

# Hao Zheng

## List of Publications by Year in descending order

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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	Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015, 349, 613-617.	6.0	2,753
2	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015, 11, 748-754.	6.5	817
3	Topological nodal-line fermions in spin-orbit metal PbTaSe <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10556.	5.8	688
4	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016, 7, 10735.	5.8	603
5	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. <i>Science</i> , 2019, 365, 1278-1281.	6.0	374
6	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015, 1, e1501092.	4.7	337
7	New type of Weyl semimetal with quadratic double Weyl fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1180-1185.	3.3	291
8	Drumhead surface states and topological nodal-line fermions in $\text{TaTe}_2$ . <i>Physical Review B</i> , 2016, 93, .	2.68	268
9	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. <i>Nature</i> , 2018, 562, 91-95.	13.7	255
10	Prediction of an arc-tunable Weyl Fermion metallic state in $\text{Mo}_x\text{W}_{1-x}\text{Te}_2$ . <i>Nature Communications</i> , 2016, 7, 10639.	5.8	249
11	Nontrivial Berry phase and type-II Dirac transport in the layered material $\text{PdTe}_2$ . <i>Physical Review B</i> , 2017, 96, .	1.1	179
12	Discovery of Lorentz-violating type II Weyl fermions in $\text{LaAlGe}$ . <i>Science Advances</i> , 2017, 3, e1603266.	4.7	176
13	Discovery of a new type of topological Weyl fermion semimetal state in $\text{Mo}_x\text{W}_{1-x}\text{Te}_2$ . <i>Nature Communications</i> , 2016, 7, 13643.	5.8	163
14	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler $\text{Co}_2\text{TiX}$ (X=Si, Ge, or Sn). <i>Scientific Reports</i> , 2016, 6, 38839.	1.6	148
15	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016, 116, 066802.	2.9	134
16	Magnetic and noncentrosymmetric Weyl fermion semimetals in the $\text{RCo}_2\text{P}_2\text{O}_{14}$ family. <i>Physical Review B</i> , 2017, 96, .		

#	ARTICLE	IF	CITATIONS
19	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate $W\text{Te}$ . Physical Review B, 2016, 94, .	4.1	115
20	A strongly robust type II Weyl fermion semimetal state in $\text{TaS}_3$ . Science Advances, 2016, 2, e1600295.	4.7	114
21	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
22	Electronic nature of chiral charge order in the kagome superconductor $\text{CsV}_3\text{Sb}_5$ . Physical Review B, 2021, 104, .	1.1	108
23	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	2.9	102
24	Signatures of a time-reversal symmetric Weyl semimetal with only four Weyl points. Nature Communications, 2017, 8, 942.	5.8	98
25	Efficient Inverted Planar Perovskite Solar Cells Using Ultraviolet/Ozone-Treated $\text{NiO}_x$ as the Hole Transport Layer. Solar Rrl, 2019, 3, 1900045.	3.1	81
26	Topological Dirac surface states and superconducting pairing correlations in $\text{PbTaSe}_2$ . Physical Review B, 2016, 93, .	1.1	77
27	Line and Point Defects in $\text{MoSe}_2$ Bilayer Studied by Scanning Tunneling Microscopy and Spectroscopy. ACS Nano, 2015, 9, 6619-6625.	7.3	73
28	Strain Tunable Semimetal-Topological-Insulator Transition in Monolayer $\text{TaAs}$ . Physical Review Letters, 2020, 125, 046801.	2.9	67
29	Controlled growth of Zn-polar ZnO epitaxial film by nitridation of sapphire substrate. Applied Physics Letters, 2005, 86, 112111.	1.5	56
30	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	2.9	56
31	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	2.9	54
32	Growth of $\text{In}_2\text{O}_3$ single-crystalline film on sapphire (0001) substrate by molecular beam epitaxy. Journal of Crystal Growth, 2006, 289, 686-689.	0.7	53
33	Spectroscopy of Single Donors at $\text{ZnO}(0001)$ Surfaces. Physical Review Letters, 2012, 108, 076801.	2.9	48
34	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	4.7	48
35	Quasiparticle interference and nonsymmorphic effect on a floating band surface state of $\text{ZrSiSe}$ . Nature Communications, 2018, 9, 4153.	5.8	48
36	Designer spin order in diradical nanographenes. Nature Communications, 2020, 11, 6076.	5.8	47

