

# Shiyan Li

## List of Publications by Year in descending order

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70  
papers

3,738  
citations

159585

30  
h-index

123424

61  
g-index

73  
all docs

73  
docs citations

73  
times ranked

5176  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large magnetoresistance and unexpected low thermal conductivity in topological semimetal CrP4 single crystal. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
2	Double-dome superconductivity under pressure in the V-based kagome metals $\chi_{\text{V}}^{\text{V}}$ ( $\chi_{\text{V}}^{\text{V}}$ ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mi>mathvariant="normal">V</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	44
3	Quantum Critical Magnetic Excitations in Spin-1 and Spin-1/2 Chain Systems. Physical Review X, 2022, 12, .	8.9	10
4	Magnetotransport of dirty-limit van Hove singularity quasiparticles. Communications Physics, 2021, 4, .	5.3	73
5	Giant isotropic magneto-thermal conductivity of metallic spin liquid candidate Pr2Ir2O7 with quantum criticality. Nature Communications, 2021, 12, 307.	12.8	9
6	Specific heat and thermal conductivity of the triangular-lattice rare-earth material $\chi_{\text{K}}^{\text{K}}$ at ultralow temperature. Physical Review B, 2021, 103, .	3.2	10
7	Multiple Weyl fermions in the noncentrosymmetric semimetal LaAlSi. Physical Review B, 2021, 103, .	3.2	20
8	Local Distortions and Metal-Semiconductor-Metal Transition in Quasi-One-Dimensional Nanowire Compounds $\chi_{\text{A}}^{\text{A}}$ (A = K, Rb, Cs and Q = Se, Te). Chemistry of Materials, 2021, 33, 2611-2623.	6.7	6
9	Evidence for the random singlet phase in the honeycomb iridate $\chi_{\text{O}}^{\text{O}}$ . Physical Review B, 2021, 103, .	3.2	5
10	Magnetism-induced topological transition in EuAs3. Nature Communications, 2021, 12, 6970.	12.8	17
11	Heat Transport in Herbertsmithite: Can a Quantum Spin Liquid Survive Disorder?. Physical Review Letters, 2021, 127, 267202.	7.8	20
12	Nodeless superconducting gap in the topological superconductor candidate $\chi_{\text{M}}^{\text{M}}$ . Physical Review B, 2020, 102, .	3.2	13
13	Pressure-induced superconductivity and topological phase transitions in the topological nodal-line semimetal SrAs3. Npj Quantum Materials, 2020, 5, .	5.2	27
14	Magnetotransport in $\chi_{\text{Al}}^{\text{Al}}$ . Physical Review B, 2019, 100, .	5.2	11
15	Realization of an excellent two-dimensional Heisenberg ferromagnetic system: the synthesis, structure, and thermodynamic properties of piperazinedium tetrabromocuprate. Journal of Materials Chemistry C, 2019, 7, 8813-8819.	5.5	1
16	Structure and Transport Properties in Itinerant Antiferromagnet RE2(Ni1-xCux)5As3O2 (RE = Ce, Sm). Inorganic Chemistry, 2019, 58, 2770-2776.	4.0	2
17	Anomalous Dome-like Superconductivity in RE2(Cu1-Ni)5As3O2 (RE= La, Pr, Nd). IScience, 2019, 14, 171-179.	4.1	6
18	Type-I superconductivity in $\chi_{\text{Al}}^{\text{Al}}$ . Physical Review B, 2019, 99, .	5.2	11

