Jin Hu

List of Publications by Year in Descending Order

110 papers	9,828 citations	41 h-index	99 g-index
120 ext. papers	11,316 ext. citations	8 avg, IF	5.69 L-index

#	Paper	IF	Citations
110	Quasi-layered Crystal Structure Coupled with Point Defects Leading to Ultralow Lattice Thermal Conductivity in n-Type Cu2.83Bi10Se16. *ACS Applied Energy Materials*, **2021**, 4, 11325-11335	6.1	0
109	Anisotropic Berry phase in the Dirac nodal-line semimetal ZrSiS: The effect of spin-orbit coupling. *Physical Review B*, **2021**, 103,	3.3	2
108	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. *Nano Letters*, **2021**, 21, 4887-4893	11.5	5
107	Inherited weak topological insulator signatures in the topological hourglass semimetal Nb3XTe6 (X=Si, Ge). *Physical Review B*, **2021**, 103,	3.3	4
106	Highly sensitive spin-flop transition in antiferromagnetic van der Waals material MPS3 (M=Ni and Mn). *Physical Review Materials*, **2021**, 5,	3.2	5
105	Centrosymmetric or Noncentrosymmetric? Transition Metals Talking in KTGeS(T = Co, Fe). *Inorganic Chemistry*, **2021**, 60, 10603-10613	5.1	7
104	Low-energy electron inelastic mean free path and elastic mean free path of graphene. *Applied Physics Letters*, **2021**, 118, 053104	3.4	0
103	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb. *Nature Communications*, **2021**, 12, 4062	17.4	4
102	Evidence for a Magnetic-Field-Induced Ideal Type-II Weyl State in Antiferromagnetic Topological Insulator Mn(Bi1⊠Sbx)2Te4. *Physical Review X*, **2021**, 11,	9.1	4
101	Magnetic Topological Semimetal Phase with Electronic Correlation Enhancement in SmSbTe. *Advanced Quantum Technologies*, **2021**, 4, 2100063	4.3	0
100	Gate-Defined Accumulation-Mode Quantum Dots in Monolayer and Bilayer WSe2. *Physical Review Applied*, **2020**, 13,	4.3	8
99	Electronic correlations in nodal-line semimetals. *Nature Physics*, **2020**, 16, 636-641	16.2	31
98	Electronic and magnetic properties of the topological semimetal candidate NdSbTe. *Physical Review B*, **2020**, 101,	3.3	6
97	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. *Physical Review B*, **2020**, 101,	3.3	8
96	Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. *Physical Review B*, **2020**, 101,	3.3	1
95	Measurement of the Low-Energy Electron Inelastic Mean Free Path in Monolayer Graphene. *Physical Review Applied*, **2020**, 13,	4.3	8
94	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. *Nature Materials*, **2020**, 19, 27-33	27	9

93	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. *Nano Letters*, **2020**, 20, 8446-8452	11.5	16
92	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. *Nature Communications*, **2020**, 11, 3860	17.4	81
91	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI. *Nature Communications*, **2020**, 11, 3879	17.4	31
90	Growth and Strain Engineering of Trigonal Te for Topological Quantum Phases in Non-Symmorphic Chiral Crystals. *Crystals*, **2019**, 9, 486	2.3	3
89	Observation of Plasmon Energy Gain for Emitted Secondary Electron in Vacuo. *Journal of Physical Chemistry Letters*, **2019**, 10, 5770-5775	6.4	6
88	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. *Advanced Functional Materials*, **2019**, 29, 1900438	15.6	5
87	Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	7
86	Transport of Topological Semimetals. *Annual Review of Materials Research*, **2019**, 49, 207-252	12.8	76
85	Chemical pressure effect on the optical conductivity of the nodal-line semimetals ZrSiY(Y=S,Se,Te) and ZrGeY(Y=S,Te). *Physical Review B*, **2019**, 99,	3.3	16
84	De Haas□van Alphen study on three-dimensional topological semimetal pyrite PtBi2. *Science Bulletin*, **2019**, 64, 1496-1501	10.6	2
83	Plaquette instability competing with bicollinear ground state in detwinned FeTe. *Physical Review B*, **2019**, 100,	3.3	5
82	Emergence of intrinsic superconductivity below 1.178 K in the topologically non-trivial semimetal state of CaSn. *Journal of Physics Condensed Matter*, **2019**, 31, 245703	1.8	4
81	Infrared spectroscopy study of the nodal-line semimetal candidate ZrSiTe under pressure: Hints for pressure-induced phase transitions. *Physical Review B*, **2019**, 99,	3.3	10
80	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator MnBi2Te4. *Physical Review Research*, **2019**, 1,	3.9	114
79	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. *Physical Review B*, **2019**, 100,	3.3	12
78	Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. *Journal of Visualized Experiments*, **2019**,	1.6	3
77	Electronic structure of FeTe bulk crystals and epitaxial FeTe thin films on BiTe. *Journal of Physics Condensed Matter*, **2018**, 30, 065502	1.8	6
76	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. *Physical Review B*, **2018**, 97,	3.3	12

