

# Jinyu Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

1,129  
citations

16  
h-index

33  
g-index

45  
ext. papers

1,565  
ext. citations

7.1  
avg, IF

4.11  
L-index

#	Paper	IF	Citations
40	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. <i>Nano Letters</i> , <b>2021</b> , 21, 4887-4893	11.5	5
39	Magnetic-Field-Induced Re-entrance of Superconductivity in TaPdS Nanostrips. <i>Nano Letters</i> , <b>2021</b> , 21, 288-297	11.5	0
38	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb. <i>Nature Communications</i> , <b>2021</b> , 12, 4062	17.4	4
37	High yield production of ultrathin fibroid semiconducting nanowire of Ta <sub>2</sub> Pd <sub>3</sub> Se <sub>8</sub> . <i>Nano Research</i> , <b>2020</b> , 13, 1627-1635	10	8
36	A van der Waals antiferromagnetic topological insulator with weak interlayer magnetic coupling. <i>Nature Communications</i> , <b>2020</b> , 11, 97	17.4	98
35	Néel-type antiferromagnetic order and magnetic field-temperature phase diagram in the spin-12 rare-earth honeycomb compound YbCl <sub>3</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	13
34	Realization of an intrinsic ferromagnetic topological state in MnBiTe. <i>Science Advances</i> , <b>2020</b> , 6, eaba4275	14.3	47
33	Nontrivial paired states in novel topological superconductors. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 848, 156498	5.7	1
32	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric Sr <sub>1-x</sub> Mn <sub>1-z</sub> Sb <sub>2</sub> (y~0.07, z~0.02). <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
31	Ion intercalation engineering of electronic properties of two-dimensional crystals of 2H-TaSe <sub>2</sub> . <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	4
30	Nontrivial topology in the layered Dirac nodal-line semimetal candidate SrZnSb <sub>2</sub> with distorted Sb square nets. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	11
29	Spin-flop phase transition in the orthorhombic antiferromagnetic topological semimetal Cu <sub>0.95</sub> MnAs. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 469, 570-573	2.8	3
28	Thin-film growth and structural characterization of a novel layered iridate Ba <sub>7</sub> Ir <sub>3</sub> O <sub>13</sub> + $\delta$ <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 025002	1.8	
27	Dimensional reduction and ionic gating induced enhancement of superconductivity in atomically thin crystals of 2H-TaSe. <i>Nanotechnology</i> , <b>2019</b> , 30, 035702	3.4	11
26	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 415-421	11.5	20
25	Thermal Transport in Quasi-1D van der Waals Crystal TaPdSe Nanowires: Size and Length Dependence. <i>ACS Nano</i> , <b>2018</b> , 12, 2634-2642	16.7	50
24	Lithium ion intercalation in thin crystals of hexagonal TaSe <sub>2</sub> gated by a polymer electrolyte. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 023502	3.4	13

23	Signature of quantum Griffiths singularity state in a layered quasi-one-dimensional superconductor. <i>Nature Communications</i> , <b>2018</b> , 9, 4656	17.4	17
22	Angle-dependent magnetoresistance as a sensitive probe of the charge density wave in quasi-one-dimensional semimetal Ta <sub>2</sub> NiSe <sub>7</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 113, 192401	3.4	1
21	Using coherent phonons for ultrafast control of the Dirac node of SrMnSb <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	8
20	Electron mass enhancement and magnetic phase separation near the Mott transition in double-layer ruthenates. <i>Frontiers of Physics</i> , <b>2018</b> , 13, 1	3.7	2
19	Mott transition controlled by lattice-orbital coupling in 3d-metal-doped double-layer ruthenates. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	7
18	Unusual interlayer quantum transport behavior caused by the zeroth Landau level in YbMnBi. <i>Nature Communications</i> , <b>2017</b> , 8, 646	17.4	26
17	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> , <b>2017</b> , 96,	3.3	87
16	A magnetic topological semimetal SrMnSb (y, z) <i>Nature Materials</i> , <b>2017</b> , 16, 905-910	2.7	87
15	Band dependence of charge density wave in quasi-one-dimensional Ta <sub>2</sub> NiSe <sub>7</sub> probed by orbital magnetoresistance. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 052405	3.4	2
14	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 223102	2.5	27
13	Quantum oscillation studies of the topological semimetal candidate ZrGeM (M=S, Se, Te). <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	44
12	Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. <i>Nano Letters</i> , <b>2016</b> , 16, 6188-6195	11.5	24
11	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. <i>Physical Review Letters</i> , <b>2016</b> , 117, 016602	7.4	270
10	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> , <b>2016</b> , 49, 245004	3	1
9	Charge modulation and structural transformation in TaTe <sub>2</sub> studied by scanning tunneling microscopy/spectroscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 021901	3.4	16
8	Magnetic phase separation in double layer ruthenates Ca <sub>3</sub> (Ru(1-x)Ti(x)) <sub>2</sub> O <sub>7</sub> . <i>Scientific Reports</i> , <b>2016</b> , 6, 19462	4.9	7
7	Berry phase and Zeeman splitting of Weyl semimetal TaP. <i>Scientific Reports</i> , <b>2016</b> , 6, 18674	4.9	91
6	Normal and inverse bulk spin valve effects in single-crystal ruthenates. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 162402	3.4	2

- 5 Nearly massless Dirac fermions hosted by Sb square net in BaMnSb<sub>2</sub>. *Scientific Reports*, **2016**, 6, 30525 4.9 46
- 4 Enhanced electron coherence in atomically thin Nb<sub>3</sub>SiTe<sub>6</sub>. *Nature Physics*, **2015**, 11, 471-476 16.2 31
- 3 Weak ferromagnetism of Cu<sub>x</sub>Fe<sub>1+y</sub>As and its evolution with Co doping. *Physical Review B*, **2015**, 91, 3.3 5
- 2 Spin-orbit coupling and weak antilocalization in the thermoelectric material  $\text{KBiSe}_2$ . *Journal of Physics Condensed Matter*, **2014**, 26, 095801 1.8 7
- 1 Competition between antiferromagnetism and ferromagnetism in Sr<sub>2</sub>RuO<sub>4</sub> probed by Mn and Co doping. *Scientific Reports*, **2013**, 3, 2950 4.9 28