

# 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  
g-index

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



#	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. Advanced Electronic Materials, 2018, 4, 1700543.	5.1	18
38	Interface-Induced Zeeman-Protected Superconductivity in Ultrathin Crystalline Lead Films. Physical Review X, 2018, 8, .	8.9	36
39	Experimental observation of chiral magnetic bobbers in B20-type FeGe. Nature Nanotechnology, 2018, 13, 451-455.	31.5	243
40	Superconducting properties of molybdenum ruthenium alloy Mo <sub>0.63</sub> Ru <sub>0.37</sub> . European Physical Journal B, 2018, 91, 1.	1.5	3
41	Probing the chiral anomaly by planar Hall effect in Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> nanolayers. Physical Review B, 2018, 98, .	3.2	22
42	Mobility-controlled extremely large magnetoresistance in perfect electron-hole compensated crystals. Physical Review B, 2018, 97, .	3.2	22
43	Magnetoresistance and Shubnikov-de Haas oscillations in layered Nb <sub>3</sub> Te <sub>2</sub> thin flakes. Physical Review B, 2018, 97, .	3.2	18
44	Magnetic reversal in Sr <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> nanosheets probed by anisotropic magnetoresistance. Physical Review B, 2018, 98, .	3.2	11
45	Interaction of Individual Skyrmions in a Nanostructured Cubic Chiral Magnet. Physical Review Letters, 2018, 120, 197203.	7.8	88
46	Electrical and anisotropic magnetic properties in layered Mn <sub>1/3</sub> TaS <sub>2</sub> crystals. Applied Physics Letters, 2018, 113, .	3.3	19
47	A possible candidate for triply degenerate point fermions in trigonal layered PtBi <sub>2</sub> . Nature Communications, 2018, 9, 3249.	12.8	55
48	Pressure-induced multiband superconductivity in pyrite PtB <sub>2</sub> i <sub>2</sub> with perfect electron-hole compensation. Physical Review Materials, 2018, 2, .	2.4	9
49	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
50	Ising Superconductivity and Quantum Phase Transition in Macro-Size Monolayer NbSe <sub>2</sub> . Nano Letters, 2017, 17, 6802-6807.	9.1	155
51	Revealing the Fermi surfaces through the magnetoresistance quantum oscillations in Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> . Physical Review B, 2017, 96, .	3.2	25
52	Field-induced topological phase transition from a three-dimensional Weyl semimetal to a two-dimensional massive Dirac metal in ZrTe <sub>5</sub> . Physical Review B, 2017, 96, .	3.2	33
53	In-plane magnetic anisotropy of the Sr <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> nanosheet probed by planar Hall effect. Applied Physics Letters, 2017, 111, .	3.3	7
54	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

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55	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
56	Extremely Large Magnetoresistance in a Topological Semimetal Candidate Pyrite $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mrow} \langle \text{mml:mi} \text{PtBi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \langle 2 \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \rangle \rangle \rangle \rangle \rangle$ Physical Review Letters, 2017, 118, 256601.	7.8	114
57	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
58	Transport evidence for the three-dimensional Dirac semimetal phase in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{ZrT} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mn} \langle 5 \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msub} \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \rangle \rangle \rangle \rangle$ Physical Review B, 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). Physical Review Letters, 2015, 114, 107003.	7.8	81
60	Edge-mediated skyrmion chain and its collective dynamics in a confined geometry. Nature Communications, 2015, 6, 8504.	12.8	199
61	Evidence of local superconductivity in granular Bi nanowires fabricated by electrodeposition. Physical Review B, 2008, 78, .	3.2	22