75	Magnetoresistance and Shubnikov–de Haas oscillations in layered Nb3SiTe6 thin flakes. *Physical Review B*, **2018**, 97,	3.3	10
74	Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. *Npj Quantum Materials*, **2018**, 3,	5	8
73	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. *Nano Letters*, **2018**, 18, 4214-4219	11.5	79
72	Thickness evolution of transport properties in exfoliated Fe Te nanoflakes. *Journal of Physics Condensed Matter*, **2018**, 30, 295303	1.8	2
71	Anisotropic ultraviolet-plasmon dispersion in black phosphorus. *Nanoscale*, **2018**, 10, 21918-21927	7.7	13
70	A Triplet Resonance in Superconducting Fe 1.03 Se 0.4 Te 0.6. *Chinese Physics Letters*, **2018**, 35, 127401	1.8	0
69	Reorientation of the diagonal double-stripe spin structure at FeTe bulk and thin-film surfaces. *Nature Communications*, **2017**, 8, 13939	17.4	20
68	Large linear magnetoresistance in a bismuth nanoribbon. *Applied Physics Letters*, **2017**, 110, 123101	3.4	9
67	Mott transition controlled by lattice-orbital coupling in 3d-metal-doped double-layer ruthenates. *Physical Review B*, **2017**, 96,	3.3	7
66	Unusual interlayer quantum transport behavior caused by the zeroth Landau level in YbMnBi. *Nature Communications*, **2017**, 8, 646	17.4	26
65	Isolation and Characterization of Few-Layer Manganese Thiophosphite. *ACS Nano*, **2017**, 11, 11330-11336	16.7	70
64	Evidence of Electron-Hole Imbalance in WTe 2 from High-Resolution Angle-Resolved Photoemission Spectroscopy. *Chinese Physics Letters*, **2017**, 34, 097305	1.8	9
63	Nearly massless Dirac fermions and strong Zeeman splitting in the nodal-line semimetal ZrSiS probed by de Haas–van Alphen quantum oscillations. *Physical Review B*, **2017**, 96,	3.3	87
62	Resistivity of Weyl semimetals NbP and TaP under pressure. *Physica Status Solidi - Rapid Research Letters*, **2017**, 11, 1700182	2.5	6
61	A magnetic topological semimetal SrMnSb (y, z Nature Materials, **2017**, 16, 905-910	27	87
60	Quantum oscillation studies of the topological semimetal candidate ZrGeM(M=S,Se,Te). *Physical Review B*, **2017**, 95,	3.3	44
59	Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. *Nano Letters*, **2016**, 16, 6188-6195	11.5	24
58	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. *Physical Review Letters*, **2016**, 117, 016602	7.4	270

