

Mingliang Tian

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,500
citations

279798

23
h-index

197818

49
g-index

62
all docs

62
docs citations

62
times ranked

3076
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental observation of chiral magnetic bobbars in B20-type FeGe. Nature Nanotechnology, 2018, 13, 451-455.	31.5	243
2	Edge-mediated skyrmion chain and its collective dynamics in a confined geometry. Nature Communications, 2015, 6, 8504.	12.8	199
3	Direct Imaging of a Zero-Field Target Skyrmion and Its Polarity Switch in a Chiral Magnetic Nanodisk. Physical Review Letters, 2017, 119, 197205.	7.8	156
4	Ising Superconductivity and Quantum Phase Transition in Macro-Size Monolayer NbSe ₂ . Nano Letters, 2017, 17, 6802-6807.	9.1	155
5	Transport evidence for the three-dimensional Dirac semimetal phase in $ZrTe_5$. Physical Review B, 2016, 93, .	3.2	144
6	Direct imaging of magnetic field-driven transitions of skyrmion cluster states in FeGe nanodisks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4918-4923.	7.1	125
7	Antisymmetric magnetoresistance in van der Waals Fe ₃ GeTe ₂ /graphite/Fe ₃ GeTe ₂ trilayer heterostructures. Science Advances, 2019, 5, eaaw0409.	10.3	119
8	Extremely Large Magnetoresistance in a Topological Semimetal Candidate Pyrite $PtBi_2$. Physical Review Letters, 2017, 118, 256601.	7.8	114
9	Magnetic skyrmion bundles and their current-driven dynamics. Nature Nanotechnology, 2021, 16, 1086-1091.	31.5	110
10	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. Physical Review Letters, 2018, 120, 197203.	7.8	88
11	Gate-Tuned Interlayer Coupling in van der Waals Ferromagnet $Fe_3Ge_5Te_2$. Nanoflakes. Physical Review Letters, 2020, 125, 047202.	7.8	87
12	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting GaN(0001). Physical Review Letters, 2015, 114, 107003.	7.8	81
13	Probing the chiral anomaly by planar Hall effect in Dirac semimetal Cd_3As_2 nanoplates. Physical Review B, 2018, 98, .	3.2	64
14	A possible candidate for triply degenerate point fermions in trigonal layered PtBi ₂ . Nature Communications, 2018, 9, 3249.	12.8	55
15	Electrical manipulation of skyrmions in a chiral magnet. Nature Communications, 2022, 13, 1593.	12.8	51
16	Gate-Controlled Magnetic Phase Transition in a van der Waals Magnet Fe ₅ Ge ₂ . Nano Letters, 2021, 21, 5599-5605.	9.1	45
17	Enhanced Stability of the Magnetic Skyrmion Lattice Phase under a Tilted Magnetic Field in a Two-Dimensional Chiral Magnet. Nano Letters, 2017, 17, 2921-2927.	9.1	39
18	Interface-Induced Zeeman-Protected Superconductivity in Ultrathin Crystalline Lead Films. Physical Review X, 2018, 8, .	8.9	36

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19	Direct experimental evidence of physical origin of electronic phase separation in manganites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7090-7094.	7.1	35
20	Two-dimensional characterization of three-dimensional magnetic bubbles in Fe ₃ Sn ₂ nanostructures. National Science Review, 2021, 8, nwaa200.	9.5	35
21	Lorentz transmission electron microscopy for magnetic skyrmions imaging*. Chinese Physics B, 2019, 28, 087503.	1.4	34
22	Field-induced topological phase transition from a three-dimensional Weyl semimetal to a two-dimensional massive Dirac metal in $ZrTe_5$. Physical Review B, 2017, 96, .		33
23	Target Bubbles in Fe ₃ Sn ₂ Nanodisks at Zero Magnetic Field. ACS Nano, 2020, 14, 10986-10992.	14.6	31
24	Tailoring Dzyaloshinskii-Moriya interaction in a transition metal dichalcogenide by dual-intercalation. Nature Communications, 2021, 12, 3639.	12.8	28
25	Recognition of Fermi arc states through the magnetoresistance quantum oscillations in Dirac semimetal Cd_3As_2 . Physical Review B, 2019, 99, .	3.2	25
26	Chiral anomaly and nontrivial Berry phase in the topological nodal-line semimetal SrA_3Sb_5 . Physical Review B, 2019, 99, .	3.2	23
27	Evidence of local superconductivity in granular Bi nanowires fabricated by electrodeposition. Physical Review B, 2008, 78, .	3.2	22
28	Mobility-controlled extremely large magnetoresistance in perfect electron-hole compensated WTe_2 crystals. Physical Review B, 2018, 97, .	3.2	22
29	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. ACS Nano, 2022, 16, 11876-11883.	14.6	22
30	Current-Controlled Topological Magnetic Transformations in a Nanostructured Kagome Magnet. Advanced Materials, 2021, 33, e2101610.	21.0	20
31	Electrical and anisotropic magnetic properties in layered Mn _{1/3} TaS ₂ crystals. Applied Physics Letters, 2018, 113, .	3.3	19
32	Interface Modulation and Optimization of Electrical Properties of HfGdO/GaAs Gate Stacks by ALD-Derived Al ₂ O ₃ Passivation Layer and Forming Gas Annealing. Advanced Electronic Materials, 2018, 4, 1700543.	5.1	18
33	Magnetoresistance and Shubnikov-de Haas oscillations in layered Nb_3Sn thin flakes. Physical Review B, 2018, 97, .	3.3	18
34	Extrinsic and Intrinsic Anomalous Metallic States in Transition Metal Dichalcogenide Ising Superconductors. Nano Letters, 2021, 21, 7486-7494.	9.1	18
35	Current-driven transformations of a skyrmion tube and a bobber in stepped nanostructures of chiral magnets. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	17
36	Pressure-induced irreversible evolution of superconductivity in $PdBi_2$. Physical Review B, 2019, 99, .	3.2	16

