Shiyan Li

List of Publications by Year
in descending order

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	Gate-tunable phase transitions in thin flakes of 1T-TaS2. Nature Nanotechnology, 2015, 10, 270-276.	31.5	584
2	Quantum Transport Evidence for the Three-Dimensional Dirac Semimetal Phase in<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:mr Physical Review Letters, 2014, 113, 246402.	7.8	391
3	Quantum Criticality and Nodal Superconductivity in the FeAs-Based Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>KFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:m Physical Review Letters, 2010, 104, 087005.	7.8	213
4	Gapless quantum spin liquid ground state in the two-dimensional spin-1/2 triangular antiferromagnet YbMgGaO4. Scientific Reports, 2015, 5, 16419.	3.3	213
5	Ferromagnetic van der Waals Crystal VI₃. Journal of the American Chemical Society, 2019, 141, 5326-5333.	13.7	153
6	Drastic Pressure Effect on the Extremely Large Magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:r Quantum Oscillation Study. Physical Review Letters, 2015, 115, 057202.	7.8	143
7	Pressure-induced superconductivity in the three-dimensional topological Dirac semimetal Cd3As2. Npj Quantum Materials, 2016, 1, .	5.2	136
8	Landau level splitting in Cd3As2 under high magnetic fields. Nature Communications, 2015, 6, 7779.	12.8	126
9	Spin-Glass Ground State in a Triangular-Lattice Compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbZnGaO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mr Physical Review Letters, 2018, 120, 087201.	7.8	112
10	Absence of Magnetic Thermal Conductivity in the Quantum Spin-Liquid Candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>YbMgGaO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:m Physical Review Letters, 2016, 117, 267202.	7.8	103
11	Gapped Spin-1/2 Spinon Excitations in a New Kagome Quantum Spin Liquid Compound Cu₃Zn(OH)₆FBr. Chinese Physics Letters, 2017, 34, 077502.	3.3	98
12	Specific heat of the iron-based high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>superco <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>SmO</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mm mathvariant="normal">F</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>FeAs</mml:mi. Physical Review B, 2008, 77, .	3.2	84
13	Magnetotransport of dirty-limit van Hove singularity quasiparticles. Communications Physics, 2021, 4, .	5.3	73
14	Multigap nodeless superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeSe</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msu Evidence from quasiparticle heat transport. Physical Review B, 2009, 80, .	3.2	72
15	Ultralow-Temperature Thermal Conductivity of the Kitaev Honeycomb Magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:mrow><mml:msub><mml:mrow><mml:mi> Low-Temperature Phonon Thermal Conductivity of Single-Crystalline<mml:math.	7.8	69
16	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Nd</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>: Effects of sample size and surface roughness. Physical Review B, 2008, 77, .	3.2	65
17	Nontrivial superconductivity in topological MoTe2â^’xSx crystals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9503-9508.	7.1	65
18	Absence of Magnetic Thermal Conductivity in the Quantum Spin Liquid Candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>EtMe</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:r stretchy="false">[</mml:mo><mml:mi>Pd</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mtext>dmit</mml:mtext><mml:msub><mml:mrow><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 P	7.8	54