57	Efficient Terahertz detection in black-phosphorus nano-transistors with selective and controllable plasma-wave, bolometric and thermoelectric response. *Scientific Reports*, **2016**, 6, 20474	4.9	91
56	Single- and few-layer WTe2 and their suspended nanostructures: Raman signatures and nanomechanical resonances. *Nanoscale*, **2016**, 8, 7854-60	7.7	37
55	Nanoscale Inhomogeneous Superconductivity in Fe(Te1-xSex) Probed by Nanostructure Transport. *ACS Nano*, **2016**, 10, 429-35	16.7	5
54	Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. *Nano Research*, **2016**, 9, 2598-2605	10	14
53	Heterostructured hBN-BP-hBN Nanodetectors at Terahertz Frequencies. *Advanced Materials*, **2016**, 28, 7390-6	24	72
52	Extremely large anisotropic transport caused by electronic phase separation in Ti-doped Ca3Ru2O7. *Journal Physics D: Applied Physics*, **2016**, 49, 245004	3	1
51	Magnetic phase separation in double layer ruthenates Ca3(Ru(1-x)Ti(x))2O7. *Scientific Reports*, **2016** , 6, 19462	4.9	7
50	Observation of Fermi arc and its connection with bulk states in the candidate type-II Weyl semimetal WTe2. *Physical Review B*, **2016**, 94,	3.3	158
49	Berry phase and Zeeman splitting of Weyl semimetal TaP. *Scientific Reports*, **2016**, 6, 18674	4.9	91
48	Absorption edges of black phosphorus: A comparative analysis. *Physica Status Solidi (B): Basic Research*, **2016**, 253, 2509-2514	1.3	22
47	Normal and inverse bulk spin valve effects in single-crystal ruthenates. *Applied Physics Letters*, **2016** , 108, 162402	3.4	2
46	Black phosphorus and hybrid van der wall heterostructured terahertz photodetectors **2016**,		1
45	Nearly massless Dirac fermions hosted by Sb square net in BaMnSb2. *Scientific Reports*, **2016**, 6, 30525	4.9	46
44	Environmental Instability and Degradation of Single- and Few-Layer WTe Nanosheets in Ambient Conditions. *Small*, **2016**, 12, 5802-5808	11	69
43	Enhanced electron coherence in atomically thin Nb3SiTe6. *Nature Physics*, **2015**, 11, 471-476	16.2	31
42	Drastic Pressure Effect on the Extremely Large Magnetoresistance in WTe2: Quantum Oscillation Study. *Physical Review Letters*, **2015**, 115, 057202	7.4	120
41	Host-guest interactions derived multilayer perylene diimide thin film constructed on a scaffolding porphyrin monolayer. *Langmuir*, **2015**, 31, 578-86	4	10
40	STEM and EELS Investigation on Black Phosphorus at Atomic Resolution. *Microscopy and Microanalysis*, **2015**, 21, 427-428	0.5	4

39	Origin of the turn-on temperature behavior in WTe2. *Physical Review B*, **2015**, 92,	3.3	97
38	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. *Physical Review B*, **2015**, 92,	3.3	33
37	Black Phosphorus Terahertz Photodetectors. *Advanced Materials*, **2015**, 27, 5567-72	24	212
36	Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. *Nature Communications*, **2015**, 6, 7777	17.4	110
35	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. *2D Materials*, **2015**, 2, 011001	5.9	172
34	Weak ferromagnetism of CuxFe1+yAs and its evolution with Co doping. *Physical Review B*, **2015**, 91,	3.3	5
33	Modified magnetism within the coherence volume of superconducting Fe1+δexTe1−x. *Physical Review B*, **2014**, 90,	3.3	5
32	High performance field-effect transistor based on multilayer tungsten disulfide. *ACS Nano*, **2014**, 8, 10396-402	16.4	116
31	Spin-orbit coupling and weak antilocalization in the thermoelectric material □KBi□Se□*Journal of Physics Condensed Matter*, **2014**, 26, 095801	1.8	7
30	Epitaxial strain effect on transport properties in Ca2−xSrxRuO4 thin films. *Physical Review B*, **2013**, 88,	3.3	9
29	Coupling of electronic and magnetic properties in Fe1+y(Te1−xSex). *Physical Review B*, **2013**, 88,	3.3	19
28	Possible nodal superconducting gap in Fe1+y(Te1−xSex) single crystals from ultralow temperature penetration depth measurements. *Physical Review B*, **2013**, 88,	3.3	5
27	Observation of temperature-induced crossover to an orbital-selective Mott phase in A(x)Fe(2-y)Se2 (A=K, Rb) superconductors. *Physical Review Letters*, **2013**, 110, 067003	7.4	158
26	Measurement of coherent polarons in the strongly coupled antiferromagnetically ordered iron-chalcogenide Fe1.02Te using angle-resolved photoemission spectroscopy. *Physical Review Letters*, **2013**, 110, 037003	7.4	41
25	Competition between antiferromagnetism and ferromagnetism in Sr2RuO4 probed by Mn and Co doping. *Scientific Reports*, **2013**, 3, 2950	4.9	28
24	Thickness dependent structural, magnetic, and electronic properties of the epitaxial films of transparent conducting oxide NiCo2O4. *Journal of Applied Physics*, **2013**, 114, 103704	2.5	31
23	Divergent nematic susceptibility in an iron arsenide superconductor. *Science*, **2012**, 337, 710-2	33.3	369
22	Metal insulator transition with ferrimagnetic order in epitaxial thin films of spinel NiCo2O4. *Applied Physics Letters*, **2012**, 100, 032102	3.4	58

