

# Mingliang Tian

## List of Publications by Year in descending order

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61  
papers

2,500  
citations

279798  
23  
h-index

197818  
49  
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62  
all docs

62  
docs citations

62  
times ranked

3076  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness dependence of quantum transport in the topological superconductor candidate SnTaS <sub>2</sub> . <i>Applied Physics Letters</i> , 2022, 120, .	3.3	6
2	Electrical manipulation of skyrmions in a chiral magnet. <i>Nature Communications</i> , 2022, 13, 1593.	12.8	51
3	Visualizing Emergent Magnetic Flux of Antiskyrmions in Mn <sub>1.4</sub> PtSn Magnet. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	5
4	Novel $\epsilon/2$ -Periodic Planar Hall Effect Due to Orbital Magnetic Moments in MnBi <sub>2</sub> Te <sub>4</sub> . <i>Nano Letters</i> , 2022, 22, 73-80.	9.1	7
5	Magnetotransport due to conductivity fluctuations in non-magnetic ZrTe <sub>2</sub> nanoplates. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	3
6	Tunable artificial topological Hall effects in van der Waals heterointerfaces. <i>Physical Review B</i> , 2022, 105, .	3.2	7
7	Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. <i>ACS Nano</i> , 2022, 16, 11876-11883.	14.6	22
8	Two-dimensional characterization of three-dimensional magnetic bubbles in Fe <sub>3</sub> Sn <sub>2</sub> nanostructures. <i>National Science Review</i> , 2021, 8, nwaa200.	9.5	35
9	Three-dimensional topological semimetal phase in layered $\text{TaNi}_{2-x}\text{Te}_x$ probed by quantum oscillations. <i>Physical Review B</i> , 2021, 103, .	9.1	13
10	Pressure-induced superconductivity in trigonal layered $\text{PtBi}_{2+x}$ with triply degenerate point fermions. <i>Physical Review B</i> , 2021, 103, .	9.1	17
11	Weak localization and electron-phonon interaction in layered Zintl phase SrIn <sub>2</sub> P <sub>2</sub> single crystal. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 245701.	1.8	1
12	Tailoring Dzyaloshinskii-Moriya interaction in a transition metal dichalcogenide by dual-intercalation. <i>Nature Communications</i> , 2021, 12, 3639.	12.8	28
13	Gate-Controlled Magnetic Phase Transition in a van der Waals Magnet Fe <sub>5</sub> GeTe <sub>2</sub> . <i>Nano Letters</i> , 2021, 21, 5599-5605.	9.1	45
14	Effects of tilted magnetocrystalline anisotropy on magnetic domains in Fe <sub>3</sub> Al <sub>2</sub> thin plates. <i>Physical Review B</i> , 2021, 103, .	9.1	10
15	Stabilization and topological transformation of magnetic bubbles in disks of a kagome magnet. <i>Applied Physics Letters</i> , 2021, 119, 012402.	3.3	6
16	Current-controlled Topological Magnetic Transformations in a Nanostructured Kagome Magnet. <i>Advanced Materials</i> , 2021, 33, e2101610.	21.0	20
17	Magnetic skyrmion bundles and their current-driven dynamics. <i>Nature Nanotechnology</i> , 2021, 16, 1086-1091.	31.5	110
18	Extrinsic and Intrinsic Anomalous Metallic States in Transition Metal Dichalcogenide Ising Superconductors. <i>Nano Letters</i> , 2021, 21, 7486-7494.	9.1	18

