Zhi-Jun Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

		44444	24511
115	21,327	50	114
papers	citations	h-index	g-index

124	124	124	11507
all docs	docs citations	times ranked	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<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>A</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Bi (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 652 Td (display="in	1.1	1,529
4	Three-dimensional Dirac semimetal and quantum transport in Cd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	1,357
5	A stable three-dimensional topological Dirac semimetal Cd3As2. Nature Materials, 2014, 13, 677-681.	13.3	1,242
6	Chern Semimetal and the Quantized Anomalous Hall Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>HgCr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mi	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-HeuslerÂGdPtBi. Nature Materials, 2016, 15, 1161-1165.	13.3	436
14	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></ A Type-II Weyl Topological Metal. Physical Review Letters, 2016, 117, 056805.	2.9	351
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

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19	Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>X</mml:mi><mml:mrow><mml:msub><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mrow><mml:mn		

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37	Experimental evidence of hourglass fermion in the candidate nonsymmorphic topological insulator KHgSb. Science Advances, 2017, 3, e1602415.	4.7	121
38	Strong Anisotropy of Dirac Cones in SrMnBi2 and CaMnBi2 Revealed by Angle-Resolved Photoemission Spectroscopy. Scientific Reports, 2014, 4, 5385.	1.6	105
39	Two-dimensional chiral topological superconductivity in Shiba lattices. Nature Communications, 2016, 7, 12297.	5.8	105
40	Topology of Disconnected Elementary Band Representations. Physical Review Letters, 2018, 120, 266401.	2.9	102
41	Topological Insulators from Group Cohomology. Physical Review X, 2016, 6, .	2.8	100
42	Disconnected elementary band representations, fragile topology, and Wilson loops as topological indices: An example on the triangular lattice. Physical Review B, 2019, 99, .	1.1	99
43	Chiral anomaly factory: Creating Weyl fermions with a magnetic field. Physical Review B, 2017, 95, .	1.1	94
44	Graph theory data for topological quantum chemistry. Physical Review E, 2017, 96, 023310.	0.8	84
45	A charge-density-wave topological semimetal. Nature Physics, 2021, 17, 381-387.	6.5	76
46	Symmetry-enforced Weyl phonons. Npj Computational Materials, 2020, 6, .	3.5	69
47	Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB6. Physical Review Letters, 2020, 124, 076403.	2.9	65
48	Topological materials discovery from crystal symmetry. Nature Reviews Materials, 2022, 7, 196-216.	23.3	65
49	Charge-four Weyl phonons. Physical Review B, 2021, 103, .	1.1	59
50	Universal signatures of Fermi arcs in quasiparticle interference on the surface of Weyl semimetals. Physical Review B, 2016, 93, .	1.1	54
51	Magnetic topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">MnBi</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>10</mml:mn></mml:msub></mml:mrow></mml:math> with a zero-field ferromagnetic state and gapped Dirac surface states. Physical Review B, 2020, 102, .	1.1	50
52	Band connectivity for topological quantum chemistry: Band structures as a graph theory problem. Physical Review B, 2018, 97, .	1.1	49
53	Interaction-induced quantum anomalous Hall phase in (111) bilayer of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2015, 91, .	1.1	47
54	Topological phases in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaSe</mml:mi><mml:mn>3</mml:mn></mml:msub> compound. Physical Review B, 2018, 98, .	1.1	44

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55	Topological insulator to Dirac semimetal transition driven by sign change of spin-orbit coupling in thallium nitride. Physical Review B, 2014, 90, .	1.1	43
56	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, .	1.8	38
57	Sixfold excitations in electrides. Physical Review Research, 2021, 3, .	1.3	37
58	Temperature-driven topological transition in 1T'-MoTe2. Npj Quantum Materials, 2018, 3, .	1.8	36
59	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb₂. Advanced Materials, 2020, 32, e1906046.	11.1	36
60	Chiral fermion reversal in chiral crystals. Nature Communications, 2019, 10, 5505.	5.8	35
61	Electronic structures and topological properties in nickelatesLnn+1NinO2n+2. National Science Review, 2021, 8, nwaa218.	4.6	33
62	Unconventional materials: the mismatch between electronic charge centers and atomic positions. Science Bulletin, 2022, 67, 598-608.	4.3	32
63	First-principles prediction of an intrinsic half-metallic graphitic hydrogenated carbon nitride. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 347-350.	0.9	30
64	Mapping Dirac fermions in the intrinsic antiferromagnetic topological insulators <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 ZrCo₂Sn. 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 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaMn</mml:mi><mml:mn>2</mml:mn></ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaMn</mml:mi><mml:mn>2</mml:mn><m	1.1	16
78	High-throughput screening for Weyl semimetals with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si89.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:m symmetry. Science Bulletin, 2021, 66, 667-675.	4.3	16
79	Magnetic and electronic properties of a topological nodal line semimetal candidate: HoSbTe. Physical Review Materials, 2020, 4, .	0.9	16
80	Topological crystalline insulators with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>C</mml:mi><mml:mn>2</mml:mn></ rotation anomaly. Physical Review Research, 2019, 1, .	1.3	16
81	Superconductivity and Charge Density Wave in Iodine-Doped CuIr₂Te₄. Chinese Physics Letters, 2021, 38, 037401.	1.3	15
82	Ferromagnetism and antiferromagnetism in hydrogenated g-C3N4: A first-principles study. Physica B: Condensed Matter, 2013, 421, 46-49.	1.3	14
83	Quasiparticle interference of Fermi arc states in the type-II Weyl semimetal candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	14
84	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
85	Time-Reversal Symmetry Breaking Driven Topological Phase Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>EuB</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></ Physical Review X, 2021, 11, .	2.8	14
86	Surface charge induced Dirac band splitting in a charge density wave material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn mathvariant="normal">I</mml:mi></mml:mrow></mml:math>. Physical Review Research, 2021, 3, .	1.3	13
87	Pressure-induced a partial disorder and superconductivity in quasi-one-dimensional Weyl semimetal (NbSe4)2I. Materials Today Physics, 2021, 21, 100509.	2.9	13
88	Layer construction of topological crystalline insulator LaSbTe. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	12
89	Weyl semimetals with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>S</mml:mi><mml:mn>4</mml:mn></ symmetry. Physical Review B, 2020, 101, .	1.1	10
90	Observation of topological edge states in the quantum spin Hall insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ta</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review B, 2021, 104, .	1.1	10

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91	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe3. Nature Materials, 2022, 21, 423-429.	13.3	8
92	Crystal growth and stoichiometry-dependent properties of the ferromagnetic Weyl semimetal ZrCo2â‚xSn. 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 BaAl4. 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 Rh2Cd15. Inorganic Chemistry, 2016, 55, 7605-7609.	1.9	6
99	Realization of low-energy type-II Dirac fermions in (Ir _{1â‚“ x} Pt _x) Tj ETQq1 1 0.784314 rgBT	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 $${hat{oldsymbol{C}}}_2$$ 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 FeB2 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 _{1â‚“})Te ₂. 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 microâ€bunch trains passing through plasmas. Contributions To Plasma Physics, 2021, 61, e202000187.	0.5	0
114	Ferromagnetic and ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:msup><mml:mi>d</mml:mi><mml:mn insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>5</mml:mn></mml:m Physical Review Materials, 2021, 5, .	0.9	0
115	Development and cold-test of an RFQ-DTL coupled cavity. International Journal of Modern Physics A, 0, , .	0.5	0