

Chao Cao

List of Publications by Year in descending order

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110
papers

3,381
citations

126907

33
h-index

168389

53
g-index

111
all docs

111
docs citations

111
times ranked

4598
citing authors

#	ARTICLE	IF	CITATIONS
1	WannSymm: A symmetry analysis code for Wannier orbitals. Computer Physics Communications, 2022, 271, 108196.	7.5	22
2	Pressure-induced concomitant topological and metal-insulator quantum phase transitions in Ce3Pd3Bi4. Npj Quantum Materials, 2022, 7, .	5.2	2
3	Superconductivity with the enhanced upper critical field in the Pt-doped CuRh_2S_2 spinel. Physical Review B, 2022, 105, .	3.2	2
4	Electronic structure and open-orbit Fermi surface topology in isostructural semimetals NbAs2 and W2As3 with extremely large magnetoresistance. Applied Physics Letters, 2022, 120, .	3.3	5
5	Manipulation of the ferromagnetic ordering in magnetic semiconductor (La,Ca)(Zn,Mn)AsO by chemical pressure. Journal of Magnetism and Magnetic Materials, 2022, 554, 169276.	2.3	2
6	Consecutive topological phase transitions and colossal magnetoresistance in a magnetic topological semimetal. Npj Quantum Materials, 2022, 7, .	5.2	10
7	Superconductivity in the nodal-line compound La_3Bi_6 . Physical Review Research, 2022, 4, .	3.6	1
8	Microscopic theory of superconducting phase diagram in infinite-layer nickelates. Physical Review B, 2022, 106, .	3.2	11
9	Anisotropic gapping of topological Weyl rings in the charge-density-wave superconductor In TaSe2. Science Bulletin, 2021, 66, 243-249.	9.0	11
10	Doping dependence of electronic structure of infinite-layer NdNiO_2 . Physical Review B, 2021, 103, .	4.2	21
11	Growth, electronic structure and superconductivity of ultrathin epitaxial CoSi_2 films. Journal of Physics Condensed Matter, 2021, 33, 155501.	1.8	1
12	Tuning Rashba effect, band inversion, and spin-charge conversion of Janus X_2S_2 monolayers via an external field. Physical Review B, 2021, 103, .	3.2	18
13	Strain-dependent optical properties of the novel monolayer group-IV dichalcogenides SiS_2 semiconductor: a first-principles study. Nanotechnology, 2021, 32, 235201.	2.6	6
14	Bandwidth-control orbital-selective delocalization of 4f electrons in epitaxial Ce films. Nature Communications, 2021, 12, 2520.	12.8	17
15	Anisotropic Hybridization in the Ferromagnetic Quantum Critical Metal CeRh_6S_6 . Physical Review Letters, 2021, 126, 216406.	7.8	23
16	Coexistence of superconductivity and antiferromagnetic order in $\text{Er}_2\text{O}_2\text{Bi}$ with anti- ThCr_2Si_2 structure. Frontiers of Physics, 2021, 16, 1.	5.0	4
17	Induced Electric Dipole and Giant Ferromagnetism in Janus $\text{P}_2\text{A}_3\text{As}_2$ Monolayers. Physical Review Letters, 2021, 126, 216406.	3.2	1

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19	Revealing the Heavy Quasiparticles in the Heavy-Fermion Superconductor CeCu ₂ Si ₂ . Physical Review Letters, 2021, 127, 067002.	7.8	17
20	Nodeless superconductivity in LuCu_5 with broken time reversal symmetry. Physical Review B, 2021, 103, .	3.2	1
21	Charge density wave and weak Kondo effect in a Dirac semimetal CeSbTe. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	16
22	Interfacial electron-phonon coupling and quantum confinement in ultrathin Yb films on graphite. Physical Review B, 2021, 104, .	3.2	1
23	Shubnikov-de Haas oscillations and electronic structure in the Dirac semimetal SrAgAs. Physical Review B, 2021, 104, .	3.2	2
24	Intense d - p Hybridization Induced a Vast SHG Response Disparity between Tetrahedral Vanadates and Arsenates. Journal of Physical Chemistry C, 2020, 124, 24949-24956.	3.1	8
25	Second Harmonic Generation Susceptibilities from Symmetry Adapted Wannier Functions. Physical Review Letters, 2020, 125, 187402.	7.8	94
26	Enhanced anisotropic superconductivity in the topological nodal-line semimetal In_2S_3 . Physical Review B, 2020, 102, .	3.2	16
27	Electron-phonon coupling and nontrivial band topology in noncentrosymmetric superconductors LaNiSi, LaPtSi, and LaPtGe. Physical Review B, 2020, 101, .	3.2	16
28	Coexistence of nontrivial topological properties and strong ferromagnetic fluctuations in quasi-one-dimensional A ₂ Cr ₃ As ₃ . Npj Computational Materials, 2020, 6, .	8.7	19
29	PrBi: Topology meets quadrupolar degrees of freedom. Physical Review B, 2020, 101, .	3.2	7
30	CaPtAs: A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	26
31	From Trivial Kondo Insulator Ce ₃ Pt ₃ Bi ₄ to Topological Nodal-Line Semimetal Ce ₃ Pd ₃ Bi ₄ . Physical Review Letters, 2020, 124, 166403.	7.8	19
32	Giant anomalous Nernst effect in the magnetic Weyl semimetal Co_3S_2 . Physical Review Materials, 2020, 4, .	2.4	68
33	Prediction of spin polarized Fermi arcs in quasiparticle interference in CeBi. Physical Review B, 2020, 102, .	3.2	7
34	Large Fermi surface expansion through anisotropic mixing of conduction and f electrons in the semimetallic Kondo lattice CeBi. Physical Review B, 2019, 100, .	3.2	12
35	Probing the origin of extreme magnetoresistance in Pr/Sm mono-antimonides/bismuthides. Physical Review B, 2019, 99, .	3.2	12
36	Large magnetoresistance and large magnetothermopower effect in the Dirac material $\text{EuMn}_{0.8}\text{Sb}_2$. Journal of Physics Condensed Matter, 2019, 31, 185701.	1.8	6

