Yu Liu

List of Publications by Year
in descending order

60 papers	2,023 citations	257357 24 h-index	243529 44 g-index
62 all docs	62 docs citations	62 times ranked	2743 citing authors

#	Article	IF	Citations
1	Thermal transport and mixed valence in ZrTe3 doped with Hf and Se. Applied Physics Letters, 2022, 120, .	1.5	4
2	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
3	Electrical and thermal transport in van der Waals magnets 2Hâ^'MxTaS2Â(M=Mn,ÂCo). Physical Review Research, 2022, 4, .	1.3	5
4	Thermoelectricity and electronic correlation enhancement in FeS by light Se doping. Physical Review B, 2022, 105, .	1.1	3
5	Polaronic Conductivity in Cr₂Ge₂Te₆ Single Crystals. Advanced Functional Materials, 2022, 32, .	7.8	7
6	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	7.3	149
7	Anomalous Hall effect in the weak-itinerant ferrimagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeCr</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2021, 103, .	1.1	10
8	Three-dimensional ferromagnetism and magnetotransport in van der Waals Mn-intercalated tantalum disufide. Physical Review B, 2021, 103, .	1.1	12
9	Synthesis and Characterization of Ultrathin FeTe₂ Nanocrystals. ACS Omega, 2021, 6, 10537-10546.	1.6	9
10	Suppression of thermal conductivity and electronic correlations in Fe1â^'xRuxSb2 (0) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	3
11	Surface oxidation in a van der Waals ferromagnet Fe3-xGeTe2. Current Applied Physics, 2021, 30, 40-45.	1.1	8
12	Polaronic transport and thermoelectricity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mn>3</m single crystals. Physical Review B, 2021, 103, .	1.1	16
13	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. Nano Letters, 2021, 21, 5782-5787.	4.5	2
14	Probing charge density wave phases and the Mott transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi></ by inelastic light scattering. Physical Review B, 2021, 103, .	1.1	10
15	Magnetic critical behavior and anomalous Hall effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>2H</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub> single crystals. Physical Review Research, 2021, 3, .	1.3	11
16	Critical phenomena of the layered ferrimagnet Mn3Si2Te6 following proton irradiation. Journal of Applied Physics, 2021, 130, .	1.1	8
17	Two-dimensional charge order stabilized in clean polytype heterostructures. Microscopy and Microanalysis, 2021, 27, 896-898.	0.2	1
18	On single-crystal total scattering data reduction and correction protocols for analysis in direct space. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 611-636.	0.0	5

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19	Photoinduced anisotropic lattice dynamic response and domain formation in thermoelectric SnSe. Npj Quantum Materials, 2021, 6, .	1.8	6
20	Absence of long-range magnetic order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>Î´</mml:mi></mml:mrow><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	3
21	Controlling the Magnetic Anisotropy of the van der Waals Ferromagnet Fe₃GeTe₂ through Hole Doping. Nano Letters, 2020, 20, 95-100.	4.5	118
22	Valence band electronic structure of the van der Waals ferromagnetic insulators: VI$$_3$$ and CrI$$_3$$. Scientific Reports, 2020, 10, 15602.	1.6	20
23	Homochiral Skyrmionic Bubbles in Exfoliated 2D Van Der Waals Cr2Ge2Te6. Microscopy and Microanalysis, 2020, 26, 2138-2140.	0.2	0
24	Publisher's Note: Critical behavior of the van der Waals bonded ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow> <mml:mn>3</mml:mn> [Phys. Rev. B 96 , 144429 (2017)]. Physical Review B, 2020, 101, .	1.1	0
25	Anisotropic magnetocaloric effect and critical behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>CrCl</mml:mi></mml:mrow><mml:mn>3</mml:mn> Physical Review B, 2020, 102, .	1.1	2
26	Anisotropic magnetocaloric effect and critical behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrSbSe</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2020, 102, .	1.1	4
27	Short-Range Order in VI₃. Inorganic Chemistry, 2020, 59, 16265-16271.	1.9	2
28	Three-dimensional Ising ferrimagnetism of Cr-Fe-Cr trimers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Fe</mml:mi><mml:msub><mml:mi mathvariant="normal">Cr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	1.1	8
29	Publisher's Note: Critical behavior of the quasi-two-dimensional weak itinerant ferromagnet trigonal chromium telluride Cr0.62Te [Phys. Rev. B 96 , 134410 (2017)]. Physical Review B, 2020, 101, .	1.1	0
30	Three-dimensional Fermi surface and small effective masses in Mo8Ga41. Applied Physics Letters, 2020, 116, 202601.	1.5	6
31	Enhanced magnetization in proton irradiated Mn3Si2Te6 van der Waals crystals. Applied Physics Letters, 2020, 116, .	1.5	13
32	Publisher's Note: Critical behavior of quasi-two-dimensional semiconducting ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn> [Phys. Rev. B 96 , 054406 (2017)]. Physical Review B, 2020, 101, .	1.1	0
33	Critical behavior and magnetocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>VI</mml:mi><mml:mn>3</mml:mn> Physical Review Research, 2020, 2, .	1.3	25
34	Topological Magnetic-Spin Textures in Two-Dimensional van der Waals Cr₂Ge₂Te₆. Nano Letters, 2019, 19, 7859-7865.	4.5	116
35	Thickness-dependent magnetic order in CrI3 single crystals. Scientific Reports, 2019, 9, 13599.	1.6	47
36	Anisotropic magnetocaloric effect in Fe3â^'xGeTe2. Scientific Reports, 2019, 9, 13233.	1.6	22

