

# Jinyu Liu

## List of Publications by Year in descending order

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43  
papers

1,787  
citations

361296  
20  
h-index

289141  
40  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. <i>Physical Review Letters</i> , 2016, 117, 016602.	2.9	378
2	A van der Waals antiferromagnetic topological insulator with weak interlayer magnetic coupling. <i>Nature Communications</i> , 2020, 11, 97.	5.8	176
3	A magnetic topological semimetal $\text{Sr}_{1-y}\text{Mn}_1\text{zSb}_2$ ( $y, z \ll 0.1$ ). <i>Nature Materials</i> , 2017, 16, 905-910.	13.3	135
4	Nearly massless Dirac fermions and strong Zeeman splitting in the nodal-line semimetal ZrSiS probed by de Haas-van Alphen quantum oscillations. <i>Physical Review B</i> , 2017, 96, .	1.1	125
5	Realization of an intrinsic ferromagnetic topological state in $\text{MnBi}_8\text{Te}_{13}$ . <i>Science Advances</i> , 2020, 6, eaba4275.	4.7	122
6	$\pi$ -Berry phase and Zeeman splitting of Weyl semimetal TaP. <i>Scientific Reports</i> , 2016, 6, 18674.	1.6	117
7	Nearly massless Dirac fermions hosted by Sb square net in $\text{BaMnSb}_2$ . <i>Scientific Reports</i> , 2016, 6, 30525.	1.6	75
8	Thermal Transport in Quasi-1D van der Waals Crystal $\text{Ta}_2\text{Pd}_3\text{Se}_8$ Nanowires: Size and Length Dependence. <i>ACS Nano</i> , 2018, 12, 2634-2642.	7.3	61
9	Quantum oscillation studies of the topological semimetal candidate $\text{ZrGeM}$ . <i>Physical Review B</i> , 2020, 102, .	1.1	60
10	Enhanced electron coherence in atomically thin $\text{Nb}_3\text{SiTe}_6$ . <i>Nature Physics</i> , 2015, 11, 471-476.	6.5	46
11	$\text{NdCl}_2$ -type antiferromagnetic order and magnetic field-temperature phase diagram in the spin-rare-earth honeycomb compound $\text{YbCl}_3$ . <i>Physical Review B</i> , 2020, 102, .	1.1	40
12	Competition Between Antiferromagnetism and Ferromagnetism in $\text{Sr}_2\text{RuO}_4$ Probed by Mn and Co Doping. <i>Scientific Reports</i> , 2013, 3, 2950.	1.6	39
13	Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. <i>Nano Letters</i> , 2016, 16, 6188-6195.	4.5	37
14	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of $\text{NbSe}_3$ Nanowires. <i>Nano Letters</i> , 2019, 19, 415-421.	4.5	37
15	Unusual interlayer quantum transport behavior caused by the zeroth Landau level in $\text{YbMnBi}_2$ . <i>Nature Communications</i> , 2017, 8, 646.	5.8	35
16	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	33
17	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal $\text{BaMnSb}_2$ . <i>Nature Communications</i> , 2021, 12, 4062.	5.8	32
18	Charge modulation and structural transformation in $\text{TaTe}_2$ studied by scanning tunneling microscopy/spectroscopy. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	26

#	ARTICLE	IF	CITATIONS
19	Nontrivial topology in the layered Dirac nodal-line semimetal candidate $\text{SrZnSb}_2$ with distorted Sb square nets. Physical Review B, 2019, 100, .		
20	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. Nature Communications, 2018, 9, 4656.	5.8	21
21	Dimensional reduction and ionic gating induced enhancement of superconductivity in atomically thin crystals of $2\text{H-TaSe}_2$ . Nanotechnology, 2019, 30, 035702.	1.3	17
22	Lithium ion intercalation in thin crystals of hexagonal $\text{TaSe}_2$ gated by a polymer electrolyte. Applied Physics Letters, 2018, 112, 023502.	1.5	16
23	High yield production of ultrathin fibroid semiconducting nanowire of $\text{Ta}_2\text{Pd}_3\text{Se}_8$ . Nano Research, 2020, 13, 1627-1635.	5.8	16
24	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. Nano Letters, 2021, 21, 4887-4893.	4.5	15
25	Using coherent phonons for ultrafast control of the Dirac node of $\text{SrMnSb}_2$ . Physical Review B, 2018, 98, .	1.1	14
26	Ion intercalation engineering of electronic properties of two-dimensional crystals of $2\text{H}\alpha\text{-TaSe}_2$ . Physical Review Materials, 2019, 3, .	0.9	13
27	Spin-orbit coupling and weak antilocalization in the thermoelectric material $\text{Bi}_2\text{Se}_3$ . Journal of Physics Condensed Matter, 2014, 26, 095801.	0.7	10
28	Mott transition controlled by lattice-orbital coupling in 3d -metal-doped double-layer ruthenates. Physical Review B, 2017, 96, .	1.1	10
29	Magnetic phase separation in double layer ruthenates $\text{Ca}_3(\text{Ru}_{1-x}\text{Ti}_x)\text{O}_7$ . Scientific Reports, 2016, 6, 19462.	1.6	8
30	Toward tunable quantum transport and novel magnetic states in $\text{Eu}_{1-x}\text{Sr}_x\text{Mn}_2\text{Sb}_2$ ( $z \leq 0.05$ ). NPC Asia Materials, 2022, 14, .	3.8	8
31	Weak ferromagnetism of $\text{Cu}_x\text{Fe}_{1-x}\text{Sb}_2$ . Physical Review B, 2017, 96, 040407.	1.1	7
32	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric $\text{Sr}_{1-x}\text{Mn}_x\text{Sb}_2$ . Physical Review B, 2017, 96, 040407.		

#	ARTICLE	IF	CITATIONS
37	Electron mass enhancement and magnetic phase separation near the Mott transition in double-layer ruthenates. <i>Frontiers of Physics</i> , 2018, 13, 1.	2.4	3
38	Magnetic-Field-Induced Re-entrance of Superconductivity in Ta <sub>2</sub> PdS <sub>5</sub> Nanostrips. <i>Nano Letters</i> , 2021, 21, 288-297.	4.5	3
39	Nontrivial paired states in novel topological superconductors. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156498.	2.8	2
40	Extremely large anisotropic transport caused by electronic phase separation in Ti-doped Ca <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Journal Physics D: Applied Physics</i> , 2016, 49, 245004.	1.3	1
41	Thin-film growth and structural characterization of a novel layered iridate Ba <sub>7</sub> Ir <sub>3</sub> O <sub>13</sub> + <i>δ</i> . <i>Semiconductor Science and Technology</i> , 2019, 34, 025002.	1.0	0
42	Coupled electronic and magnetic relaxation in Fe <sub>1+y</sub> Te: direct evidence for the interaction between itinerant carriers and local moments. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 025601.	0.7	0
43	Pressure tuning of the Berry phase in $\text{BaMnSb}_2$ . <i>Physical Review B</i> , 2022, 105, .		