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37	Unique crystal field splitting and multiband RKKY interactions in Ni-doped EuRbFe ₄ As ₄ . Communications Physics, 2019, 2, .	5.3	17
38	Lifshitz transition and nontrivial H-doping effect in the Cr-based superconductor $KCr_3As_3H_x$. Physical Review B, 2019, 100, .	3.2	17
39	Angle-dependent magnetoresistance and its implications for Lifshitz transition in W ₂ As ₃ . Npj Quantum Materials, 2019, 4, .	5.2	11
40	Optical signatures of Dirac nodal lines in NbAs ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1168-1173.	7.1	60
41	Pressure induced superconductivity bordering a charge-density-wave state in NbTe ₄ with strong spin-orbit coupling. Scientific Reports, 2018, 8, 6298.	3.3	21
42	Evidence for Weyl fermions in a canonical heavy-fermion semimetal YbPtBi. Nature Communications, 2018, 9, 4622.	12.8	62
43	Quantum transport in a compensated semimetal W_2As_3 with nontrivial indices. Physical Review B, 2018, 98, .	3.2	8
44	Tunable electronic structure and topological properties of LnPn (Ln=Ce, Pr, Sm, Gd, Yb; Pn=Sb, Bi). Communications Physics, 2018, 1, .	5.3	37
45	Module-Guided Design Scheme for Deep-Ultraviolet Nonlinear Optical Materials. Journal of the American Chemical Society, 2018, 140, 10726-10733.	13.7	127
46	Tunable electronic structure and surface states in rare-earth monobismuthides with partially filled f shell. Physical Review B, 2018, 98, .	3.2	31
47	Kondo behavior and metamagnetic phase transition in the heavy-fermion compound $CeBi_2$. Physical Review B, 2018, 97, .	3.2	9
48	Large magnetoresistance and superconductivity in $\hat{\Gamma}$ -gallium single crystals. Npj Quantum Materials, 2018, 3, .	5.2	16
49	Theory for superconductivity in alkali chromium arsenides A ₂ Cr ₃ As ₃ (A = K, Rb, Cs). Science Bulletin, 2017, 62, 208-211.	9.0	40
50	The atomic size effect on hybrid inorganic-organic perovskite $CH_3NH_3Bi_3X_3$ ($X = Pb, Sn$) from first-principles study. Modern Physics Letters B, 2017, 31, 1750139.	1.9	2
51	Electronic structure and topological properties of centrosymmetric MoAs ₂ /WAs ₂ from first principles. Scientific Reports, 2017, 7, 10491.	3.3	6
52	Strain and electric field tunable electronic structure of buckled bismuthene. RSC Advances, 2017, 7, 39546-39555.	3.6	53
53	Magnetoresistance and robust resistivity plateau in MoAs ₂ . Scientific Reports, 2017, 7, 15669.	3.3	25
54	Possible Weyl fermions in the magnetic Kondo system CeSb. Npj Quantum Materials, 2017, 2, .	5.2	55

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55	Emerging novel electronic structure in hydrogen-Arsenene-halogen nanosheets: A computational study. Scientific Reports, 2017, 7, 4773.	3.3	9
56	Electronegativity explanation on the efficiency-enhancing mechanism of the hybrid inorganic-organic perovskite ABX_3 from first-principles study. Chinese Physics B, 2016, 25, 027104.	1.4	21
57	Cadmium and lithium doping in silver orthophosphate: An ab initio study. Scientific Reports, 2016, 6, 32574.	3.3	2
58	Two superconducting domes separated by a possible Lifshitz transition in $LaFeAs_{1-x}P_xO$. Journal of Applied Physics, 2016, 119, 083903.	2.5	7
59	Superconductivity in a new layered nickel selenide $CsNi_2Se_2$. Superconductor Science and Technology, 2016, 29, 045008.	3.5	7
60	The electronic structure of graphene tuned by hexagonal boron nitrogen layers: Semimetal-semiconductor transition. Modern Physics Letters B, 2016, 30, 1650191.	1.9	6
61	Resistivity plateau and negative magnetoresistance in the topological semimetal $TaSb_2$. Physical Review B, 2016, 94, 080401. Electronic structures of transition metal dipnictides	1.2	8

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73	Electronic phase diagram in a new BiS ₂ -based Sr _{1-x} La _x FBiS ₂ system. Superconductor Science and Technology, 2014, 27, 035009.	3.5	25
74	Impact of lattice distortion and electron doping on $\text{I}\pm\text{-MoO}_3$ electronic structure. Scientific Reports, 2014, 4, 7131.	3.3	107
75	The origin of the high work function of chlorinated indium tin oxide. NPG Asia Materials, 2013, 5, e57-e57. Effect of selenium doping on the superconductivity of Nb $\langle\text{mml:math display="inline"}\rangle\langle\text{mml:mrow}$	7.9	41

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#	ARTICLE	IF	CITATIONS
109	Quantum, classical, and multi-scale simulation of silica-water interaction: molecules, clusters, and extended systems. <i>Journal of Computer-Aided Materials Design</i> , 2006, 13, 161-183.	0.7	11
110	From cluster to bulk: Size dependent energetics of silica and silica-water interaction. <i>Journal of Chemical Physics</i> , 2006, 124, 024722.	3.0	13