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37	Fe_{0.36(4)}Pd_{0.64(4)}Se₂: Magnetic Spin-Glass Polymorph of FeSe₂ and PdSe₂ Stable at Ambient Pressure. Inorganic Chemistry, 2019, 58, 3107-3114.	1.9	4
38	Magnetic anisotropy and entropy change in trigonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cr</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review B, 2019, 100, .	1.1	20
39	Anisotropic magnetic entropy change in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mm… width="4pt" /><mml:mo>(</mml:mo><mml:mrow><mml:mi>X</mml:mi><mml:mo>=</mml:mo><mml:mtext>Si</mml:mtext><mml:mspace) Tj ETQ… Physical Review Materials, 2019, 3, .	0.9	53
40	Anomalous Hall effect in the van der Waals bonded ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow… <mml:mn>3</mm… Physical Review B, 2018, 97, .	1.1	43
41	Three-dimensional magnetic critical behavior in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn… </mml:msub></m… Physical Review B, 2018, 97, .	1.1	76
42	Anomalous Hall effect in the trigonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn… </mml:mn></mml:… single crystal. Physical Review B, 2018, 98, .	1.5	27
43	Evidence of spin-phonon coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrSiTe</mml:mi><mml:mn>3</mml:mn></mml:msub>… Physical Review B, 2018, 98, .	1.1	42
44	Lattice dynamics and phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn… </mml:msub></mml… single crystals. Physical Review B, 2018, 98, .	1.1	48
45	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides (1T-TaS₂,) Tj ETQq1 1 0.784314 rgBT /Ov… Microanalysis, 2018, 24, 387-395.	0.2	11
46	Anisotropic magnetocaloric effect in single crystals of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn… </mml:msub></mml… Physical Review B, 2018, 97, .	1.1	49
47	Critical behavior and magnetocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn… </mml:mn></m… Physical Review B, 2018, 98, .	1.3	27
48	Critical behavior of the quasi-two-dimensional weak itinerant ferromagnet trigonal chromium telluride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mrow><mml:mn>0.62</… Physical Review B, 2017, 96, .	1.1	38
49	Critical behavior of quasi-two-dimensional semiconducting ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn… </mml:mn></mm… Physical Review B, 2017, 96, .	1.2	86
50	Critical behavior of the van der Waals bonded ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow… <mml:mn>3</mm… Physical Review B, 2017, 96, .	1.1	63
51	Superconductivity and Charge Density Wave in ZrTe3â^'xSex. Scientific Reports, 2016, 6, 26974.	1.6	47
52	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 T… 113, 11420-11424.	3.3	86
53	Distinct surface and bulk charge density waves in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</m… mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 94, .	1.1	41
54	Electrically Driven Reversible Insulatorâ€"Metal Phase Transition in 1T-TaS₂. Nano Letters, 2015, 15, 1861-1866.	4.5	131

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55	Atomistic origin of an ordered superstructure induced superconductivity in layered chalcogenides. Nature Communications, 2015, 6, 6091.	5.8	47
56	Structure and control of charge density waves in two-dimensional 1T-TaS ₂. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15054-15059.	3.3	205
57	Superconductivity induced by Se-doping in layered charge-density-wave system 1T-TaS2â^'xSex. Applied Physics Letters, 2013, 102.	1.5	118
58	Superconductivity and bandwidth-controlled Mott metal-insulator transition in 1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>-TaS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	69
59	Tunable band gap of layered semiconductor Zn3In2S6 under pressure. Journal of Materials Chemistry C, 0, , .	2.7	6
60	Suppression of Superconductivity and Nematic Order in Fe_{1â€“y}Se_{1â€“x}S_x (0 â‰¤ x â‰¤ 1; y â‰¤ 0.1) Crystals by Anion Height Disorder. Inorganic Chemistry, 0, , .	4.8	6