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37	Reversal and non-reversal ferroelectric polarizations in a Y-type hexaferrite. Journal of Materials Chemistry C, 2019, 7, 340-345.	5.5	14
38	Three-dimensional topological semimetal phase in layered TaNiTe probed by quantum oscillations. Physical Review B, 2021, 103, .	3.2	11
39	Effects of tilted magnetocrystalline anisotropy on magnetic domains in MnTe thin plates. Physical Review B, 2021, 103, .	3.2	11
40	Nonzero electric polarization and four magnetoelectric states at zero magnetic field in Cr-doped Y-type hexaferrite. Applied Physics Letters, 2017, 110, 262901.	3.3	11
41	Magnetic reversal in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ nanosheets probed by anisotropic magnetoresistance. Physical Review B, 2018, 98, .	3.2	11
42	Pressure-induced multiband superconductivity in pyrite PtBi_2 with perfect electron-hole compensation. Physical Review Materials, 2018, 2, .	2.4	9
43	Thickness Dependence of Superconductivity in Layered Topological Superconductor $\hat{\text{I}}^2\text{-PdBi}_2$. Nanomaterials, 2021, 11, 2826.	4.1	9
44	In-plane magnetic anisotropy of the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ nanosheet probed by planar Hall effect. Applied Physics Letters, 2017, 111, .	3.3	7
45	Pressure-induced superconductivity in trigonal layered PtBi_2 with triply degenerate point fermions. Physical Review B, 2021, 103, .	3.2	7
46	Novel $\sqrt{2}$ -Periodic Planar Hall Effect Due to Orbital Magnetic Moments in MnBi_2Te_4 . Nano Letters, 2022, 22, 73-80.	9.1	7
47	Tunable artificial topological Hall effects in van der Waals heterointerfaces. Physical Review B, 2022, 105, .	3.2	7
48	Stabilization and topological transformation of magnetic bubbles in disks of a kagome magnet. Applied Physics Letters, 2021, 119, 012402.	3.3	6
49	Thickness dependence of quantum transport in the topological superconductor candidate SnTaS_2 . Applied Physics Letters, 2022, 120, .	3.3	6
50	Electronic structure of non-centrosymmetric PtBi_2 studied by angle-resolved photoemission spectroscopy. Journal of Applied Physics, 2020, 128, .	2.5	5
51	Visualizing Emergent Magnetic Flux of Antiskyrmions in $\text{Mn}_{1.4}\text{PtSn}$ Magnet. Advanced Functional Materials, 2022, 32, .	14.9	5
52	Effect of pressure on structural and electronic properties of the noncentrosymmetric superconductor $\text{Rh}_2\text{Mo}_3\text{N}$. Physical Review B, 2019, 100, .	3.2	4
53	Superconducting properties of molybdenum ruthenium alloy $\text{Mo}_{0.63}\text{Ru}_{0.37}$. European Physical Journal B, 2018, 91, 1.	1.5	3
54	Field-induced tricritical behavior in the Néel-type skyrmion host GaV_4S_8 . Physical Review B, 2020, 102, .	3.2	3

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55	Signature of Dirac semimetal states in gray arsenic studied by de Haas-van Alphen and Shubnikov-de Haas quantum oscillations. Physical Review B, 2020, 101, .	3.2	3
56	Magnetotransport due to conductivity fluctuations in non-magnetic ZrTe ₂ nanoplates. Applied Physics Letters, 2022, 120, .	3.3	3
57	Magnetic field induced reconstruction of the second magnetic transition in $Sr_3Ru_4O_{13}$. Physical Review Letters, 2020, 125, 077201.	3.2	2
58	Emerging Superconductivity and the Origin of Its Enhancement in Pressurized Topological Nodal-Line Semimetal SrAs ₃ . Advanced Electronic Materials, 2020, 6, 2000293.	5.1	2
59	Weak localization and electron-phonon interaction in layered Zintl phase SrIn ₂ P ₂ single crystal. Journal of Physics Condensed Matter, 2021, 33, 245701.	1.8	1
60	Current-Controlled Topological Magnetic Transformations in a Nanostructured Kagome Magnet (Adv.) Tj ETQq0 0,0 rgBT /Qverlock 10	21.6	1
61	Magnetic field induced reconstruction of electronic structure in $Sr_3Ru_2O_7$ nanosheets. Physical Review B, 2020, 102, .	3.2	0