Shuang Jia

List of Publications by Year
in descending order

77 papers	12,646 citations	57758 44 h-index	71685 76 g-index
78 all docs	78 docs citations	78 times ranked	8801 citing authors

#	Article	IF	Citations
1	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances. Journal of the American Chemical Society, 2022, 144, 1700-1708.	13.7	88
2	Topological charge-entropy scaling in kagome Chern magnet TbMn6Sn6. Nature Communications, 2022, 13, 1197.	12.8	33
3	Low-temperature magnetic crossover in the topological kagome magnet TbMn6Sn6. Communications Physics, 2022, 5, .	5.3	12
4	Nanomechanical probing and strain tuning of the Curie temperature in suspended Cr2Ge2Te6-based heterostructures. Npj 2D Materials and Applications, 2022, 6, .	7.9	21
5	Evidence of a room-temperature quantum spin Hall edge state in a higher-order topological insulator. Nature Materials, 2022, 21, 1111-1115.	27.5	32
6	Nodeless kagome superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LaRu</mml:mi><mml:mn>3</mml:mn></mml	2.4	37
7	Multiple quantum phase transitions of different nature in the topological kagome magnet Co3Sn2â^'xInxS2. Npj Quantum Materials, 2021, 6, .	5.2	16
8	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sn</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	17
9	Band Engineering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:mrow><mml:msub><mml:mrow><mml:mi>Mn</mml:mi></mml:mrow><mml:mrow><m		

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19	Patterns and driving forces of dimensionality-dependent charge density waves in 2H-type transition metal dichalcogenides. Nature Communications, 2020, 11, 2406.	12.8	54
20	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl ₃. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
21	Enhanced anomalous Hall effect in the magnetic topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Sn</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â</mml:mo><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	33
22	Investigation of point-contact Andreev reflection on magnetic Weyl semimetal Co3Sn2S2. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	8
23	Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet. Nature Communications, 2020, 11, 559.	12.8	112
24	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. Physical Review B, 2019, 100, .	3.2	48
25	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe2Br. APL Materials, 2019, 7, 101110.	5.1	6
26	Anomalous Hall effect mechanisms in the quasi-two-dimensional van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mrow><mml:mn>0.29</mml:mn></mml:mrow></mml:msub><mml:mi>Ta</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	3.2	11
27	A New Magnetic Topological Quantum Material Candidate by Design. ACS Central Science, 2019, 5, 900-910.	11.3	63
28	Topological chiral crystals with helicoid-arc quantum states. Nature, 2019, 567, 500-505.	27.8	249
29	Quantum oscillations in the noncentrosymmetric superconductor and topological nodal-line semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2019, 99, .	3.2	21
30	Non-saturating quantum magnetization in Weyl semimetal TaAs. Nature Communications, 2019, 10, 1028.	12.8	22
31	Magnon Transport in Quasi-Two-Dimensional van der Waals Antiferromagnets. Physical Review X, 2019, 9, .	8.9	82
32	Probing Magnetism in Insulating Cr₂Ge₂Te₆ by Induced Anomalous Hall Effect in Pt. Nano Letters, 2019, 19, 2397-2403.	9.1	81
33	Negative flat band magnetism in a spinâ€“orbit-coupled correlated kagome magnet. Nature Physics, 2019, 15, 443-448.	16.7	283
34	Robust edge photocurrent response on layered type II Weyl semimetal WTe2. Nature Communications, 2019, 10, 5736.	12.8	69
35	Formation mechanism of twin domain boundary in 2D materials: The case for WTe2. Nano Research, 2019, 12, 569-573.	10.4	7
36	Surface superconductivity on Weyl semimetal induced by nonmagnetic and ferromagnetic tips. Physical Review Materials, 2019, 3, .	2.4	12

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37	Via Method for Lithography Free Contact and Preservation of 2D Materials. Nano Letters, 2018, 18, 1416-1420.	9.1	59
38	Role of Oxygen in Ionic Liquid Gating on Two-Dimensional Cr₂Ge₂Te₆: A Non-oxide Material. ACS Applied Materials & Interfaces, 2018, 10, 1383-1388.	8.0	20
39	Intrinsic [illegible] Weyl fermion semimetals in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="italic">R</mml:mi><mml:mi		

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55	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56
56	Recent observations of negative longitudinal magnetoresistance in semimetal. Chinese Physics B, 2016, 25, 117204.	1.4	13
57	Superconducting properties in single crystals of the topological nodal semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbTaSe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TaAs</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">NbAs</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.2	52
58	Large magnetoresistance in compensated semimetals<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TaAs</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">NbAs</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.2	102
59	Spin Polarization and Texture of the Fermi Arcs in the Weyl Fermion Semimetal TaAs. Physical Review Letters, 2016, 116, 096801.	7.8	102
60	Superconductivity in topologically nontrivial material Au2Pb. Npj Quantum Materials, 2016, 1, .	5.2	52
61	Signature of chiral fermion instability in the Weyl semimetal TaAs above the quantum limit. Physical Review B, 2016, 94, .	3.2	29
62	Weyl semimetals, Fermi arcs and chiral anomalies. Nature Materials, 2016, 15, 1140-1144.	27.5	255
63	Signatures of the Adlerâ€“Bellâ€“Jackiw chiral anomaly in a Weyl fermion semimetal. Nature Communications, 2016, 7, 10735.	12.8	603
64	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	14.6	112
65	Topological nodal-line fermions in spin-orbit metal PbTaSe2. Nature Communications, 2016, 7, 10556.	12.8	688
66	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802.	7.8	134
67	Observation of superconductivity induced by a point contact on 3D Dirac semimetal Cd3As2Âcrystals. Nature Materials, 2016, 15, 38-42.	27.5	209
68	Large magnetoresistance over an extended temperature regime in monophosphides of tantalum and niobium. Physical Review B, 2015, 92, .	3.2	71
69	Anisotropic Fermi Surface and Quantum Limit Transport in High Mobility Three-Dimensional Dirac Semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review X, 2015, 5, .	8.9	118
70	Dynamical Evolution of Anisotropic Response in Black Phosphorus under Ultrafast Photoexcitation. Nano Letters, 2015, 15, 4650-4656.	9.1	142
71	Experimental discovery of a topological Weyl semimetal state in TaP. Science Advances, 2015, 1, e1501092.	10.3	337
72	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. Nature Communications, 2015, 6, 7373.	12.8	1,336

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73	Discovery of a Weyl fermion semimetal and topological Fermi arcs. Science, 2015, 349, 613-617.	12.6	2,753
74	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. Nature Physics, 2015, 11, 748-754.	16.7	817
75	Topological Phase Transition and Texture Inversion in a Tunable Topological Insulator. Science, 2011, 332, 560-564.	12.6	404
76	Half-Heusler ternary compounds as new multifunctional experimental platforms for topological quantum phenomena. Nature Materials, 2010, 9, 546-549.	27.5	633
77	Observation of 1D Fermi arc states in Weyl semimetal TaAs. National Science Review, 0, , .	9.5	2