

Shin-Ming Huang

List of Publications by Year in descending order

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59
papers

11,012
citations

126708

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59
docs citations

59
times ranked

6480
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a linked-loop quantum state in a topological magnet. <i>Nature</i> , 2022, 604, 647-652.	13.7	18
2	Magnetically tunable Dirac and Weyl fermions in the Zintl materials family. <i>Physical Review Materials</i> , 2022, 6, .	0.9	9
3	Topologically distinct Weyl fermion pairs. <i>Scientific Reports</i> , 2021, 11, 416.	1.6	0
4	Evolution of the Electronic Properties of ZrX_2 ($X = S, Se, \text{ or } Te$) Thin Films under Varying Thickness. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1134-1142.	1.5	19
5	Tuning topological phases and electronic properties of monolayer ternary transition metal chalcogenides (ABX_4 , $A/B = Zr, Hf, \text{ or } Ti$; $X = S, Se, \text{ or } Te$). <i>Applied Physics Letters</i> , 2021, 118, .	1.5	16
6	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. <i>Physical Review B</i> , 2021, 103, .	1.1	42
7	Band Engineering and Van Hove Singularity on HfX_2 Thin Films ($X = S, Se, \text{ or } Te$). <i>ACS Applied Electronic Materials</i> , 2021, 3, 1071-1079.	2.0	17
8	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
9	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic $Mn_{1.5}Cr_{1.5}O_4$. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 505802.	0.7	2
10	Topological theory of inversion-breaking charge-density-wave monolayer $1T\text{-}TiSe_2$. <i>New Journal of Physics</i> , 2021, 23, 093025.	1.2	3
11	Theoretical prediction of topological insulators in two-dimensional ternary transition metal chalcogenides ($MM'X_4$, $M\hat{A}=\hat{A}Ta, Nb, \text{ or } V$; $M' = Ir, Rh, \text{ or } Co$; $X\hat{A}=\hat{A}Se \text{ or } Te$). <i>Chinese Journal of Physics</i> , 2021, 73, 95-102.	2.0	11
12	Slave-rotor theory on magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	5
13	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. <i>Nature</i> , 2020, 578, 545-549.	13.7	80
14	Transition from intrinsic to extrinsic anomalous Hall effect in the ferromagnetic Weyl semimetal $PrAlGe_1\hat{x}\hat{i}Si\hat{x}\hat{i}$. <i>APL Materials</i> , 2020, 8, .	2.2	41
15	Unconventional Photocurrents from Surface Fermi Arcs in Topological Chiral Semimetals. <i>Physical Review Letters</i> , 2020, 124, 166404.	2.9	40
16	Machine learning on the electron-boson mechanism in superconductors. <i>New Journal of Physics</i> , 2020, 22, 123014.	1.2	3
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Thickness dependent electronic properties of Pt dichalcogenides. Npj 2D Materials and Applications, 2019, 3, .	3.9	138
20	Prediction of threefold fermions in a nearly ideal Dirac semimetal BaAgAs. Physical Review Materials, 2019, 3, .	0.9	24
21	Topological superconductor in quasi-one-dimensional Tl_2Te and noncentrosymmetric Weyl fermion semimetals in the $R\bar{1}2'$ space group. Physical Review Letters, 2018, 120, 177201.	10.1	102
22	Magnetic and noncentrosymmetric Weyl fermion semimetals in the $R\bar{1}2'$ space group. Physical Review Letters, 2018, 120, 177201.	10.1	102

#	ARTICLE	IF	CITATIONS
37	Duality in topological superconductors and topological ferromagnetic insulators in a honeycomb lattice. Physical Review B, 2016, 93, .	1.1	4
38	Drumhead surface states and topological nodal-line fermions in TiTaSe_2 . Physical Review B, 2016, 93, .	1.1	208
39	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. Physical Review Letters, 2016, 116, 066601.	2.9	54
40	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	2.9	102
41	A strongly robust type II Weyl fermion semimetal state in Ta_3S_2 . Science Advances, 2016, 2, e1600295.	4.7	114
42	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	5.8	603
43	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
44	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
45	Topological nodal-line fermions in spin-orbit metal PbTaSe_2 . Nature Communications, 2016, 7, 10556.	5.8	688
46	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	2.9	134
47	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
48	Tunneling spectroscopy and Majorana modes emergent from topological gapless phases in high- T_c superconductors. Physical Review B, 2015, 91, .	1.1	11
49	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. Physical Review B, 2015, 92, .	1.1	127
50	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	4.7	337
51	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monpnictide TaAs class. Nature Communications, 2015, 6, 7373.	5.8	1,336
52	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	6.0	2,753
53	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	6.5	817
54	Ferromagnetism and quantum anomalous Hall effect in one-side-saturated buckled honeycomb lattices. Physical Review B, 2014, 89, .	1.1	21

#	ARTICLE	IF	CITATIONS
55	Stability of Z_2 topological order in the presence of vacancy-induced impurity band. Journal of Physics Condensed Matter, 2014, 26, 255502.	0.7	5
56	Intrinsic high-temperature superconductivity in ternary iron selenides. Physical Review B, 2013, 88, .	1.1	8
57	Unconventional superconducting gap via spin fluctuations in iron-vacancy-ordered $AyFe_{2-x}Se_2$. Physical Review B, 2012, 85, .	1.1	3
58	Effective tight-binding model for the iron-vacancy-ordered $AyFe_{1.6}Se_2$. Physical Review B, 2011, 84, .	1.1	7
59	First-principles study of the crystal and magnetic structures of multiferroic Cu_2OCl_2 . Journal of Physics Condensed Matter, 0, , .	0.7	1