Hao Zheng

List of Publications by Year
in descending order

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Version: 2024-02-01

102 papers	10,136 citations	93792 39 h-index	39744 98 g-index
105 all docs	105 docs citations	105 times ranked	8512 citing authors

#	Article	IF	Citations
1	Topological Defects Induced High-Spin Quartet State in Truxene-Based Molecular Graphenoids. CCS Chemistry, 2023, 5, 695-703.	4.6	13
2	MoirÃ©-pattern-modulated electronic structures in Sb2Te3/graphene heterostructure. Nano Research, 2022, 15, 1115-1119.	5.8	5
3	Coexistence of Robust Edge States and Superconductivity in Few-Layer Stanene. Physical Review Letters, 2022, 128, .	2.9	11
4	Observation of Magnetism-Induced Topological Edge State in Antiferromagnetic Topological Insulator MnBi₄Te₇. ACS Nano, 2022, 16, 9810-9818.	7.3	8
5	Stripe order in the doped Hubbard model on the honeycomb lattice. Physical Review B, 2021, 103, .	1.1	7
6	Majorana zero mode in the vortex of artificial topological superconductor. Journal of Applied Physics, 2021, 129, .	1.1	8
7	Inherited weak topological insulator signatures in the topological hourglass semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mn>3</mml:mn></mml <mml:math		

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19	Precise Control of Ï€-Electron Magnetism in Metal-Free Porphyrins. Journal of the American Chemical Society, 2020, 142, 18532-18540.	6.6	31
20	Multiple In-Gap States Induced by Topological Surface States in the Superconducting Topological Crystalline Insulator Heterostructure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sn</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mm Physical Review Letters, 2020, 125, 136802.	2.9	10
21	Resolving Quinoid Structure in Poly(para-phenylene) Chains. Journal of the American Chemical Society, 2020, 142, 10034-10041.	6.6	20
22	A tunable and unidirectional one-dimensional electronic system Nb2n+1SinTe4n+2. Npj Quantum Materials, 2020, 5, .	1.8	15
23	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. Physical Review B, 2020, 101, .	1.1	22
24	One dimensional electronic states in mirror twin boundaries of Bi (1Â1Â1). Applied Surface Science, 2020, 512, 145644.	3.1	3
25	Robust Hot Electron and Multiple Topological Insulator States in PtBi₂. ACS Nano, 2020, 14, 2366-2372.	7.3	13
26	Coupling of superconductivity and Coulomb blockade in Sn nanoparticles. Nanotechnology, 2020, 31, 305708.	1.3	3
27	Engineering of Magnetic Coupling in Nanographene. Physical Review Letters, 2020, 124, 147206.	2.9	47
28	Influence of disorder on superconductivity in the Si(111)- 7Ã— 3-In surface. Applied Physics Letters, 2020, 117, 172601.	1.5	3
29	STRUCTURE OF A PHTHALOCYANINE DYE ON ZnO. Surface Review and Letters, 2019, 26, 1850204.	0.5	0
30	Scanning tunneling microscopic investigation on morphology of magnetic Weyl semimetal YbMnBi₂ *. Chinese Physics B, 2019, 28, 077302.	0.7	8
31	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe2Br. APL Materials, 2019, 7, 101110.	2.2	6
32	Superconductivity of Topological Surface States and Strong Proximity Effect in Sn 1â^' x Pb x Teâ€“Pb Heterostructures. Advanced Materials, 2019, 31, 1905582.	11.1	15
33	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	6.0	374
34	Molecular beam epitaxy of superconducting PdTe2 films on topological insulator Bi2Te3. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	8
35	Topological superconductivity in a Bi₂Te₃/NbSe₂ heterostructure: A review*. Chinese Physics B, 2019, 28, 067403.	0.7	15
36	Efficient Inverted Planar Perovskite Solar Cells Using Ultraviolet/Ozoneâ€Treated NiO_x as the Hole Transport Layer (Solar RRL 6â^•2019). Solar Rrl, 2019, 3, 1970063.	3.1	8

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37	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	1.1	15
38	Diamagnetic response of a superconducting surface superstructure: Si(111)- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>â^š</mml:mi><mml:mn>7</mml:mn><mml:mo>Ã—</mm -In. Physical Review B, 2019, 99, .	1.1	12
39	Onâ€Surface Synthesis of Iron Phthalocyanine Using Metalâ€Organic Coordination Templates. ChemPhysChem, 2019, 20, 2394-2397.	1.0	5
40	Efficient Inverted Planar Perovskite Solar Cells Using Ultraviolet/Ozoneâ€Treated NiO_x as the Hole Transport Layer. Solar Rrl, 2019, 3, 1900045.	3.1	81
41	The unusual suppression of superconducting transition temperature in double-doping 2H-NbSe2. Superconductor Science and Technology, 2019, 32, 085008.	1.8	11
42	Observation of topological surface states in the high-temperature superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></mml:msub></mr Physical Review B, 2019, 100, .	1.1	21
43	Diamagnetic Response of Potassium-Adsorbed Multilayer FeSe Film. Physical Review Letters, 2019, 123, 257001.	2.9	13
44	Antiferromagnetic Order in Epitaxial FeSe Films on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2018, 120, 097001.	2.9	35
45	Magnetic and noncentrosymmetric Weyl fermion semimetals in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="italic">R</mml:mi><mml:mi		

