Jin Hu

List of Publications by Year
in descending order

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120 papers	12,330 citations	53794 45 h-index	24258 110 g-index
120 all docs	120 docs citations	120 times ranked	11992 citing authors

#	Article	IF	Citations
1	Experimental Realization of a Three-Dimensional Topological Insulator, Bi ₂ Te ₃. Science, 2009, 325, 178-181.	12.6	3,095
2	Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662.	12.6	1,051
3	In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. Science, 2010, 329, 824-826.	12.6	690
4	Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe _{1- x} Co <sub>) Tj ETQq0 0 0 rgBT /Overlock 10 the National Academy of Sciences of the United States of America, 2011, 108, 6878-6883.	7.1	464
5	Divergent Nematic Susceptibility in an Iron Arsenide Superconductor. Science, 2012, 337, 710-712.	12.6	452
6	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. Physical Review Letters, 2016, 117, 016602.	7.8	378
7	Electronic structure of the iron-based superconductor LaOFeP. Nature, 2008, 455, 81-84.	27.8	279
8	Black Phosphorus Terahertz Photodetectors. Advanced Materials, 2015, 27, 5567-5572.	21.0	269
9	From (Ï€,0) magnetic order to superconductivity with (Ï€,Ï€) magnetic resonance in Fe1.02Te1â^'xSex. Nature Materials, 2010, 9, 718-720.	27.5	248
10	Charge-carrier localization induced by excess Fe in the superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2009, 80, .	3.2	220
11	Spin Gap and Resonance at the Nesting Wave Vector in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>FeSe</mml:mi><mml:mn>0.4</mml:mn></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mi> Physical Review Letters, 2009, 103, 067008.	7.8	214
12	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. 2D Materials, 2015, 2, 011001.	4.4	209
13	NÃ©el-type skyrmion in WTe2/Fe3GeTe2 van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	12.8	208
14	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MnB</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physi	3.6	204
15	Evidence for a Nodal-Line Superconducting State in LaFePO. Physical Review Letters, 2009, 102, 147001.	7.8	197
16	Single Dirac Cone Topological Surface State and Unusual Thermoelectric Property of Compounds from a New Topological Insulator Family. Physical Review Letters, 2010, 105, 266401.	7.8	195
17	Observation of Temperature-Induced Crossover to an Orbital-Selective Mott Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">A</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn>		

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19	Transport of Topological Semimetals. Annual Review of Materials Research, 2019, 49, 207-252.	9.3	155
20	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. Nature Communications, 2015, 6, 7777.	12.8	148
21	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> Quantum Oscillation Study. Physical Review Letters, 2015, 115, 057202.	7.8	143
22	High Performance Field-Effect Transistor Based on Multilayer Tungsten Disulfide. ACS Nano, 2014, 8, 10396-10402.	14.6	142
23	A magnetic topological semimetal Sr1â^'yMn1â^'zSb2 (y, z < 0.1). Nature Materials, 2017, 16, 905-910.	27.5	135
24	Origin of the turn-on temperature behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mr Physical Review B, 2015, 92, .	3.2	132
25	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. Nano Letters, 2018, 18, 4214-4219.	9.1	131
26	Nearly massless Dirac fermions and strong Zeeman splitting in the nodal-line semimetal ZrSiS probed by de Haasâ€"van Alphen quantum oscillations. Physical Review B, 2017, 96, .	3.2	125
27	Ï€ Berry phase and Zeeman splitting of Weyl semimetal TaP. Scientific Reports, 2016, 6, 18674.	3.3	117
28	Efficient Terahertz detection in black-phosphorus nano-transistors with selective and controllable plasma-wave, bolometric and thermoelectric response. Scientific Reports, 2016, 6, 20474.	3.3	117
29	Electronic structure of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m of iron-pnictide superconductors. Physical Review B, 2009, 80, .	3.2	116
30	Isolation and Characterization of Few-Layer Manganese Thiophosphite. ACS Nano, 2017, 11, 11330-11336.	14.6	98
31	Environmental Instability and Degradation of Singleâ€•and Fewâ€Layer WTe₂ Nanosheets in Ambient Conditions. Small, 2016, 12, 5802-5808.	10.0	96
32	Electronic correlations in nodal-line semimetals. Nature Physics, 2020, 16, 636-641.	16.7	86
33	Heterostructured hBNâ€BPâ€hBN Nanodetectors at Terahertz Frequencies. Advanced Materials, 2016, 28, 7390-7396.	21.0	85
34	Incommensurate itinerant antiferromagnetic excitations and spin resonance in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>FeTe</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.6</mm Physical Review B, 2010, 81, .	3.2	79
35	Metal insulator transition with ferrimagnetic order in epitaxial thin films of spinel NiCo2O4. Applied Physics Letters, 2012, 100, .	3.3	79
36	Nearly massless Dirac fermions hosted by Sb square net in BaMnSb2. Scientific Reports, 2016, 6, 30525.	3.3	75

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37	ARPES studies of the electronic structure of LaOFe(P,As). Physica C: Superconductivity and Its Applications, 2009, 469, 452-458.	1.2	67
38	London penetration depth and superfluid density of single-crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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55	Highly sensitive spin-flop transition in antiferromagnetic van der Waals material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi		

