## Haijun Zhang

## List of Publications by Citations

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#	Paper	IF	Citations
80	Topological insulators in Bi2Se3, Bi2Te3 and Sb2Te3 with a single Dirac cone on the surface. <i>Nature Physics</i> , <b>2009</b> , 5, 438-442	16.2	4411
79	Experimental realization of a three-dimensional topological insulator, Bi2Te3. <i>Science</i> , <b>2009</b> , 325, 178-8	133.3	2650
78	Quantized anomalous Hall effect in magnetic topological insulators. <i>Science</i> , <b>2010</b> , 329, 61-4	33.3	1382
77	Large-gap quantum spin Hall insulators in tin films. <i>Physical Review Letters</i> , <b>2013</b> , 111, 136804	7.4	952
76	Competing orders and spin-density-wave instability in La(O 1☑ F x )FeAs. <i>Europhysics Letters</i> , <b>2008</b> , 83, 27006	1.6	598
75	Experimental demonstration of topological surface states protected by time-reversal symmetry. <i>Physical Review Letters</i> , <b>2009</b> , 103, 266803	7.4	586
74	High-precision realization of robust quantum anomalous Hall state in a hard ferromagnetic topological insulator. <i>Nature Materials</i> , <b>2015</b> , 14, 473-7	27	581
73	Model Hamiltonian for topological insulators. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	563
72	Experimental observation of topological Fermi arcs in type-II Weyl semimetal MoTe2. <i>Nature Physics</i> , <b>2016</b> , 12, 1105-1110	16.2	506
71	Oscillatory crossover from two-dimensional to three-dimensional topological insulators. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	389
70	Intrinsic topological insulator Bi2Te3 thin films on Si and their thickness limit. <i>Advanced Materials</i> , <b>2010</b> , 22, 4002-7	24	335
69	Rapid surface oxidation as a source of surface degradation factor for BiBellACS Nano, <b>2011</b> , 5, 4698-703	16.7	279
68	Topological Axion States in the Magnetic Insulator MnBi_{2}Te_{4} with the Quantized Magnetoelectric Effect. <i>Physical Review Letters</i> , <b>2019</b> , 122, 206401	7.4	277
67	Generation and electric control of spin-valley-coupled circular photogalvanic current in WSe2. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 851-7	28.7	216
66	Symmetry-protected ideal Weyl semimetal in HgTe-class materials. <i>Nature Communications</i> , <b>2016</b> , 7, 11136	17.4	169
65	Single Dirac cone topological surface state and unusual thermoelectric property of compounds from a new topological insulator family. <i>Physical Review Letters</i> , <b>2010</b> , 105, 266401	7.4	167
64	Pressure induced metallization with absence of structural transition in layered molybdenum diselenide. <i>Nature Communications</i> , <b>2015</b> , 6, 7312	17.4	141

## (2016-2015)

63	Quantum spin hall insulators in strain-modified arsenene. <i>Nanoscale</i> , <b>2015</b> , 7, 19152-9	7.7	133
62	Theoretical prediction of topological insulators in thallium-based III-V-VI 2 ternary chalcogenides. <i>Europhysics Letters</i> , <b>2010</b> , 90, 37002	1.6	126
61	Intrinsic magnetic topological insulator phases in the Sb doped MnBiTe bulks and thin flakes. <i>Nature Communications</i> , <b>2019</b> , 10, 4469	17.4	122
60	Semiconductor-topological insulator transition of two-dimensional SbAs induced by biaxial tensile strain. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	111
59	Spin-orbital texture in topological insulators. <i>Physical Review Letters</i> , <b>2013</b> , 111, 066801	7.4	101
58	Quantum anomalous Hall effect with higher plateaus. <i>Physical Review Letters</i> , <b>2013</b> , 111, 136801	7.4	95
57	Ideal Weyl Semimetals in the Chalcopyrites CuTlSe_{2}, AgTlTe_{2}, AuTlTe_{2}, and ZnPbAs_{2}. <i>Physical Review Letters</i> , <b>2016</b> , 116, 226801	7.4	85
56	Non-Hermitian nodal-line semimetals with an anomalous bulk-boundary correspondence. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	84
55	Topological insulators from a chemist's perspective. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7221-5	16.4	78
54	Topological insulators in ternary compounds with a honeycomb lattice. <i>Physical Review Letters</i> , <b>2011</b> , 106, 156402	7.4	77
53	Actinide topological insulator materials with strong interaction. <i>Science</i> , <b>2012</b> , 335, 1464-6	33.3	76
52	Anomalous edge transport in the quantum anomalous Hall state. <i>Physical Review Letters</i> , <b>2013</b> , 111, 08	6 <del>8</del> 043	65
51	Topological states in ferromagnetic CdO/EuO superlattices and quantum wells. <i>Physical Review Letters</i> , <b>2014</b> , 112, 096804	7.4	62
50	Discovery of a single topological Dirac fermion in the strong inversion asymmetric compound BiTeCl. <i>Nature Physics</i> , <b>2013</b> , 9, 704-708	16.2	59
49	Topological insulators from the perspective of first-principles calculations. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 72-81	2.5	58
48	Electron-hole asymmetry and quantum critical point in hole-doped BaFe 2 As 2. <i>Europhysics Letters</i> , <b>2008</b> , 84, 67015	1.6	52
47	Quantum anomalous Hall effect in magnetically doped InAs/GaSb quantum wells. <i>Physical Review Letters</i> , <b>2014</b> , 113, 147201	7.4	50
46	Classification of stable Dirac and Weyl semimetals with reflection and rotational symmetry. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	45