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19	Ferromagnetic van der Waals Crystal $\text{VI}_3$ . Journal of the American Chemical Society, 2019, 141, 5326-5333.	13.7	153
20	Double-peak specific heat and spin freezing in the spin-2 triangular lattice antiferromagnet $\text{FeAl}_2$ . Physical Review B, 2019, 99, .	7.2	6
21	Conductivity in the Quantum Spin Liquid Candidate $\text{EtMe}_3\text{SbCl}$ . Physical Review B, 2019, 99, .	7.8	54
22	Multigap nodeless superconductivity in $\text{CsCa}_2\text{F}_2$ probed by heat transport. Physical Review B, 2019, 99, .	3.2	19
23	Spin-Glass Ground State in a Triangular-Lattice Compound $\text{YbZnGaO}_4$ . Physical Review Letters, 2018, 120, 087201.	7.8	112
24	Ultralow-Temperature Thermal Conductivity of the Kitaev Honeycomb Magnet $\text{RuCl}_2$ across the Field-Induced Phase Transition. Physical Review Letters, 2018, 120, 067202.	7.8	69
25	Ultralow-temperature heat transport in the quantum spin liquid candidate $\text{Ca}_{10}\text{O}_{28}$ with a bilayer kagome lattice. Physical Review B, 2018, 97, .	3.2	11
26	$\text{Cs}_{0.9}\text{Ni}_{3.1}\text{Se}_3$ : A Ni-Based Quasi-One-Dimensional Conductor with Spin-Glass Behavior. Inorganic Chemistry, 2018, 57, 3798-3804.	4.0	7
27	Transitions from a Kondo-like diamagnetic insulator into a modulated ferromagnetic metal in $\text{FeGa}_{3\alpha}\text{Ge}_\gamma$ . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3273-3278.	7.1	10
28	$\text{V}_2\text{Te}_2\text{O}$ : A Two-Dimensional van der Waals Correlated Metal. Inorganic Chemistry, 2018, 57, 14617-14623.	4.0	8
29	Discrete Superconducting Phases in FeSe-Derived Superconductors. Physical Review Letters, 2018, 121, 207003.	7.8	49
30	Nontrivial superconductivity in topological $\text{MoTe}_2$ crystals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9503-9508.	7.1	65
31	Nodal superconductivity coexists with low-moment static magnetism in single-crystalline tetragonal FeS: A muon spin relaxation and rotation study. Physical Review B, 2018, 97, .	3.2	4
32	Mermin-Wagner physics, phase diagram, and candidate quantum spin-liquid phase in the spin-2 triangular-lattice antiferromagnet $\text{FeAl}_2$ . Physical Review B, 2018, 97, .	2.4	28
33	Physical properties of noncentrosymmetric tungsten and molybdenum aluminides. Physical Review Materials, 2018, 2, .	2.4	3
34	Quasi-two-dimensional superconductivity from dimerization of atomically ordered $\text{AuTe}_2\text{Se}_4/3$ cubes. Nature Communications, 2017, 8, 871.	12.8	15
35	Prominent Role of Spin-Orbit Coupling in FeSe Revealed by Inelastic Neutron Scattering. Physical Review X, 2017, 7, .	8.9	40
36	Heat transport study of the spin liquid candidate $\text{RuCl}_2$ . Physical Review B, 2017, 96, .	3.2	11