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73	Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. Nano Research, 2016, 9, 2598-2605.	10.4	15
74	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. Nano Letters, 2021, 21, 4887-4893.	9.1	15
75	Infrared spectroscopy study of the nodal-line semimetal candidate ZrSiTe under pressure: Hints for pressure-induced phase transitions. Physical Review B, 2019, 99, .	3.2	14
76	Ferromagnetism in CuFeSb: Evidence of competing magnetic interactions in iron-based superconductors. Physical Review B, 2012, 85, .	3.2	13
77	Evidence of Electron-Hole Imbalance in WTe ₂ from High-Resolution Angle-Resolved Photoemission Spectroscopy. Chinese Physics Letters, 2017, 34, 097305.	3.3	12
78	Inherited weak topological insulator signatures in the topological hourglass semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mn>3</mml:mn></mml: <mml:math		

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91	Observation of Plasmon Energy Gain for Emitted Secondary Electron in Vacuo. Journal of Physical Chemistry Letters, 2019, 10, 5770-5775.	4.6	8
92	Anisotropic Berry phase in the Dirac nodal-line semimetal ZrSiS: The effect of spin-orbit coupling. Physical Review B, 2021, 103, .	3.2	8
93	Weak ferromagnetism of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Cu</mml:mi><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub><mml:mtext>As</mml:mtext></mml:math> and its evolution with Co doping. Physical Review B, 2015, 91, .	3.2	7
94	Resistivity of Weyl semimetals NbP and TaP under pressure. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700182.	2.4	7
95	Electronic structure of Fe_{1.08}Te bulk crystals and epitaxial FeTe thin films on Bi₂Te₃. Journal of Physics Condensed Matter, 2018, 30, 065502.	1.8	7
96	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	3.2	7
97	Modified magnetism within the coherence volume of superconducting<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>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math> . Physical Review B, 2014, 90, .	3.2	6
98	Nanoscale Inhomogeneous Superconductivity in Fe(Te1â€“xSex) Probed by Nanostructure Transport. ACS Nano, 2016, 10, 429-435.	14.6	6
99	Emergence of intrinsic superconductivity below 1.178â€‰K in the topologically non-trivial semimetal state of CaSn₃. Journal of Physics Condensed Matter, 2019, 31, 245703.	1.8	6
100	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodalâ€Line Semimetals. Advanced Functional Materials, 2019, 29, 1900438.	14.9	6
101	A Triplet Resonance in Superconducting Fe 1.03 Se 0.4 Te 0.6. Chinese Physics Letters, 2018, 35, 127401.	3.3	5
102	Growth and Strain Engineering of Trigonal Te for Topological Quantum Phases in Non-Symmorphic Chiral Crystals. Crystals, 2019, 9, 486.	2.2	5
103	Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. Journal of Visualized Experiments, 2019, , .	0.3	5
104	Quasi-layered Crystal Structure Coupled with Point Defects Leading to Ultralow Lattice Thermal Conductivity in n-Type Cu_{2.83}Bi₁₀Se₁₆. ACS Applied Energy Materials, 2021, 4, 11325-11335.	5.1	5
105	STEM and EELS Investigation on Black Phosphorus at Atomic Resolution. Microscopy and Microanalysis, 2015, 21, 427-428.	0.4	4
106	Multiple topologically nontrivial bands in noncentrosymmetric YSn2. Physical Review B, 2018, 98, .	3.2	4
107	De Haasâ€“van Alphen study on three-dimensional topological semimetal pyrite PtBi2. Science Bulletin, 2019, 64, 1496-1501.	9.0	4
108	Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. Physical Review B, 2020, 101, .	3.2	4

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109	Low-energy electron inelastic mean free path and elastic mean free path of graphene. Applied Physics Letters, 2021, 118, .	3.3	4
110	Evolution of electronic and magnetic properties in the topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msub><mml:mi>Sb</mml:mi><mml:r Physical Review B, 2022, 105, .	3.2	4
111	Field-Dependent Magnetic Domain Behavior in van der Waals Fe3GeTe2. Jom, 2022, 74, 2310-2318.	1.9	4
112	Normal and inverse bulk spin valve effects in single-crystal ruthenates. Applied Physics Letters, 2016, 108, 162402.	3.3	3
113	Quasi-two-dimensional relativistic fermions probed by de Haasâ€"van Alphen quantum oscillations in LuSn2. Physical Review B, 2021, 103, .	3.2	2
114	Thickness evolution of transport properties in exfoliated Fe1+y Te nanoflakes. Journal of Physics Condensed Matter, 2018, 30, 295303.	1.8	2
115	Visualizing discrete Fermi surfaces and possible nodal-line to Weyl state evolution in ZrSiTe. Npj Quantum Materials, 2022, 7, .	5.2	2
116	Extremely large anisotropic transport caused by electronic phase separation in Ti-doped Ca3Ru2O7. Journal Physics D: Applied Physics, 2016, 49, 245004.	2.8	1
117	Black phosphorus and hybrid van der wall heterostructured terahertz photodetectors. , 2016, , .		1
118	Electronic Properties of Group-IV SnGe alloy topological quantum materials. , 2021, , .		1
119	Coupled electronic and magnetic relaxation in Fe1+y Te: direct evidence for the interaction between itinerant carriers and local moments. Journal of Physics Condensed Matter, 2022, 34, 025601.	1.8	0
120	Pressure tuning of the Berry phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaMnSb</mml:mi><mml:mn>2</mml:mn></mml:msub>< Physical Review B, 2022, 105, .	3.2	0