

# Shuang Jia

## List of Publications by Year in descending order

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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	Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015, 349, 613-617.	12.6	2,753
2	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. <i>Nature Communications</i> , 2015, 6, 7373.	12.8	1,336
3	Discovery of a Weyl fermion state with Fermi arcs in niobium arsenide. <i>Nature Physics</i> , 2015, 11, 748-754.	16.7	817
4	Topological nodal-line fermions in spin-orbit metal PbTaSe <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10556.	12.8	688
5	Half-Heusler ternary compounds as new multifunctional experimental platforms for topological quantum phenomena. <i>Nature Materials</i> , 2010, 9, 546-549.	27.5	633
6	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016, 7, 10735.	12.8	603
7	Topological Phase Transition and Texture Inversion in a Tunable Topological Insulator. <i>Science</i> , 2011, 332, 560-564.	12.6	404
8	Experimental discovery of a topological Weyl semimetal state in TaP. <i>Science Advances</i> , 2015, 1, e1501092.	10.3	337
9	Direct optical detection of Weyl fermion chirality in a topological semimetal. <i>Nature Physics</i> , 2017, 13, 842-847.	16.7	291
10	Negative flat band magnetism in a spin-orbit-coupled correlated kagome magnet. <i>Nature Physics</i> , 2019, 15, 443-448.	16.7	283
11	Weyl semimetals, Fermi arcs and chiral anomalies. <i>Nature Materials</i> , 2016, 15, 1140-1144.	27.5	255
12	Giant and anisotropic many-body spin-orbit tunability in a strongly correlated kagome magnet. <i>Nature</i> , 2018, 562, 91-95.	27.8	255
13	Quantum-limit Chern topological magnetism in TbMn <sub>6</sub> Sn <sub>6</sub> . <i>Nature</i> , 2020, 583, 533-536.	27.8	253
14	Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019, 567, 500-505.	27.8	249
15	Observation of superconductivity induced by a point contact on 3D Dirac semimetal Cd <sub>3</sub> As <sub>2</sub> crystals. <i>Nature Materials</i> , 2016, 15, 38-42.	27.5	209
16	Discovery of Lorentz-violating type II Weyl fermions in LaAlGe. <i>Science Advances</i> , 2017, 3, e1603266.	10.3	176
17	Dynamical Evolution of Anisotropic Response in Black Phosphorus under Ultrafast Photoexcitation. <i>Nano Letters</i> , 2015, 15, 4650-4656.	9.1	142
18	On the Quantum Spin Hall Gap of Monolayer 1Tâ€²â€²WTe <sub>2</sub> . <i>Advanced Materials</i> , 2016, 28, 4845-4851.	21.0	141

#	ARTICLE	IF	CITATIONS
19	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. Physical Review Letters, 2016, 116, 066802. Magnetic and noncentrosymmetric Weyl fermion semimetals in the $R$	7.8	134
20			

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37	A New Magnetic Topological Quantum Material Candidate by Design. ACS Central Science, 2019, 5, 900-910.	11.3	63
38	Via Method for Lithography Free Contact and Preservation of 2D Materials. Nano Letters, 2018, 18, 1416-1420.	9.1	59
39	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	7.8	56
40	Observation of Weyl fermions in a magnetic non-centrosymmetric crystal. Nature Communications, 2020, 11, 3356.	12.8	55
41	Patterns and driving forces of dimensionality-dependent charge density waves in 2H-type transition metal dichalcogenides. Nature Communications, 2020, 11, 2406.	12.8	54
42	Superconducting properties in single crystals of the topological nodal semimetal $\text{PbTaSe}_2$ . Physical Review B, 2016, 93, .	3.2	47
43	Superconductivity in topologically nontrivial material $\text{Au}_2\text{Pb}$ . Npj Quantum Materials, 2016, 1, .	5.2	52
44	Crystal growth and quantum oscillations in the topological chiral semimetal $\text{CoSi}$ . Physical Review B, 2019, 100, .	3.2	48
45	Relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal $\text{Cd}_3\text{As}_2$ . Physical Review B, 2020, 101, .	3.2	47
46	Nodeless kagome superconductivity in $\text{LaRu}_3\text{Sb}_5$ . Physical Review Materials, 2021, 5, .	2.4	17
47	Spin-orbit quantum impurity in a topological magnet. Nature Communications, 2020, 11, 4415.	12.8	34
48	Electrical transport in nanothick $\text{ZrTe}_5$ sheets: From three to two dimensions. Physical Review B, 2017, 95, .	12.8	33
49	Topological charge-entropy scaling in kagome Chern magnet $\text{TbMn}_6\text{Sn}_6$ . Nature Communications, 2022, 13, 1197.	12.8	33
50	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
51	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_6$ . Physical Review B, 2020, 101, .	3.2	29
52	Signature of chiral fermion instability in the Weyl semimetal TaAs above the quantum limit. Physical Review B, 2016, 94, .	3.2	29
53	Topological Phase Transition in Single Crystals of $(\text{Cd}_{1-x}\text{Zn}_x)_3\text{As}_2$ . Scientific Reports, 2017, 7, 3148.	3.3	28
54	Ultraquantum magnetoresistance in the Kramers-Weyl semimetal candidate $\hat{\text{Ag}}_2\text{Se}$ . Physical Review B, 2017, 96, .	3.2	27