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19	Current-controlled Topological Magnetic Transformations in a Nanostructured Kagome Magnet (Adv.) $T_f$ ETQq1 10.784314 rgBT /Ove	21.0	1
20	Current-driven transformations of a skyrmion tube and a bobber in stepped nanostructures of chiral magnets. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	17
21	Thickness Dependence of Superconductivity in Layered Topological Superconductor $\hat{t}^2\text{-PdBi}_2$ . <i>Nanomaterials</i> , 2021, 11, 2826.	4.1	9
22	Electronic structure of non-centrosymmetric PtBi <sub>2</sub> studied by angle-resolved photoemission spectroscopy. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	5
23	Gate-Tuned Interlayer Coupling in van der Waals Ferromagnet $\text{Fe}_{3-x}\text{Sn}_{2x}$ Nanoflakes. <i>Physical Review Letters</i> , 2020, 125, 047202.	7.8	87
24	Emerging Superconductivity and the Origin of Its Enhancement in Pressurized Topological Nodal-Line Semimetal SrAs <sub>3</sub> . <i>Advanced Electronic Materials</i> , 2020, 6, 2000293.	5.1	2
25	Target Bubbles in Fe <sub>3</sub> Sn <sub>2</sub> Nanodisks at Zero Magnetic Field. <i>ACS Nano</i> , 2020, 14, 10986-10992.	14.6	31
26	Field-induced tricritical behavior in the Néel-type skyrmion host GaV <sub>4</sub> S <sub>8</sub> . <i>Physical Review B</i> , 2020, 102, .	3.2	3
27	Signature of Dirac semimetal states in gray arsenic studied by de Haas-van Alphen and Shubnikov-de Haas quantum oscillations. <i>Physical Review B</i> , 2020, 101, .	3.2	3
28	Direct experimental evidence of physical origin of electronic phase separation in manganites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7090-7094.	7.1	35
29	Magnetic field induced reconstruction of electronic structure in $\text{Sr}_{3-x}\text{Ru}_{2x}$ nanosheets. <i>Physical Review B</i> , 2020, 102, .	3.2	0
30	Lorentz transmission electron microscopy for magnetic skyrmions imaging*. <i>Chinese Physics B</i> , 2019, 28, 087503.	1.4	34
31	Antisymmetric magnetoresistance in van der Waals Fe <sub>3</sub> GeTe <sub>2</sub> /graphite/Fe <sub>3</sub> GeTe <sub>2</sub> trilayer heterostructures. <i>Science Advances</i> , 2019, 5, eaaw0409.	10.3	119
32	Chiral anomaly and nontrivial Berry phase in the topological nodal-line semimetal $\text{Sr}_A\text{S}_{3-x}\text{Mn}_x$ . <i>Physical Review B</i> , 2019, 99, 075101. <small>of the second magnetic transition in chiral metal</small>	3.2	23
33	Physical Review B, 2019, 99, 075101. <small>of the second magnetic transition in chiral metal</small>	3.2	2
34	Effect of pressure on structural and electronic properties of the noncentrosymmetric superconductor Rh <sub>2</sub> Mo <sub>3</sub> N. <i>Physical Review B</i> , 2019, 100, .	3.2	4
35	Reversal and non-reversal ferroelectric polarizations in a Y-type hexaferrite. <i>Journal of Materials Chemistry C</i> , 2019, 7, 340-345.	5.5	14
36	Pressure-induced irreversible evolution of superconductivity in $\text{PdB}_{2-x}\text{Mo}_{2x}$ . <i>Physical Review B</i> , 2019, 99, .	3.2	16

