

Haijun Zhang

List of Publications by Year in descending order

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83
papers

20,513
citations

53794

45
h-index

60623

81
g-index

86
all docs

86
docs citations

86
times ranked

14422
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence for dissipationless transport of the chiral edge state of the high-field Chern insulator in MnBi_2Te_4 nanodevices. <i>Physical Review B</i> , 2022, 105, .	3.2	15
2	Coexistence of pressure-induced superconductivity and topological surface states in elementary substance Sb. <i>Physical Review Materials</i> , 2022, 6, .	2.4	1
3	Pressure-Driven Ne-Bearing Polynitrides with Ultrahigh Energy Density. <i>Chinese Physics Letters</i> , 2022, 39, 056102.	3.3	7
4	Evolution of surface states of antiferromagnetic topological insulator MnBi_2Te_4 with tuning the surface magnetization. <i>New Journal of Physics</i> , 2022, 24, 073034.	2.9	7
5	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , 2021, 12, 79.	12.8	31
6	Pressure-stabilized GdN_6 with an armchair antiarmchair structure as a high energy density material. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16751-16758.	10.3	18
7	Evidence of topological nodal lines and surface states in the centrosymmetric superconductor SnTaS_2 . <i>Physical Review B</i> , 2021, 103, .	3.2	15
8	Magnetism-induced ideal Weyl state in bulk van der Waals crystal MnSb_2Te_4 . <i>Applied Physics Letters</i> , 2021, 118, .	3.3	14
9	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS_2 . <i>Nature Communications</i> , 2021, 12, 2874.	12.8	43
10	Electrostatic and electrochemical charging mechanisms for electric-double-layer gating media based on a crystalline LaF_3 solid electrolyte. <i>APL Materials</i> , 2021, 9, .	5.1	2
11	Nonlinear Hall Effect in Antiferromagnetic Half-Heusler Materials. <i>Chinese Physics Letters</i> , 2021, 38, 057302.	3.3	3
12	A Programmable $k \cdot p$ Hamiltonian Method and Application to Magnetic Topological Insulator MnBi_2Te_4 . <i>Chinese Physics Letters</i> , 2021, 38, 077105.	3.3	3
13	Tunable dynamical magnetoelectric effect in antiferromagnetic topological insulator MnBi_2Te_4 films. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	14
14	Coexistence of ferromagnetism and topology by charge carrier engineering in the intrinsic magnetic topological insulator MnBi_2Te_4 . <i>Physical Review B</i> , 2021, 104, .	3.2	15
15	Growth and characterization of the dynamical axion insulator candidate MnBi_2Te_4 with intrinsic antiferromagnetism. <i>Physical Review B</i> , 2021, 104, .	3.2	15
16	Nonlinear level attraction of cavity axion polariton in antiferromagnetic topological insulator. <i>Physical Review B</i> , 2021, 104, .	3.2	9
17	Experimental Observation of the Gate-Controlled Reversal of the Anomalous Hall Effect in the Intrinsic Magnetic Topological Insulator MnBi_2Te_4 Device. <i>Nano Letters</i> , 2020, 20, 709-714.	9.1	60
18	Large magnetoresistance in topological insulator candidate TaSe_3 . <i>AIP Advances</i> , 2020, 10, .	1.3	9