#	Article	IF	Citations
19	Discrete Superconducting Phases in FeSe-Derived Superconductors. Physical Review Letters, 2018, 121, 207003.	7.8	49
20	Double-dome superconductivity under pressure in the V-based kagome metals <mml:math 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:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:m	3.2	44
21	Heat transport study of the spin liquid candidate <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>-</mml:mtext></ Physical Review B, 2017, 96, .	3.2	41
22	Nodeless superconducting gaps in noncentrosymmetric superconductor<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></ topological bulk nodal lines. Physical Review B, 2016, 93, .	3.2	40
23	Prominent Role of Spin-Orbit Coupling in FeSe Revealed by Inelastic Neutron Scattering. Physical Review X, 2017, 7, .	8.9	40
24	Experimental evidence and control of the bulk-mediated intersurface coupling in topological insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:m Physical Review B, 2015, 91, .	3.2	39
25	Ballistic Magnon Transport and Phonon Scattering in the AntiferromagnetNd2CuO4. Physical Review Letters, 2005, 95, 156603.	7.8	38
26	Robust Nodal Superconductivity Induced by Isovalent Doping in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ba</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>	8.9	36
27	Calorimetric study of single-crystal CsFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	36
28	Heat transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>RbFe</mml:mi><mml:mn>2</mml:mn></mml:m crystals: Evidence for nodal superconducting gap. Physical Review B, 2015, 91, .	3.2	34
29	Bulk Fermi Surface of Charge-Neutral Excitations inSmB6or Not: A Heat-Transport Study. Physical Review Letters, 2016, 116, 246403.	7.8	34
30	Electric-Field Control of Magnetism in Co₄₀Fe₄₀B₂₀/(1-x)Pb(Mg_{1/3}Nb_{2/3})O₃-xPbTiO<sub>3</ Multiferroic Heterostructures with Different Ferroelectric Phases. ACS Applied Materials & Interfaces, 2016, 8, 3784-3791.	8.0	31
31	Nodeless superconducting gap in electron-doped BaFe_{1.9}Ni_{0.1}As₂probed by quasiparticle heat transport. New Journal of Physics, 2009, 11, 093018.	2.9	30
32	Nodal gap in iron-based superconductor CsFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>probed by quasiparticle heat transport. Physical Review B, 2013, 87, .	3.2	29
33	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>H</mml:mi><mml:mo>,</mml:m phase diagram, and candidate quantum spin-liquid phase in the spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m triangular-lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:ms. Physical Review Materials,	2.4	28
34	Pressure-induced superconductivity and topological phase transitions in the topological nodal-line semimetal SrAs3. Npj Quantum Materials, 2020, 5, .	5.2	27
35	Nodal superconductivity and superconducting dome in the layered superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>2</mml:mn></mml:m Physical Review B, 2015, 92, .	3.2	22
36	Thermal conductivity of overdopedBaFe1.73Co0.27As2single crystal: Evidence for nodeless multiple superconducting gaps and interband interactions. Physical Review B, 2010, 81, .	3.2	21

#	Article	IF	Citations
37	Field-Induced Quantum Critical Point and Nodal Superconductivity in the Heavy-Fermion Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ce</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Pdln</mml:mi><mml: Physical Review X, 2011, 1, .	8.9	21
38	Nodal superconductivity in FeS: Evidence from quasiparticle heat transport. Physical Review B, 2016, 94, .	3.2	20
39	Electronic structure of FeS. Physical Review B, 2017, 95, .	3.2	20
40	Multiple Weyl fermions in the noncentrosymmetric semimetal LaAlSi. Physical Review B, 2021, 103, .	3.2	20
41	Heat Transport in Herbertsmithite: Can a Quantum Spin Liquid Survive Disorder?. Physical Review Letters, 2021, 127, 267202.	7.8	20
42	Type-I superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Al</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mo></mml:mo><mml:n Physical Review B, 2019, 99, .	3.2	19
43	Multigap nodeless superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CsCa</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">F</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> probed by heat transport. Physical Review B, 2019, 99, .	3.2	19
44	Anomalous impurity effects in the iron-based superconductor KFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	18
45	Magnetism-induced topological transition in EuAs3. Nature Communications, 2021, 12, 6970.	12.8	17
46	Quasi-two-dimensional superconductivity from dimerization of atomically ordered AuTe2Se4/3 cubes. Nature Communications, 2017, 8, 871.	12.8	15
47	Multigap nodeless superconductivity in nickel chalcogenide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">TlNi</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.2	14
48	Low-temperature transport properties ofNd2â”xCexCuO4+Î´:Metal-insulator crossover in the overdoped regime. Physical Review B, 2002, 65, .	3.2	13
49	Nodeless superconducting gap in the topological superconductor candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>2</mml:mn><mml:mi>M</mml:mi><mml:mtext>3.6“</mml:mtext><mml:mtext><m /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, .	3.2	13
50	Dong and Li Reply:. Physical Review Letters, 2010, 104, .	7.8	12
51	Ultralow-temperature heat transport in the quantum spin liquid candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>10</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>28</mml:mn></mml:msub></mml:mrow></mml:math> with a bilayer kagome lattice. Physical Review B, 2018, 97, .	3.2	11
52	Transitions from a Kondo-like diamagnetic insulator into a modulated ferromagnetic metal in FeGa _{3â”y} Ge _y. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3273-3278.	7.1	10
53	Specific heat and thermal conductivity of the triangular-lattice rare-earth material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>KBaYb</mml:mi><mml:msub><mml:mrow><mml:mo at ultralow temperature. Physical Review B, 2021, 103, .	3.2	10
54	Quantum Critical Magnetic Excitations in Spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math> and Spin-1 Chain Systems. Physical Review X, 2022, 12, .	8.9	10