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37	Engineering of Magnetic Coupling in Nanographene. <i>Physical Review Letters</i> , 2020, 124, 147206.	2.9	47
38	Discovery of segmented Fermi surface induced by Cooper pair momentum. <i>Science</i> , 2021, 374, 1381-1385.	6.0	45
39	Controlled growth of O-polar ZnO epitaxial film by oxygen radical preconditioning of sapphire substrate. <i>Journal of Applied Physics</i> , 2004, 96, 7108-7111.	1.1	39
40	Quasiparticle interference on type-I and type-II Weyl semimetal surfaces: a review. <i>Advances in Physics: X</i> , 2018, 3, 1466661.	1.5	38
41	“Magic” Vicinal Zinc Oxide Surfaces. <i>Physical Review Letters</i> , 2013, 111, 086101.	2.9	35
42	Antiferromagnetic Order in Epitaxial FeSe Films on $\text{SrTiO}_3$ . <i>Physical Review Letters</i> , 2018, 120, 097001.	2.9	35
43	Kinetic energy barriers on the GaN(0001) surface: A nucleation study by scanning tunneling microscopy. <i>Physical Review B</i> , 2008, 77, .	1.1	34
44	Manipulation of Subsurface Donors in ZnO. <i>Physical Review Letters</i> , 2013, 110, 226101.	2.9	34
45	Effect of sapphire substrate nitridation on the elimination of rotation domains in ZnO epitaxial films. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 3058-3062.	1.3	32
46	Wet chemical etching of ZnO film using aqueous acidic salt. <i>Thin Solid Films</i> , 2007, 515, 3967-3970.	0.8	32
47	Precise Control of $\pi$ -Electron Magnetism in Metal-Free Porphyrins. <i>Journal of the American Chemical Society</i> , 2020, 142, 18532-18540.	6.6	31
48	Fermi surface topology and hot spot distribution in the Kondo lattice system $\text{CeB}_6$ . <i>Physical Review B</i> , 2015, 92, .	1.1	29
49	Field-free platform for Majorana-like zero mode in superconductors with a topological surface state. <i>Physical Review B</i> , 2020, 101, .	1.1	22
50	Experimental observation of two massless Dirac-fermion gases in graphene-topological insulator heterostructure. <i>2D Materials</i> , 2016, 3, 021009.	2.0	21
51	Observation of topological surface states in the high-temperature superconductor $\text{MgB}_2$ . <i>Physical Review B</i> , 2019, 100, .	2.5	21
52	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. <i>Nature Materials</i> , 2020, 19, 27-33.	13.3	21
53	Tuning the electron transport at single donors in zinc oxide with a scanning tunnelling microscope. <i>Nature Communications</i> , 2014, 5, 2992.	5.8	20
54	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017, 119, 196403.	2.9	20

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55	Resolving Quinoid Structure in Poly( <i>para</i> -phenylene) Chains. Journal of the American Chemical Society, 2020, 142, 10034-10041.	6.6	20
56	Sierpiński Structure and Electronic Topology in Bi Thin Films on InSb(111)B Surfaces. Physical Review Letters, 2021, 126, 176102.	2.9	20
57	Fabrication and characterization of high quality n-ZnO/p-GaN heterojunction light emission diodes. Thin Solid Films, 2011, 520, 445-447.	0.8	17
58	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate $U$ . Physical Review B, 2016, 93, .	1.1	16
59	Superconductivity of Topological Surface States and Strong Proximity Effect in $\text{Sn} 1\hat{x} \times \text{Pb} x \text{Te}$ Heterostructures. Advanced Materials, 2019, 31, 1905582.	11.1	15
60	Topological superconductivity in a $\text{Bi}_2\text{Te}_3/\text{NbSe}_2$ heterostructure: A review*. Chinese Physics B, 2019, 28, 067403.	0.7	15
61	Vector field controlled vortex lattice symmetry in LiFeAs using scanning tunneling microscopy. Physical Review B, 2019, 99, .	1.1	15
62	A tunable and unidirectional one-dimensional electronic system $\text{Nb}_{2n+1}\text{S}_n\text{Te}_{4n+2}$ . Npj Quantum Materials, 2020, 5, .	1.8	15
63	Quantum liquid from strange frustration in the trimer magnet $\text{Ba}_4\text{Ir}_3\text{O}_{10}$ . Npj Quantum Materials, 2020, 5, .	1.8	14
64	A minimal double quantum dot. Scientific Reports, 2017, 7, 10764.	1.6	13
65	Diamagnetic Response of Potassium-Adsorbed Multilayer FeSe Film. Physical Review Letters, 2019, 123, 257001.	2.9	13
66	Robust Hot Electron and Multiple Topological Insulator States in $\text{PtBi}_2$ . ACS Nano, 2020, 14, 2366-2372.	7.3	13
67	Topological Defects Induced High-Spin Quartet State in Truxene-Based Molecular Graphenoids. CCS Chemistry, 2023, 5, 695-703.	4.6	13
68	Effects of the $U$ boson on the inner edge of neutron star crusts. Physical Review D, 2012, 85, .	1.6	12
69	Charge Density Wave States in $2\text{H-MoTe}_2$ Revealed by Scanning Tunneling Microscopy. Chinese Physics Letters, 2018, 35, 066801.	1.3	12
70	Diamagnetic response of a superconducting surface superstructure: $\text{Si}(111)$ - $\sqrt{7} \times \sqrt{7}$ . Physical Review B, 2019, 99, .	1.1	12
71	Inherited weak topological insulator signatures in the topological hourglass semimetal $\text{Nb}_3\text{S}_7\text{Cl}$ . Physical Review B, 2019, 99, .	1.1	12