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55	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	4.7	48
56	A minimal double quantum dot. Scientific Reports, 2017, 7, 10764.	1.6	13
57	Nexus fermions in topological symmorphic crystalline metals. Scientific Reports, 2017, 7, 1688.	1.6	116
58	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	5.8	98
59	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	2.9	20
60	Nontrivial Berry phase and type-II Dirac transport in the layered material<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PdT</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, 2017, 96, .	1.1	179
61	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. Science Advances, 2017, 3, e1603266.	4.7	176
62	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	2.9	56
63	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co2TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	1.6	148
64	Discovery of a new type of topological Weyl fermion semimetal state in MoxW1â^'xTe2. Nature Communications, 2016, 7, 13643.	5.8	163
65	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. 2D Materials, 2016, 3, 021009.	2.0	21
66	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mi>x</mml:mi></mml:m mathvariant="normal">W</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><(Physical Review B, 2016, 94, .	1.1	115
67	Drumhead surface states and topological nodal-line fermions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TlTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub><(Physical Review B, 2016, 93, .	1.1	268
68	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub><(Physical Review B, 2016, 93, .	1.1	16
69	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	2.9	54
70	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	2.9	102
71	Topological Dirac surface states and superconducting pairing correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub><(Physical Review B, 2016, 93, .	1.1	79
72	A strongly robust type II Weyl fermion semimetal state in Ta ₃ S ₂. Science Advances, 2016, 2, e1600295.	4.7	114

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73	Signatures of the Adlerâ€“Bellâ€“Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	5.8	603
74	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
75	Prediction of an arc-tunable Weyl Fermion metallic state in MoxW1â^'xTe2. Nature Communications, 2016, 7, 10639.	5.8	249
76	Topological nodal-line fermions in spin-orbit metal PbTaSe2. Nature Communications, 2016, 7, 10556.	5.8	688
77	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	2.9	134
78	New type of Weyl semimetal with quadratic double Weyl fermions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1180-1185.	3.3	291
79	Fermi surface topology and hot spot distribution in the Kondo lattice system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">CeB</mml:mi><mml:mn mathvariant="bold">6</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	1.1	29
80	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	1.1	127
81	Direct transition resonance in atomically uniform topological Sb(111) thin films. Physical Review B, 2015, 92, .	1.1	3
82	Line and Point Defects in MoSe₂ Bilayer Studied by Scanning Tunneling Microscopy and Spectroscopy. ACS Nano, 2015, 9, 6619-6625.	7.3	73
83	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	4.7	337
84	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	6.0	2,753
85	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	6.5	817
86	Tuning the electron transport at single donors in zinc oxide with a scanning tunnelling microscope. Nature Communications, 2014, 5, 2992.	5.8	20
87	â€œMagicâ€•Vicinal Zinc Oxide Surfaces. Physical Review Letters, 2013, 111, 086101.	2.9	35
88	Manipulation of Subsurface Donors in ZnO. Physical Review Letters, 2013, 110, 226101.	2.9	34
89	Completely invisible open tunnel for cylindrical metamaterial devices. Physical Review A, 2013, 88, .	1.0	0
90	Spectroscopy of Single Donors at ZnO(0001) Surfaces. Physical Review Letters, 2012, 108, 076801.	2.9	48

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91	Ordered versus random nucleation of InN islands grown by molecular beam epitaxy. Surface Science, 2012, 606, 120-123.	0.8	1
92	Effects of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi></mml:math>boson on the inner edge of neutron star crusts. Physical Review D, 2012, 85, .	1.6	12
93	Fabrication and characterization of high quality n-ZnO/p-GaN heterojunction light emission diodes. Thin Solid Films, 2011, 520, 445-447.	0.8	17
94	Bias-dependent scanning tunneling microscopy investigation of potassium adsorption on aSi(111)â˜7Ã—7surface. Physical Review B, 2009, 80, .	1.1	5
95	Kinetic energy barriers on the GaN(0001) surface: A nucleation study by scanning tunneling microscopy. Physical Review B, 2008, 77, .	1.1	34
96	Wetting of GaN islands by excess Ga: Origin of different appearances of GaN islands in scanning tunneling microscopy. Physical Review B, 2007, 75, .	1.1	9
97	Wet chemical etching of ZnO film using aqueous acidic salt. Thin Solid Films, 2007, 515, 3967-3970.	0.8	32
98	Growth of In2O3 single-crystalline film on sapphire (0001) substrate by molecular beam epitaxy. Journal of Crystal Growth, 2006, 289, 686-689.	0.7	53
99	Controlled growth of Zn-polar ZnO epitaxial film by nitridation of sapphire substrate. Applied Physics Letters, 2005, 86, 112111.	1.5	56
100	Controlled growth of O-polar ZnO epitaxial film by oxygen radical preconditioning of sapphire substrate. Journal of Applied Physics, 2004, 96, 7108-7111.	1.1	39
101	Effect of sapphire substrate nitridation on the elimination of rotation domains in ZnO epitaxial films. Journal Physics D: Applied Physics, 2004, 37, 3058-3062.	1.3	32
102	Observation of a Shockley Surface State on Gold Nanoparticles with Sizes Down to 5 nm. Journal of Physical Chemistry C, 0, , .	1.5	1