#	Article	IF	Citations
55	Giant isotropic magneto-thermal conductivity of metallic spin liquid candidate Pr2Ir2O7 with quantum criticality. Nature Communications, 2021, 12, 307.	12.8	9
56	V₂Te₂O: A Two-Dimensional van der Waals Correlated Metal. Inorganic Chemistry, 2018, 57, 14617-14623.	4.0	8
57	Quantum oscillations in Rashba semiconductor BiTeCl. Physical Review B, 2014, 90, .	3.2	7
58	Universal heat conduction inCe1â^'xYbxCoIn5: Evidence for robust nodald-wave superconducting gap. Physical Review B, 2016, 93, .	3.2	7
59	Cs_{0.9}Ni_{3.1}Se₃: A Ni-Based Quasi-One-Dimensional Conductor with Spin-Glass Behavior. Inorganic Chemistry, 2018, 57, 3798-3804.	4.0	7
60	Anomalous Dome-like Superconductivity in RE2(Cu1-Ni)5As3O2 (REÂ= La, Pr, Nd). IScience, 2019, 14, 171-179.	4.1	6
61	Double-peak specific heat and spin freezing in the spin-2 triangular lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeAl</mml:mi><mml:mn>2</mml:mn></m Physical Review B, 2019, 99, .	3.2	6
62	Local Distortions and Metalâ€“Semiconductorâ€“Metal Transition in Quasi-One-Dimensional Nanowire Compounds AV₃Q₃O_{Î´} (A = K, Rb, Cs and Q = Se, Te). Chemistry of Materials, 2021, 33, 2611-2623.	6.7	6
63	Evidence for the random singlet phase in the honeycomb iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>SrIr</mml:mi><mml:mn>2</mml:mn></m mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	5
64	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
65	Magnetotransport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Al</mml:mi><mml:mn>2</mml:mn></m Physical Review B, 2019, 100, .	3.2	4
66	Physical properties of noncentrosymmetric tungsten and molybdenum aluminides. Physical Review Materials, 2018, 2, .	2.4	3
67	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
68	Structure and Transport Properties in Itinerant Antiferromagnet RE2(Ni1â€“xCux)5As3O2 (RE = Ce, Sm). Inorganic Chemistry, 2019, 58, 2770-2776.	4.0	2
69	Nodeless superconducting gaps in Ca10(Pt4-Î´As8)((Fe1-x Pt x)2As2)5 probed by quasiparticle heat transport. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	1
70	Realization of an excellent two-dimensional Heisenberg ferromagnetic system: the synthesis, structure, and thermodynamic properties of piperazinediium tetrabromocuprate. Journal of Materials Chemistry C, 2019, 7, 8813-8819.	5.5	1