#	ARTICLE	IF	CITATIONS
19	Electric Field Tuning of Interlayer Coupling in Noncentrosymmetric 3R-MoS ₂ with an Electric Double Layer Interface. ACS Applied Materials & Interfaces, 2020, 12, 46900-46907.	8.0	10
20	Band engineering in epitaxial monolayer transition metal dichalcogenides alloy Mo _{1-x} W _x Se ₂ thin films. Applied Physics Letters, 2020, 116, .	3.3	8
21	The mechanism exploration for zero-field ferromagnetism in intrinsic topological insulator MnBi ₂ Te ₄ by Bi ₂ Te ₃ intercalations. Applied Physics Letters, 2020, 116, 221902.	3.3	17
22	Large Dynamical Axion Field in Topological Antiferromagnetic Insulator Mn ₂ Bi ₂ Te ₅ . Chinese Physics Letters, 2020, 37, 077304.	3.3	42
23	Dynamical axion state with hidden pseudospin Chern numbers in $MnBi_2Te_4$ -based heterostructures. Physical Review B, 2020, 101, .	3.3	11
24	Photonic non-Hermitian skin effect and non-Bloch bulk-boundary correspondence. Physical Review Research, 2020, 2, .	3.6	116
25	Evidence of anisotropic Majorana bound states in 2M-WS ₂ . Nature Physics, 2019, 15, 1046-1051.	16.7	104
26	Hybrid Acoustic Topological Insulator in Three Dimensions. Physical Review Letters, 2019, 123, 195503.	7.8	26
27	Intrinsic magnetic topological insulator phases in the Sb doped MnBi ₂ Te ₄ bulks and thin flakes. Nature Communications, 2019, 10, 4469.	12.8	212
28	Discovery of Superconductivity in 2M WS ₂ with Possible Topological Surface States. Advanced Materials, 2019, 31, e1901942.	21.0	102
29	Topological Axion States in the Magnetic Insulator $MnBi_2Te_4$ with the Quantized Magnetoelectric Effect. Physical Review Letters, 2019, 122, 206401.	7.8	554
30	Observation of Anomalous $\tilde{\epsilon}$ Modes in Photonic Floquet Engineering. Physical Review Letters, 2019, 122, 173901.	7.8	98
31	Non-Hermitian nodal-line semimetals with an anomalous bulk-boundary correspondence. Physical Review B, 2019, 99, .	3.2	118
32	Strain-Engineered Nonlinear Hall Effect in HgTe. Spin, 2019, 09, .	1.3	6
33	PT -symmetry-protected Dirac states in strain-induced hidden Mo_2Te_3 . Physical Review Letters, 2019, 122, 173901.	3.2	9
34	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu_2S . Physical Review B, 2019, 100, .	3.2	3
35	Topological insulators from the perspective of first-principles calculations. , 2019, , 205-214.		0
36	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in $(Bi_{1-x}In_x)_2Se_3$ Nanodevices. ACS Nano, 2018, 12, 1537-1543.	14.6	13

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37	Observation of Coulomb gap in the quantum spin Hall candidate single-layer 1T WTe_2 . Nature Communications, 2018, 9, 4071.	12.8	60
38	Three-dimensional topological acoustic crystals with pseudospin-valley coupled saddle surface states. Nature Communications, 2018, 9, 4555.	12.8	53
39	Engineering topological phases in the Luttinger semimetal In_2Sb . Physical Review B, 2018, 97, .	3.2	47
40	Helicity dependent photocurrent in electrically gated $(\text{Bi}_2\text{Sb})_2\text{Te}_3$ thin films. Nature Communications, 2017, 8, 1037.	12.8	66
41	Strain-induced quantum topological phase transitions in Na_3Bi . Physical Review B, 2017, 96, .	3.2	37
42	Revealing Fermi arcs and Weyl nodes in MoTe_2 by quasiparticle interference mapping. Physical Review B, 2017, 95, .	3.2	21
43	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe_2 . Nature Physics, 2016, 12, 1105-1110.	16.7	663
44	Classification of stable Dirac and Weyl semimetals with reflection and rotational symmetry. Physical Review B, 2016, 93, .	3.2	60
45	Semiconductor-topological insulator transition of two-dimensional SbAs induced by biaxial tensile strain. Physical Review B, 2016, 93, .	3.2	118
46	Ideal Weyl Semimetals in the Chalcopyrites Cu_2TiSe_3 . Physical Review Letters, 2016, 116, 226801.	7.8	116
47	Symmetry-protected ideal Weyl semimetal in HgTe -class materials. Nature Communications, 2016, 7, 11136.	12.8	206
48	Predicting a new phase (Ta_2S_2) of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. Nanoscale, 2016, 8, 4969-4975.	5.6	50
49	Disentangling the magnetoelectric and thermoelectric transport in topological insulator thin films. Physical Review B, 2015, 91, .	3.2	32
50	Structural transition and amorphization in compressed In_2Sb . Physical Review B, 2015, 91, .	3.2	14
51	Pressure induced metallization with absence of structural transition in layered molybdenum diselenide. Nature Communications, 2015, 6, 7312.	12.8	193
52	High-precision realization of robust quantum anomalous Hall state in a hard ferromagnetic topological insulator. Nature Materials, 2015, 14, 473-477.	27.5	765
53	Quantum spin hall insulators in strain-modified arsenene. Nanoscale, 2015, 7, 19152-19159.	5.6	151
54	Study on a negative hydrogen ion source with hot cathode arc discharge. Review of Scientific Instruments, 2014, 85, 02B120.	1.3	1