45	Discovery of Superconductivity in 2M WS with Possible Topological Surface States. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901942	24	44
44	Predicting a new phase (T") of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. <i>Nanoscale</i> , <b>2016</b> , 8, 4969-75	7.7	44
43	Evidence of anisotropic Majorana bound states in 2M-WS2. <i>Nature Physics</i> , <b>2019</b> , 15, 1046-1051	16.2	44
42	On the Munn-Silbey approach to polaron transport with off-diagonal coupling and temperature-dependent canonical transformations. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 5312-21	3.4	42
41	Helicity dependent photocurrent in electrically gated (Bi Sb )Te thin films. <i>Nature Communications</i> , <b>2017</b> , 8, 1037	17.4	40
40	Observation of Anomalous [Modes in Photonic Floquet Engineering. <i>Physical Review Letters</i> , <b>2019</b> , 122, 173901	7.4	39
39	Quantum Spin Hall and Quantum Anomalous Hall States Realized in Junction Quantum Wells. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	36
38	Three-dimensional topological acoustic crystals with pseudospin-valley coupled saddle surface states. <i>Nature Communications</i> , <b>2018</b> , 9, 4555	17.4	35
37	Observation of Coulomb gap in the quantum spin Hall candidate single-layer 1T'-WTe. <i>Nature Communications</i> , <b>2018</b> , 9, 4071	17.4	32
36	Experimental Observation of the Gate-Controlled Reversal of the Anomalous Hall Effect in the Intrinsic Magnetic Topological Insulator MnBiTe Device. <i>Nano Letters</i> , <b>2020</b> , 20, 709-714	11.5	31
35	Photonic non-Hermitian skin effect and non-Bloch bulk-boundary correspondence. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	29
34	Disentangling the magnetoelectric and thermoelectric transport in topological insulator thin films. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	28
33	Engineering topological phases in the Luttinger semimetal &n. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	28
32	Half-metallic surface states and topological superconductivity in NaCoO2 from first principles. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	27
31	Strain-induced quantum topological phase transitions in Na3Bi. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	25
30	Topological Insulators from a Chemist Perspective. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 7333-7337	3.6	21
29	Pressure-induced structural transitions and metallization in Ag2Te. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	18
28	Large Dynamical Axion Field in Topological Antiferromagnetic Insulator Mn2Bi2Te5. <i>Chinese Physics Letters</i> , <b>2020</b> , 37, 077304	1.8	17

## (2021-2019)

27	Hybrid Acoustic Topological Insulator in Three Dimensions. <i>Physical Review Letters</i> , <b>2019</b> , 123, 195503	7.4	16
26	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , <b>2021</b> , 12, 79	17.4	15
25	Revealing Fermi arcs and Weyl nodes in MoTe2 by quasiparticle interference mapping. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	13
24	Structural transition and amorphization in compressed <b>B</b> b2O3. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12
23	Dynamical axion state with hidden pseudospin Chern numbers in MnBi2Te4-based heterostructures. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
22	Topological Phase Transition-Induced Triaxial Vector Magnetoresistance in (BiIn)Se Nanodevices. <i>ACS Nano</i> , <b>2018</b> , 12, 1537-1543	16.7	11
21	The mechanism exploration for zero-field ferromagnetism in intrinsic topological insulator MnBi2Te4 by Bi2Te3 intercalations. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 221902	3.4	6
20	Large magnetoresistance in topological insulator candidate TaSe3. AIP Advances, 2020, 10, 095314	1.5	6
19	PT-symmetry-protected Dirac states in strain-induced hidden MoS2 monolayer. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
18	Electric Field Tuning of Interlayer Coupling in Noncentrosymmetric 3R-MoS with an Electric Double Layer Interface. <i>ACS Applied Materials &amp; Samp; Interfaces</i> , <b>2020</b> , 12, 46900-46907	9.5	5
17	Evidence of topological nodal lines and surface states in the centrosymmetric superconductor SnTaS2. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	5
16	Band engineering in epitaxial monolayer transition metal dichalcogenides alloy MoxW1\(\mathbb{B}\)Se2 thin films. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 193101	3.4	4
15	Magnetism-induced ideal Weyl state in bulk van der Waals crystal MnSb2Te4. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 192105	3.4	3
14	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS. <i>Nature Communications</i> , <b>2021</b> , 12, 2874	17.4	2
13	Tunable dynamical magnetoelectric effect in antiferromagnetic topological insulator MnBi2Te4 films. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	2
12	Strain-Engineered Nonlinear Hall Effect in HgTe. <i>Spin</i> , <b>2019</b> , 09, 1940017	1.3	2
11	Pressure-stabilized GdN6 with an armchairfintiarmchair structure as a high energy density material. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16751-16758	13	2
10	Nonlinear level attraction of cavity axion polariton in antiferromagnetic topological insulator. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2

9	Study on a negative hydrogen ion source with hot cathode arc discharge. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 02B120	1.7	1
8	Electrostatic and electrochemical charging mechanisms for electric-double-layer gating media based on a crystalline LaF3 solid electrolyte. <i>APL Materials</i> , <b>2021</b> , 9, 061107	5.7	1
7	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu2HgSnSe4. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
6	Coexistence of ferromagnetism and topology by charge carrier engineering in the intrinsic magnetic topological insulator MnBi4Te7. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
5	Nonlinear Hall Effect in Antiferromagnetic Half-Heusler Materials. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 05	73:092	О
4	A Programmable k □p Hamiltonian Method and Application to Magnetic Topological Insulator MnBi2Te4. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 077105	1.8	O
3	Pressure-Driven Ne-Bearing Polynitrides with Ultrahigh Energy Density. <i>Chinese Physics Letters</i> , <b>2022</b> , 39, 056102	1.8	О
2	Topological Insulators from a Chemist's Perspective. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2012</b> , 638, 1641-1641	1.3	

Topological insulators from the perspective of first-principles calculations **2019**, 205-214