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55	Non-saturating quantum magnetization in Weyl semimetal TaAs. Nature Communications, 2019, 10, 1028.	12.8	22
56	Quantum oscillations in the noncentrosymmetric superconductor and topological nodal-line semimetal $\text{PbTaSe}_2$ . Physical Review B, 2019, 99, .	3.2	21
57	Nanomechanical probing and strain tuning of the Curie temperature in suspended $\text{Cr}_2\text{Ge}_2\text{Te}_6$ -based heterostructures. Npj 2D Materials and Applications, 2022, 6, .	7.9	21
58	Mirror Protected Dirac Fermions on a Weyl Semimetal NbP Surface. Physical Review Letters, 2017, 119, 196403.	7.8	20
59	Role of Oxygen in Ionic Liquid Gating on Two-Dimensional $\text{Cr}_2\text{Ge}_2\text{Te}_6$ : A Non-oxide Material. ACS Applied Materials & Interfaces, 2018, 10, 1383-1388.	8.0	20
60	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm) $\text{Mn}_6\text{Sn}_6$ . Physical Review B, 2021, 103, .	3.2	17
61	Multiple quantum phase transitions of different nature in the topological kagome magnet $\text{Co}_3\text{Sn}_2\text{S}_2$ . Npj Quantum Materials, 2021, 6, .	5.2	16
62	Evidence for anisotropic spin-triplet Andreev reflection at the 2D van der Waals ferromagnet/superconductor interface. Nature Communications, 2021, 12, 6725.	12.8	15
63	Recent observations of negative longitudinal magnetoresistance in semimetal. Chinese Physics B, 2016, 25, 117204.	1.4	13
64	Highly responsive ground state of $\text{PbTaSe}_2$ : Structural phase transition and evolution of superconductivity under pressure. Physical Review B, 2017, 95, .	3.2	13
65	DyOCl: A rare-earth based two-dimensional van der Waals material with strong magnetic anisotropy. Physical Review B, 2021, 104, .	3.2	13
66	Surface superconductivity on Weyl semimetal induced by nonmagnetic and ferromagnetic tips. Physical Review Materials, 2019, 3, .	2.4	12
67	Low-temperature magnetic crossover in the topological kagome magnet $\text{TbMn}_6\text{Sn}_6$ . Communications Physics, 2022, 5, .	5.3	12
68	Anomalous Hall effect mechanisms in the quasi-two-dimensional van der Waals ferromagnet $\text{Ta}_2\text{S}_5$ . Physical Review B, 2019, 100, .	3.2	11
69	Field-Induced Metal-Insulator Transition in $\hat{\text{I}}^2\text{-EuP}_3$ . Chinese Physics Letters, 2020, 37, 107501.	3.3	9
70	Bond-breaking induced Lifshitz transition in robust Dirac semimetal $\text{VAl}_3$ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
71	Investigation of point-contact Andreev reflection on magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	8
72	Crystal growth and electrical transport properties of niobium and tantalum monopnictide and dipnictide semimetals. Frontiers of Physics, 2017, 12, 1.	5.0	7

#	ARTICLE	IF	CITATIONS
73	Formation mechanism of twin domain boundary in 2D materials: The case for WTe <sub>2</sub> . Nano Research, 2019, 12, 569-573.	10.4	7
74	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe <sub>2</sub> Br. APL Materials, 2019, 7, 101110.	5.1	6
75	Thermoelectric transport and phonon drag in Weyl semimetal monochalcogenides. Physical Review B, 2021, 104, .	3.2	6
76	Anisotropic Raman spectrum and transport properties of AuTe <sub>2</sub> Br flakes. Journal of Physics Condensed Matter, 2020, 32, 12LT01.	1.8	4
77	Observation of 1D Fermi arc states in Weyl semimetal TaAs. National Science Review, 0, , .	9.5	2