#	ARTICLE	IF	CITATIONS
37	Interface Modulation and Optimization of Electrical Properties of HfGdO/GaAs Gate Stacks by ALD-Derived Al <sub>2</sub> O <sub>3</sub> Passivation Layer and Forming Gas Annealing. <i>Advanced Electronic Materials</i> , 2018, 4, 1700543.	5.1	18
38	Interface-Induced Zeeman-Protected Superconductivity in Ultrathin Crystalline Lead Films. <i>Physical Review X</i> , 2018, 8, .	8.9	36
39	Experimental observation of chiral magnetic bobbers in B20-type FeGe. <i>Nature Nanotechnology</i> , 2018, 13, 451-455.	31.5	243
40	Superconducting properties of molybdenum ruthenium alloy Mo0.63Ru0.37. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	3
41	Probing the chiral anomaly by planar Hall effect in Dirac semimetal $\text{Cd}_{\text{mml}}$ . <i>Physical Review B</i> , 2018, 98, . Mobility-controlled extremely large magnetoresistance in perfect electron-hole compensated $\text{Nb}_{\text{mml}}$ .	3.2	104
42	$\text{W}_{\text{mml}}^{\pm}$ in layered $\text{Nb}_{\text{mml}}$ crystals. <i>Physical Review B</i> , 2018, 97, . $\text{Nb}_{\text{mml}}$ thin flakes. <i>Physical Review B</i> , 2018, 97, .	3.2	22
43	Magnetic reversal in Sr <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> nanosheets probed by anisotropic magnetoresistance. <i>Physical Review B</i> , 2018, 98, .	3.2	11
44	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. <i>Physical Review Letters</i> , 2018, 120, 197203.	7.8	88
45	Electrical and anisotropic magnetic properties in layered Mn <sub>1/3</sub> TaS <sub>2</sub> crystals. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	19
46	A possible candidate for triply degenerate point fermions in trigonal layered PtBi <sub>2</sub> . <i>Nature Communications</i> , 2018, 9, 3249.	12.8	55
47	Pressure-induced multiband superconductivity in pyrite $\text{PtB}_{\text{mml}}$ with perfect electron-hole compensation. <i>Physical Review Materials</i> , 2018, 2, .	2.4	9
48	Enhanced Stability of the Magnetic Skyrmion Lattice Phase under a Tilted Magnetic Field in a Two-Dimensional Chiral Magnet. <i>Nano Letters</i> , 2017, 17, 2921-2927.	9.1	39
49	Ising Superconductivity and Quantum Phase Transition in Macro-Size Monolayer NbSe <sub>2</sub> . <i>Nano Letters</i> , 2017, 17, 6802-6807. Recognition of Fermi arc states through the magnetoresistance quantum oscillations in Dirac semimetal $\text{NbSe}_{\text{mml}}$ .	9.1	155
50	$\text{NbSe}_{\text{mml}}$ Field-induced topological phase transition from a three-dimensional Weyl semimetal to a two-dimensional massive Dirac metal in $\text{NbSe}_{\text{mml}}$ . <i>Physical Review B</i> , 2017, 96, .	3.2	25
51	In-plane magnetic anisotropy of the Sr <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> nanosheet probed by planar Hall effect. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	7
52	Direct Imaging of a Zero-Field Target Skyrmion and Its Polarity Switch in a Chiral Magnetic Nanodisk. <i>Physical Review Letters</i> , 2017, 119, 197205.	7.8	156

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55	Nonzero electric polarization and four magnetoelectric states at zero magnetic field in Cr-doped Y-type hexaferrite. <i>Applied Physics Letters</i> , 2017, 110, 262901.		3.3	11
56	Extremely Large Magnetoresistance in a Topological Semimetal Candidate Pyrite $\text{PtBi}_{2.8}$ . <i>Physical Review Letters</i> , 2017, 118, 256601.		7.8	114
57	Direct imaging of magnetic field-driven transitions of skyrmion cluster states in FeGe nanodisks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4918-4923.		7.1	125
58	Transport evidence for the three-dimensional Dirac semimetal phase in $\text{ZrT}_{5.5}$ . <i>Physical Review B</i> , 2016, 93, .		3.2	144
59	Detection of a Superconducting Phase in a Two-Atom Layer of Hexagonal Ga Film Grown on Semiconducting GaN(0001). <i>Physical Review Letters</i> , 2015, 114, 107003.		7.8	81
60	Edge-mediated skyrmion chain and its collective dynamics in a confined geometry. <i>Nature Communications</i> , 2015, 6, 8504.		12.8	199
61	Evidence of local superconductivity in granular Bi nanowires fabricated by electrodeposition. <i>Physical Review B</i> , 2008, 78, .		3.2	22