

# Weiyao Zhao

## List of Publications by Year in descending order

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papers

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687220

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Lamellae preparation for atomic-resolution STEM imaging from ion-beam-sensitive topological insulator crystals. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 033203.	0.9	0
2	Berry phase in quantum oscillations of topological materials. <i>Advances in Physics: X</i> , 2022, 7, .	1.5	2
3	Magnetotransport and Berry phase tuning in Gd-doped $\text{Bi}_2\text{Te}_3$ topological insulator single crystals. <i>Physical Review Materials</i> , 2022, 6, .	2.9	1
4	Anisotropic giant magnetoresistance and Fermi surface topology in the layered compound $\text{YbBi}_2\text{Te}_3$ . <i>Physical Review B</i> , 2022, 105, .	2.1	1
5	Topological insulator $\text{VxBi}_{1.08}\text{Sn}_{0.02}\text{Sb}_{0.9}\text{Te}_2\text{S}$ as a promising n-type thermoelectric material. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165550.	2.8	3
6	Cross-over from weak localization to anti-localization in rare earth doped TRS protected topological insulators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 385, 126953.	0.9	6
7	Magneto-transport and electronic structures in $\text{MoSi}_2$ bulks and thin films with different orientations. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157670.	2.8	4
8	Observation of itinerant ferromagnetism and coupled magnetoresistance in a spinel $\text{CuCo}_2\text{S}_4$ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 8874-8881.	2.7	3
9	Topological quantum phase transition in the magnetic semimetal $\text{HoSb}$ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 6996-7004.	2.7	4
10	Giant linear magnetoresistance in half-metallic $\text{Sr}_2\text{CrMoO}_6$ thin films. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	15
11	Massive Dirac fermions and strong Shubnikov-de Haas oscillations in single crystals of the topological insulator $\text{Bi}_2\text{Te}_3$ doped with Sm and Fe. <i>Physical Review B</i> , 2021, 104, .	2.1	6
12	Quantum oscillations and quasilinear magnetoresistance in the topological semimetal candidate $\text{ScSn}_2$ . <i>Physical Review B</i> , 2021, 104, .	2.1	1
13	Electronic Transport Properties of $\text{NbTa}_2\text{Sb}_2$ Single-Crystal Semimetals Grown by a Chemical Vapor Transport Based High-Throughput Method. <i>Crystal Growth and Design</i> , 2021, 21, 653-662.	1.4	5
14	Colossal Magnetoresistance in $\text{TiCr}_2\text{Se}_3$ Single Crystals with a Layered Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58949-58955.	4.0	7
15	Boosting the superconducting properties of $\text{Fe}(\text{Se}, \text{Te})$ through hexagonal phase manipulation. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152683.	2.8	7
16	Magnetotransport properties of square-net compounds of $\text{NbSiSb}$ and $\text{NbGeSb}$ single crystals. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 435701.	0.7	3
17	Magnetic plasmon resonances in nanostructured topological insulators for strongly enhanced light-MoS <sub>2</sub> interactions. <i>Light: Science and Applications</i> , 2020, 9, 191.	7.7	52
18	Anisotropic and extreme magnetoresistance in the magnetic semimetal candidate erbium monobismuthide. <i>Physical Review B</i> , 2020, 102, .	1.1	12