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55	Quantum Spin Hall and Quantum Anomalous Hall States Realized in Junction Quantum Wells. Physical Review Letters, 2014, 112, .	7.8	46
56	Topological States in Ferromagnetic CdO/EuO Superlattices and Quantum Wells. Physical Review Letters, 2014, 112, 096804.	7.8	70
57	Quantum Anomalous Hall Effect in Magnetically Doped InAs/GaSb Quantum Wells. Physical Review Letters, 2014, 113, 147201.	7.8	66
58	Generation and electric control of spin-valley-coupled circular photogalvanic current in WSe ₂ . Nature Nanotechnology, 2014, 9, 851-857.	31.5	278
59	Spin-Orbital Texture in Topological Insulators. Physical Review Letters, 2013, 111, 066801.	7.8	120
60	Pressure-induced structural transitions and metallization in Ag ₂ Te. Physical Review B, 2013, 88, .	3.2	22
61	Anomalous Edge Transport in the Quantum Anomalous Hall State. Physical Review Letters, 2013, 111, 086803.	7.8	78
62	Quantum Anomalous Hall Effect with Higher Plateaus. Physical Review Letters, 2013, 111, 136801.	7.8	137
63	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. Nature Physics, 2013, 9, 704-708.	16.7	72
64	Large-Gap Quantum Spin Hall Insulators in Tin Films. Physical Review Letters, 2013, 111, 136804.	7.8	1,140
65	Topological insulators from the perspective of first-principles calculations. Physica Status Solidi - Rapid Research Letters, 2013, 7, 72-81.	2.4	70
66	Actinide Topological Insulator Materials with Strong Interaction. Science, 2012, 335, 1464-1466.	12.6	85
67	Topological Insulators from a Chemist's Perspective. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1641-1641.	1.2	0
68	Topological Insulators from a Chemist's Perspective. Angewandte Chemie - International Edition, 2012, 51, 7221-7225.	13.8	91
69	Half-metallic surface states and topological superconductivity in NaCoO ₂ from first principles. Physical Review B, 2011, 84, .	3.2	28
70	Topological Insulators in Ternary Compounds with a Honeycomb Lattice. Physical Review Letters, 2011, 106, 156402.	7.8	89
71	Rapid Surface Oxidation as a Source of Surface Degradation Factor for Bi ₂ Se ₃ . ACS Nano, 2011, 5, 4698-4703.	14.6	320
72	On the Munn-Silbey Approach to Polaron Transport with Off-Diagonal Coupling and Temperature-Dependent Canonical Transformations. Journal of Physical Chemistry B, 2011, 115, 5312-5321.	2.6	47

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73	Quantized Anomalous Hall Effect in Magnetic Topological Insulators. <i>Science</i> , 2010, 329, 61-64.	12.6	1,770
74	Intrinsic Topological Insulator Bi_2Te_3 Thin Films on Si and Their Thickness Limit. <i>Advanced Materials</i> , 2010, 22, 4002-4007.	21.0	376
75	Theoretical prediction of topological insulators in thallium-based III-V-VI ternary chalcogenides. <i>Europhysics Letters</i> , 2010, 90, 37002.	2.0	140
76	Model Hamiltonian for topological insulators. <i>Physical Review B</i> , 2010, 82, .	3.2	719
77	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. <i>Physical Review Letters</i> , 2010, 105, 266401.	7.8	195
78	Oscillatory crossover from two-dimensional to three-dimensional topological insulators. <i>Physical Review B</i> , 2010, 81, .	3.2	459
79	Topological insulators in Bi_2Se_3 , Bi_2Te_3 and Sb_2Te_3 with a single Dirac cone on the surface. <i>Nature Physics</i> , 2009, 5, 438-442.	16.7	5,240
80	Experimental Demonstration of Topological Surface States Protected by Time-Reversal Symmetry. <i>Physical Review Letters</i> , 2009, 103, 266803.	7.8	653
81	Experimental Realization of a Three-Dimensional Topological Insulator, Bi_2Te_3 . <i>Science</i> , 2009, 325, 178-181.	12.6	3,095
82	Electron-hole asymmetry and quantum critical point in hole-doped BaFe_2As_2 . <i>Europhysics Letters</i> , 2008, 84, 67015.	2.0	53
83	Competing orders and spin-density-wave instability in $\text{La}(\text{O}_{1-x}\text{F}_x)\text{FeAs}$. <i>Europhysics Letters</i> , 2008, 83, 27006.	2.0	627