

Shin-Ming Huang

List of Publications by Year in descending order

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59
papers

11,012
citations

126708

33
h-index

143772

57
g-index

59
all docs

59
docs citations

59
times ranked

6480
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	6.0	2,753
2	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. Nature Communications, 2015, 6, 7373.	5.8	1,336
3	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	6.5	817
4	Topological nodal-line fermions in spin-orbit metal PbTaSe ₂ . Nature Communications, 2016, 7, 10556.	5.8	688
5	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	5.8	603
6	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	6.0	374
7	Discovery of Weyl Fermion Semimetals and Topological Fermi Arc States. Annual Review of Condensed Matter Physics, 2017, 8, 289-309.	5.2	349
8	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	4.7	337
9	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
10	Unconventional Chiral Fermions and Large Topological Fermi Arcs in RhSi. Physical Review Letters, 2017, 119, 206401.	2.9	270
11	Drumhead surface states and topological nodal-line fermions in TiTaSe_2 . Physical Review B, 2016, 93, .	2.9	268
12	Topological quantum properties of chiral crystals. Nature Materials, 2018, 17, 978-985.	13.3	252
13	Prediction of an arc-tunable Weyl Fermion metallic state in $\text{Mo}_x\text{W}_{1-x}\text{Te}_2$. Nature Communications, 2016, 7, 10639.	5.8	249
14	Topological Hopf and Chain Link Semimetal States and Their Application to Co_2Te . Physical Review Letters, 2017, 119, 156401.	2.9	183
15	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. Science Advances, 2017, 3, e1603266.	4.7	176
16	Discovery of a new type of topological Weyl fermion semimetal state in $\text{Mo}_x\text{W}_{1-x}\text{Te}_2$. Nature Communications, 2016, 7, 13643.	5.8	163
17	Type-II Symmetry-Protected Topological Dirac Semimetals. Physical Review Letters, 2017, 119, 026404.	2.9	145
18	Thickness dependent electronic properties of Pt dichalcogenides. Npj 2D Materials and Applications, 2019, 3, .	3.9	138

#	ARTICLE	IF	CITATIONS
19	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802. Magnetic and noncentrosymmetric Weyl fermion semimetals in the R	2.9	134
20			

#	ARTICLE	IF	CITATIONS
37	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. <i>Physical Review Letters</i> , 2017, 119, 196403.	2.9	20
38	Evolution of the Electronic Properties of ZrX_2 (X = S, Se, or Te) Thin Films under Varying Thickness. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1134-1142.	1.5	19
39	Observation of a linked-loop quantum state in a topological magnet. <i>Nature</i> , 2022, 604, 647-652.	13.7	18
40	Band Engineering and Van Hove Singularity on HfX_2 Thin Films (X = S, Se, or Te). <i>ACS Applied Electronic Materials</i> , 2021, 3, 1071-1079.	2.0	17
41	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX_4 , A/B = Zr, Hf, or Ti; X = S, Se, or Te). <i>Applied Physics Letters</i> , 2021, 118, .	1.5	16
42	Observation of charge-transfer-driven antiferroelectricity in 3d-pyrochlore multiferroic Cu_2OCl_2 . <i>Materials Today Physics</i> , 2019, 8, 34-42.	2.9	13
43	Topological superconductor in quasi-one-dimensional Tl_2Te . <i>Physical Review B</i> , 2018, 97, .	1.1	12
44	Prediction of Quantum Anomalous Hall Effect in MBi and MSb (M:Ti, Zr, and Hf) Honeycombs. <i>Nanoscale Research Letters</i> , 2018, 13, 43.	3.1	12
45	Tunneling spectroscopy and Majorana modes emergent from topological gapless phases in high- T_c superconductors. <i>Physical Review B</i> , 2015, 91, .	1.1	11
46	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides ($MM'X_4$, MA_2Ta_2 , Nb, or V; M' = Ir, Rh, or Co; X = Se or Te). <i>Chinese Journal of Physics</i> , 2021, 73, 95-102.	2.0	11
47	Magnetically tunable Dirac and Weyl fermions in the Zintl materials family. <i>Physical Review Materials</i> , 2022, 6, .	0.9	9
48	Intrinsic high-temperature superconductivity in ternary iron selenides. <i>Physical Review B</i> , 2013, 88, .	1.1	8
49	Effective tight-binding model for the iron-vacancy-ordered $AyFe_{1.6}Se_2$. <i>Physical Review B</i> , 2011, 84, .	1.1	7
50	Aspects of symmetry and topology in the charge density wave phase of $1T\text{-}TiSe_2$. <i>New Journal of Physics</i> , 2021, 23, 083037.	1.2	7
51	Stability of Z_2 topological order in the presence of vacancy-induced impurity band. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 255502.	0.7	5
52	Slave-rotor theory on magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	5
53	Duality in topological superconductors and topological ferromagnetic insulators in a honeycomb lattice. <i>Physical Review B</i> , 2016, 93, .	1.1	4
54	Unconventional superconducting gap via spin fluctuations in iron-vacancy-ordered $AyFe_{2-x}Se_2$. <i>Physical Review B</i> , 2012, 85, .	1.1	3

#	ARTICLE	IF	CITATIONS
55	Topological theory of inversion-breaking charge-density-wave monolayer $1T\text{-TiSe}_2$. New Journal of Physics, 2021, 23, 093025.	1.2	3
56	Machine learning on the electron-phonon mechanism in superconductors. New Journal of Physics, 2020, 22, 123014.	1.2	3
57	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic $\text{Mn}_{1.5}\text{Cr}_{1.5}\text{O}_4$. Journal of Physics Condensed Matter, 2021, 33, 505802.	0.7	2
58	First-principles study of the crystal and magnetic structures of multiferroic Cu_2OCl_2 . Journal of Physics Condensed Matter, 0, , .	0.7	1
59	Topologically distinct Weyl fermion pairs. Scientific Reports, 2021, 11, 416.	1.6	0