Te ₂ superconductors. <i>Chinese Physics B</i> , 2019 , 28, 037103	1.2	4
67	All Magic Angles in Twisted Bilayer Graphene are Topological. <i>Physical Review Letters</i> , 2019 , 123, 036401	7.4	157
66	Higher-Order Topology of the Axion Insulator EuIn ₂ As ₂ . <i>Physical Review Letters</i> , 2019 , 122, 256402	7.4	90
65	Twisted Bilayer Graphene: A Phonon-Driven Superconductor. <i>Physical Review Letters</i> , 2019 , 122, 257002	7.4	147
64	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
63	Topological crystalline insulators with C ₂ rotation anomaly. <i>Physical Review Research</i> , 2019 , 1,	3.9	6
62	A complete catalogue of high-quality topological materials. <i>Nature</i> , 2019 , 566, 480-485	50.4	390
61	Chiral fermion reversal in chiral crystals. <i>Nature Communications</i> , 2019 , 10, 5505	17.4	17
60	Physics design of the superconducting section of the CiADS linac. <i>International Journal of Modern Physics A</i> , 2019 , 34, 1950178	1.2	2
59	Topological electronic states in HfRuP family superconductors. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	7
58	Axionic charge-density wave in the Weyl semimetal (TaSe) ₃ . <i>Nature</i> , 2019 , 575, 315-319	50.4	75
57	Multiple topological states in iron-based superconductors. <i>Nature Physics</i> , 2019 , 15, 41-47	16.2	96

56	Observation of topological superconductivity on the surface of an iron-based superconductor. <i>Science</i> , 2018 , 360, 182-186	33.3	290
55	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
54	Band connectivity for topological quantum chemistry: Band structures as a graph theory problem. <i>Physical Review B</i> , 2018 , 97,	3.3	37
53	Building blocks of topological quantum chemistry: Elementary band representations. <i>Physical Review B</i> , 2018 , 97,	3.3	90
52	Temperature-driven topological transition in 1TSMoTe ₂ . <i>Npj Quantum Materials</i> , 2018 , 3,	5	29
51	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
50	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
49	Higher-Order Topology in Bismuth. <i>Nature Physics</i> , 2018 , 14, 918-924	16.2	328
48	Wallpaper fermions and the nonsymmorphic Dirac insulator. <i>Science</i> , 2018 , 361, 246-251	33.3	73
47	Topological phases in the TaSe ₃ compound. <i>Physical Review B</i> , 2018 , 98,	3.3	27
46	Higher-order topological insulators. <i>Science Advances</i> , 2018 , 4, eaat0346	14.3	558
45	Topology of Disconnected Elementary Band Representations. <i>Physical Review Letters</i> , 2018 , 120, 266401	7.4	67
44	Experimental evidence of hourglass fermion in the candidate nonsymmorphic topological insulator KHgSb. <i>Science Advances</i> , 2017 , 3, e1602415	14.3	78
43	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
42	Topological Dirac semimetal phase in Pd and Pt oxides. <i>Physical Review B</i> , 2017 , 95,	3.3	20
41	Double crystallographic groups and their representations on the Bilbao Crystallographic Server. <i>Journal of Applied Crystallography</i> , 2017 , 50, 1457-1477	3.8	101
40	Distinguishing a Majorana zero mode using spin-resolved measurements. <i>Science</i> , 2017 , 358, 772-776	33.3	121
39	Graph theory data for topological quantum chemistry. <i>Physical Review E</i> , 2017 , 96, 023310	2.4	65

38	Topological quantum chemistry. <i>Nature</i> , 2017 , 547, 298-305	50.4	537
37	Chiral anomaly factory: Creating Weyl fermions with a magnetic field. <i>Physical Review B</i> , 2017 , 95,	3.3	56
36	High-resolution studies of the Majorana atomic chain platform. <i>Nature Physics</i> , 2017 , 13, 286-291	16.2	123
35	Composite Icosahedron/Cube Endohedral Clusters in Rh ₂ Cd ₁₅ . <i>Inorganic Chemistry</i> , 2016 , 55, 7605-9	5.1	3
34	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
33	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. <i>Physical Review B</i> , 2016 , 93,	3.3	48
32	Topological Insulators from Group Cohomology. <i>Physical Review X</i> , 2016 , 6,	9.1	73
31	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. <i>Science</i> , 2016 , 353, aaf5037	33.3	601
30	Imaging electronic states on topological semimetals using scanning tunneling microscopy. <i>New Journal of Physics</i> , 2016 , 18, 105003	2.9	17
29	The chiral anomaly and thermopower of Weyl fermions in the half-Heusler GdPtBi. <i>Nature Materials</i> , 2016 , 15, 1161-1165	27	301
28	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
27	Quasiparticle interference of the Fermi arcs and surface-bulk connectivity of a Weyl semimetal. <i>Science</i> , 2016 , 351, 1184-7	33.3	130
26	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. <i>Physical Review Letters</i> , 2016 , 117, 236401	7.4	209
25	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
24	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , 2016 , 7, 12297	17.4	64
23	Hourglass fermions. <i>Nature</i> , 2016 , 532, 189-94	50.4	244
22	MoTe ₂ : A Type-II Weyl Topological Metal. <i>Physical Review Letters</i> , 2016 , 117, 056805	7.4	286
21	Surface State Bands in Superconducting (Pt x Ir _{1-x})Te ₂ . <i>Chinese Physics Letters</i> , 2015 , 32, 077402	1.8	1

20	Landau level splitting in Cd ₃ As ₂ under high magnetic fields. <i>Nature Communications</i> , 2015 , 6, 7779	17.4	98
19	Type-II Weyl semimetals. <i>Nature</i> , 2015 , 527, 495-8	50.4	1482
18	Interaction-induced quantum anomalous Hall phase in (111) bilayer of LaCoO ₃ . <i>Physical Review B</i> , 2015 , 91,	3.3	40
17	Topological nature of the FeSe _{0.5} Te _{0.5} superconductor. <i>Physical Review B</i> , 2015 , 92,	3.3	129
16	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
15	Evidence of topological surface state in three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Scientific Reports</i> , 2014 , 4, 6106	4.9	131
14	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . <i>Nature Materials</i> , 2014 , 13, 677-81	27	1010
13	Topological crystalline Kondo insulator in mixed valence ytterbium borides. <i>Physical Review Letters</i> , 2014 , 112, 016403	7.4	123
12	Discovery of a three-dimensional topological Dirac semimetal, Na ₃ Bi. <i>Science</i> , 2014 , 343, 864-7	33.3	1516
11	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
10	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
9	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
8	Three-dimensional Dirac semimetal and quantum transport in Cd ₃ As ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	1094
7	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
6	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
5	Dirac semimetal and topological phase transitions in A ₃ Bi (A=Na, K, Rb). <i>Physical Review B</i> , 2012 , 85,	3.3	1244
4	Chern semimetal and the quantized anomalous Hall effect in HgCr ₂ Se ₄ . <i>Physical Review Letters</i> , 2011 , 107, 186806	7.4	960
3	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

2	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
1	Topological materials discovery from crystal symmetry. <i>Nature Reviews Materials</i> ,	73.3	10