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19	Creating thin magnetic layers at the surface of Sb <sub>2</sub> Te <sub>3</sub> topological insulators using a low-energy chromium ion beam. Applied Physics Letters, 2020, 116, .	1.5	6
20	Graphene inclusion induced ultralow thermal conductivity and improved figure of merit in p-type SnSe. Nanoscale, 2020, 12, 12760-12766.	2.8	16
21	Magnetic-field-induced nontrivial electronic state in the Kondo-lattice semimetal CeSb. Physical Review B, 2020, 101, .	1.1	18
22	Magnetotransport and magnetic properties of the layered noncollinear antiferromagnetic Cr <sub>2</sub> Se <sub>3</sub> single crystals. Journal of Physics Condensed Matter, 2020, 32, 475801.	0.7	11
23	Pressure effect on the topologically nontrivial electronic state and transport of lutecium monobismuthide. Physical Review Materials, 2020, 4, .	0.9	7
24	Spin reorientation and rare earth antiferromagnetic transition in single crystal Sm <sub>0.15</sub> Dy <sub>0.85</sub> FeO <sub>3</sub> . Journal of Alloys and Compounds, 2019, 804, 396-400.	2.8	11
25	Modulation of Crystal and Electronic Structures in Topological Insulators by Rare-Earth Doping. ACS Applied Electronic Materials, 2019, 1, 1929-1936.	2.0	7
26	Room-Temperature Reversible and Nonvolatile Tunability of Electrical Properties of Cr-Doped In <sub>2</sub> O <sub>3</sub> Semiconductor Thin Films Gated by Ferroelectric Single Crystal and Ionic Liquid. Advanced Electronic Materials, 2019, 5, 1900212.	2.6	8
27	Enhancement of superconducting properties in polycrystalline Fe(Se, Te) via a dual coordination effect. Scripta Materialia, 2019, 169, 19-22.	2.6	8
28	Electronic Transport Evidence for Topological Nodal-Line Semimetals of ZrGeSe Single Crystals. ACS Applied Electronic Materials, 2019, 1, 869-876.	2.0	26
29	Quantum oscillations in iron doped single crystals of the topological insulator $Sb_{2-x}Te_3$ . Physical Review Letters, 2019, 123, 076401.	1.1	26
30	Boosting Superconducting Properties of Fe(Se, Te) via Dual-Oscillation Phenomena Induced by Fluorine Doping. ACS Applied Materials & Interfaces, 2019, 11, 18825-18832.	4.0	11
31	Manipulation of the Electronic Transport Properties of Charge-Transfer Oxide Thin Films of NdNiO <sub>3</sub> Using Graphene Electrode. ACS Applied Materials & Interfaces, 2019, 11, 18825-18832.	1.5	12
32	Nonvolatile and Reversible Ferroelectric Control of Electronic Properties of Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator Thin Films Grown on Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> "PbTiO <sub>3</sub> " Single Crystals. ACS Applied Materials & Interfaces, 2019, 11, 9548-9556.	4.0	15
33	Quantum oscillations of robust topological surface states up to 500 K in thick bulk-insulating topological insulator. Npj Quantum Materials, 2019, 4, .	1.8	20
34	Extreme magnetoresistance and SdH oscillation in compensated semimetals of NbSb <sub>2</sub> single crystals. Journal of Applied Physics, 2018, 123, .	1.1	11
35	The role of doping in spin reorientation and terahertz spin waves in SmDyFeO <sub>3</sub> single crystals. Journal Physics D: Applied Physics, 2018, 51, 024001.	1.3	7
36	Excellent structural, optical, and electrical properties of Nd-doped BaSnO <sub>3</sub> transparent thin films. Applied Physics Letters, 2018, 113, .	1.5	19

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37	Reversible and nonvolatile manipulation of the electronic transport properties of topological insulators by ferroelectric polarization switching. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	19
38	Reversible and nonvolatile ferroelectric control of two-dimensional electronic transport properties of ZrCuSiAs-type copper oxyselenide thin films with a layered structure. <i>Physical Review Materials</i> , 2018, 2, .	0.9	7
39	Temperature and Magnetic Field-Induced Spin Reorientation in Rare-Earth Perovskite ErFe <sub>0.75</sub> Cr <sub>0.25</sub> O <sub>3</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2017, 30, 2791-2796.	0.8	7
40	Hetero-seed and hetero-feed single crystal growth of Sm <sub>x</sub> Dy <sub>1-x</sub> FeO <sub>3</sub> perovskites based on optical floating zone method. <i>Journal of Crystal Growth</i> , 2017, 467, 111-115.	0.7	7
41	Magnetic phase transition and giant anisotropic magnetic entropy change in TbFeO <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	46
42	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. <i>Scientific Reports</i> , 2016, 6, 37529.	1.6	31
43	Semiconductor/Piezoelectrics Hybrid Heterostructures with Highly Effective Gate-Tunable Electrotransport and Magnetic Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26932-26937.	4.0	19
44	Temperature-induced spin reorientation and magnetization jump of rare-earth orthoferrite Ho <sub>0.5</sub> Pr <sub>0.5</sub> FeO <sub>3</sub> single crystal. <i>Journal of Alloys and Compounds</i> , 2016, 674, 300-304.	2.8	15
45	Spin reorientation transition in dysprosium-samarium orthoferrite single crystals. <i>Physical Review B</i> , 2015, 91, .	1.1	65