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37	Electronic structure of FeS. Physical Review B, 2017, 95, .	3.2	20
38	Gapped Spin-1/2 Spinon Excitations in a New Kagome Quantum Spin Liquid Compound $\text{Cu}_3\text{Zn}(\text{OH})_6\text{FBr}$ . Chinese Physics Letters, 2017, 34, 077502.	3.3	98
39	Absence of Magnetic Thermal Conductivity in the Quantum Spin-Liquid Candidate $\text{YbMgGaO}$ . Physical Review Letters, 2016, 117, 267202.	7.8	103
40	Nodal superconductivity in FeS: Evidence from quasiparticle heat transport. Physical Review B, 2016, 94, .	3.2	20
41	Nodeless superconducting gaps in noncentrosymmetric superconductor $\text{PbTaSe}$ and topological bulk nodal lines. Physical Review B, 2016, 93, .	3.2	11
42	Bulk Fermi Surface of Charge-Neutral Excitations in $\text{SmB}_6$ or Not: A Heat-Transport Study. Physical Review Letters, 2016, 116, 246403.	7.8	34
43	Universal heat conduction in $\text{Ce}_3\text{Yb}_x\text{CoIn}_5$ : Evidence for robust nodal-wave superconducting gap. Physical Review B, 2016, 93, .	3.2	7
44	Pressure-induced superconductivity in the three-dimensional topological Dirac semimetal $\text{Cd}_3\text{As}_2$ . Npj Quantum Materials, 2016, 1, .	5.2	136
45	Electric-Field Control of Magnetism in Multiferroic Heterostructures with Different Ferroelectric Phases. ACS Applied Materials & Interfaces, 2016, 8, 3784-3791.	8.0	31
46	Nodeless superconducting gaps in $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)((\text{Fe}_{1-x}\text{Pt}_x)_2\text{As}_2)_5$ probed by quasiparticle heat transport. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	1
47	Nodal superconductivity and superconducting dome in the layered superconductor $\text{Ta}_2\text{Te}_5$ . Physical Review B, 2015, 92, .	3.2	22
48	Gapless quantum spin liquid ground state in the two-dimensional spin-1/2 triangular antiferromagnet $\text{YbMgGaO}_4$ . Scientific Reports, 2015, 5, 16419.	3.3	213
49	Heat transport in $\text{RbFe}_2\text{As}_2$ crystals: Evidence for nodal superconducting gap. Physical Review B, 2015, 91, .	3.2	4
50	Gate-tunable phase transitions in thin flakes of $1\text{T-TaS}_2$ . Nature Nanotechnology, 2015, 10, 270-276.	31.5	584
51	Experimental evidence and control of the bulk-mediated intersurface coupling in topological insulator $\text{Bi}_2\text{Te}_3$ . Physical Review B, 2015, 91, .	3.2	39
52	Landau level splitting in $\text{Cd}_3\text{As}_2$ under high magnetic fields. Nature Communications, 2015, 6, 7779.	12.8	126
53	Drastic Pressure Effect on the Extremely Large Magnetoresistance in $\text{WTe}_2$ . Quantum Oscillation Study. Physical Review Letters, 2015, 115, 057202.	7.8	143
54	Anomalous impurity effects in the iron-based superconductor $\text{KFeAs}$ . Physical Review B, 2014, 89, .	3.2	18

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55	Quantum oscillations in Rashba semiconductor BiTeCl. Physical Review B, 2014, 90, .	3.2	7
56	Multigap nodeless superconductivity in nickel chalcogenide $TlNi_2Se_2$	3.2	14
57	Quantum Transport Evidence for the Three-Dimensional Dirac Semimetal Phase in Nodal-gap Iron-based Superconductor $CsFe_3P_5$	7.8	391
58	Calorimetric study of single-crystal $CsFe_3P_5$ probed by quasiparticle heat transport. Physical Review B, 2011, 83, .	3.2	29
59	Robust Nodal Superconductivity Induced by Isovalent Doping in $Ba_1-xFe_xAs_2$	3.2	36
60	Field-induced Quantum Critical Point and Nodal Superconductivity in the Heavy-Fermion Superconductor $PdIn_2Ce_2$	3.9	21
61	Physical Review X, 2012, 2, .		
62	Dong and Li Reply:. Physical Review Letters, 2010, 104, .	7.8	12
63	Thermal conductivity of overdoped $BaFe_{1.73}Co_{0.27}As_2$ single crystal: Evidence for nodeless multiple superconducting gaps and interband interactions. Physical Review B, 2010, 81, .	3.2	21
64	Quantum Criticality and Nodal Superconductivity in the FeAs-Based Superconductor $KFe_2As_2$	7.8	213
65	Multigap nodeless superconductivity in $FeSe$ Evidence from quasiparticle heat transport. Physical Review B, 2009, 80, .	3.2	72
66	Nodeless superconducting gap in electron-doped $BaFe_{1.9}Ni_{0.1}As_2$ probed by quasiparticle heat transport. New Journal of Physics, 2009, 11, 093018.	2.9	30
67	Low-temperature phonon thermal conductivity of single-crystalline $FeAs$	3.2	84
68	Effects of sample size and surface roughness. Physical Review B, 2008, 77, .	3.2	65
69	Ballistic Magnon Transport and Phonon Scattering in the Antiferromagnet $Nd_2CuO_4$ . Physical Review Letters, 2005, 95, 156603.	7.8	38
70	Low-temperature transport properties of $Nd_{2-x}Ce_xCuO_4$ : Metal-insulator crossover in the overdoped regime. Physical Review B, 2002, 65, .	3.2	13