21	Ferromagnetism in CuFeSb: Evidence of competing magnetic interactions in iron-based superconductors. *Physical Review B*, **2012**, 85,	3.3	11
20	Friedel-like oscillations from interstitial iron in superconducting Fe(1+y)Te0.62Se0.38. *Physical Review Letters*, **2012**, 108, 107002	7.4	43
19	Inhomogeneous superconductivity induced by interstitial Fe deintercalation in oxidizing-agent-annealed and HNO3-treated Fe1+y(Te1−xSex). *Superconductor Science and Technology*, **2012**, 25, 084011	3.1	15
18	Magnetic structure of quasi-one-dimensional antiferromagnetic TaFe1+yTe3. *Physical Review B*, **2012**, 85,	3.3	7
17	Precision global measurements of London penetration depth in FeTe0.58Se0.42. *Physical Review B*, **2011**, 84,	3.3	16
16	Calorimetric evidence of strong-coupling multiband superconductivity in Fe(Te0.57Se0.43) single crystal. *Physical Review B*, **2011**, 83,	3.3	46
15	Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe1-xCox)2As2 above the spin density wave transition. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 6878-6883	11.5	409
14	From (pi,0) magnetic order to superconductivity with (pi,pi) magnetic resonance in Fe(1.02)Te(1-x)Se(x). *Nature Materials*, **2010**, 9, 716-20	27	224
13	London penetration depth and superfluid density of single-crystalline Fe1+y(Te1−xSex) and Fe1+y(Te1−xSx). *Physical Review B*, **2010**, 81,	3.3	61
12	Incommensurate itinerant antiferromagnetic excitations and spin resonance in the FeTe0.6Se0.4 superconductor. *Physical Review B*, **2010**, 81,	3.3	77
11	Bulk electronic structure of optimally doped Ba(Fe1−xCox)2As2. *Physical Review B*, **2010**, 81,	3.3	28
10	Massive Dirac fermion on the surface of a magnetically doped topological insulator. *Science*, **2010**, 329, 659-62	33.3	913
9	Single Dirac cone topological surface state and unusual thermoelectric property of compounds from a new topological insulator family. *Physical Review Letters*, **2010**, 105, 266401	7.4	167
8	In-plane resistivity anisotropy in an underdoped iron arsenide superconductor. *Science*, **2010**, 329, 824-6	33.3	596
7	Electronic structure of the BaFe2As2 family of iron-pnictide superconductors. *Physical Review B*, **2009**, 80,	3.3	110
6	Evidence for a nodal-line superconducting state in LaFePO. *Physical Review Letters*, **2009**, 102, 147001	7.4	186
5	Spin gap and resonance at the nesting wave vector in superconducting FeSe_{0.4}Te_{0.6}. *Physical Review Letters*, **2009**, 103, 067008	7.4	201
4	ARPES studies of the electronic structure of LaOFe(P, As). *Physica C: Superconductivity and Its Applications*, **2009**, 469, 452-458	1.3	63

3	Charge-carrier localization induced by excess Fe in the superconductor Fe1+yTe1−xSex. *Physical Review B*, **2009**, 80,	3.3	205
2	Experimental realization of a three-dimensional topological insulator, Bi2Te3. *Science*, **2009**, 325, 178-81	33.3	2650
1	Electronic structure of the iron-based superconductor LaOFeP. *Nature*, **2008**, 455, 81-4	50.4	258