

Zhong-Kai Liu

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

10,310
citations

361413

20
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

11103
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Realization of a Three-Dimensional Topological Insulator, Bi ₂ Te ₃ . Science, 2009, 325, 178-181.	12.6	3,095
2	Discovery of a Three-Dimensional Topological Dirac Semimetal, Na ₃ Bi. Science, 2014, 343, 864-867.	12.6	1,889
3	A stable three-dimensional topological Dirac semimetal Cd ₃ As ₂ . Nature Materials, 2014, 13, 677-681.	27.5	1,242
4	Direct observation of the transition from indirect to direct bandgap in atomically thin epitaxial MoSe ₂ . Nature Nanotechnology, 2014, 9, 111-115.	31.5	1,129
5	Weyl semimetal phase in the non-centrosymmetric compound TaAs. Nature Physics, 2015, 11, 728-732.	16.7	796
6	Interfacial mode coupling as the origin of the enhancement of T _c in FeSe films on SrTiO ₃ . Nature, 2014, 515, 245-248.	27.8	567
7	Magnetic Weyl semimetal phase in a Kagomé crystal. Science, 2019, 365, 1282-1285.	12.6	518
8	Signature of type-II Weyl semimetal phase in MoTe ₂ . Nature Communications, 2017, 8, 13973. Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals	12.8	358
9	$\frac{M}{SiS} = 0.16em$	3.2	131
10	Unveiling Electronic Correlation and the Ferromagnetic Superexchange Mechanism in the van der Waals Crystal CrSiTe ₃ . Physical Review Letters, 2019, 123, 047203.	7.8	52
11	Ubiquitous strong electron-phonon coupling at the interface of FeSe/SrTiO ₃ . Nature Communications, 2017, 8, 14468.	12.8	51
12	Measurement of Coherent Polarons in the Strongly Coupled Antiferromagnetically Ordered Iron-Chalcogenide Fe _{1.02} Te ₃ using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2013, 110, 037003.	7.8	46
13	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, .	3.2	46
14	Topological origin of the type-II Dirac fermions in PtSe ₂ .	2.4	44
15	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS ₂ . Nature Communications, 2021, 12, 2874.	12.8	43
16	Topological Lifshitz transitions and Fermi arc manipulation in Weyl semimetal NbAs. Nature Communications, 2019, 10, 3478.	12.8	41
17	Magnetic exchange induced Weyl state in a semimetal EuCd ₂ Sb ₂ . APL Materials, 2020, 8, .	5.1	37
18	Photoemission study of the electronic structure of valence band convergent SnSe. Physical Review B, 2017, 96, .	3.2	30

#	ARTICLE	IF	CITATIONS
19	Folded superstructure and degeneracy-enhanced band gap in the weak-coupling charge density wave system $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \frac{27}{a} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle$ Physical Review B, 2018, 97, .	3.2	27
20	Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe ₃ . Matter, 2020, 3, 2055-2065.	10.0	26
21	Observation of the topological surface state in the nonsymmorphic topological insulator KHgSb. Physical Review B, 2017, 96, .	3.2	21
22	Experimental observation of conductive edge states in weak topological insulator candidate HfTe ₅ . APL Materials, 2018, 6, .	5.1	19
23	Magnetism-induced topological transition in EuAs ₃ . Nature Communications, 2021, 12, 6970.	12.8	17
24	Direct observation of the spin-orbit coupling effect in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . Npj Quantum Materials, 2022, 7, .	5.2	16
25	Band-selective Holstein polaron in Luttinger liquid material A _{0.3} MoO ₃ (A = K, Rb). Nature Communications, 2021, 12, 6183.	12.8	13
26	Topological Lifshitz transition of the intersurface Fermi-arc loop in NbIrTe ₄ . Physical Review B, 2020, 102, .	3.2	12
27	Evidence of a topological edge state in a superconducting nonsymmorphic nodal-line semimetal. Physical Review B, 2021, 103, .	3.2	10
28	Electronic structure of the Si-containing topological Dirac semimetal $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle CaA \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle I \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle$ Physical Review B, 2020, 102, .	3.2	9
29	Observation of topological Dirac fermions and surface states in superconducting Ba ₂ S ₃ . Physical Review B, 2021, 103, .	3.2	8
30	Observation of dimension-crossover of a tunable 1D Dirac fermion in topological semimetal Nb ₆ Te ₂ . Npj Quantum Materials, 2022, 7, .	5.2	7
31	Measurement of Superconductivity and Edge States in Topological Superconductor Candidate TaSe ₃ . Chinese Physics Letters, 2021, 38, 077302.	3.3	4
32	Measurement of electronic structure and surface reconstruction in the superionic Cu _{2-x} Te. Physical Review B, 2021, 103, .	3.2	2
33	Direct Visualization and Manipulation of Tunable Quantum Well State in Semiconducting Nb ₂ SiTe ₄ . ACS Nano, 2021, 15, 15850-15857.	14.6	2
34	Observation of electronic structure and electron-boson coupling in the low-dimensional superconductor $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle Ta \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle$ Physical Review B, 2021, 104, .	3.2	2
35	Measurement of the electronic structure of a type-II topological Dirac semimetal candidate VAl ₃ using angle-resolved photoelectron spectroscopy. Tungsten, 0, , 1.	4.8	0
36	Observation of nontrivial topological electronic structure of orthorhombic SnSe. Physical Review Materials, 2022, 6, .	2.4	0