# Jin Hu

## List of Publications by Year
## in descending order

Source: https://exaly.com/author-pdf/7219384/publications.pdf

Version: 2024-02-01

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | 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: Physical Review B, 2022, 105, . | 3.2 | 4 |
| 4 | Field-Dependent Magnetic Domain Behavior in van der Waals Fe3GeTe2. Jom, 2022, 74, 2310-2318. | 1.9 | 4 |
| 5 | Visualizing discrete Fermi surfaces and possible nodal-line to Weyl state evolution in ZrSiTe. Npj Quantum Materials, 2022, 7, . | 5.2 | 2 |
| 6 | Controlling magnetic exchange and anisotropy by nonmagnetic ligand substitution in layered <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>X</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> | | |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Giant topological Hall effect in centrosymmetric tetragonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>2</ Physical Review B, 2021, 104, . | 3.2 | 9 |
| 20 | Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. Nature Materials, 2020, 19, 27-33. | 27.5 | 21 |
| 21 | Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. Nano Letters, 2020, 20, 8446-8452. | 9.1 | 44 |
| 22 | NÃ©el-type skyrmion in WTe2/Fe3GeTe2 van der Waals heterostructure. Nature Communications, 2020, 11, 3860. | 12.8 | 208 |
| 23 | Distinct magneto-Raman signatures of spin-flip phase transitions in CrI3. Nature Communications, 2020, 11, 3879. | 12.8 | 59 |
| 24 | Gate-Defined Accumulation-Mode Quantum Dots in Monolayer and Bilayer WSe2. Physical Review Applied, 2020, 13, . | 3.8 | 18 |
| 25 | Electronic correlations in nodal-line semimetals. Nature Physics, 2020, 16, 636-641. | 16.7 | 86 |
| 26 | Electronic and magnetic properties of the topological semimetal candidate NdSbTe. Physical Review B, 2020, 101, . | 3.2 | 20 |
| 27 | Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. Physical Review B, 2020, 101, . | 3.2 | 17 |
| 28 | Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. Physical Review B, 2020, 101, . | 3.2 | 4 |
| 29 | Measurement of the Low-Energy Electron Inelastic Mean Free Path in Monolayer Graphene. Physical Review Applied, 2020, 13, . | 3.8 | 10 |
| 30 | De Haasâ€“van Alphen study on three-dimensional topological semimetal pyrite PtBi2. Science Bulletin, 2019, 64, 1496-1501. | 9.0 | 4 |
| 31 | Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, . | 3.2 | 7 |
| 32 | Emergence of intrinsic superconductivity below 1.178â€‰K in the topologically non-trivial semimetal state of CaSn<sub>3</sub>. Journal of Physics Condensed Matter, 2019, 31, 245703. | 1.8 | 6 |
| 33 | 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 |
| 34 | Growth and Strain Engineering of Trigonal Te for Topological Quantum Phases in Non-Symmorphic Chiral Crystals. Crystals, 2019, 9, 486. | 2.2 | 5 |
| 35 | Observation of Plasmon Energy Gain for Emitted Secondary Electron in Vacuo. Journal of Physical Chemistry Letters, 2019, 10, 5770-5775. | 4.6 | 8 |
| 36 | Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodalâ€Line Semimetals. Advanced Functional Materials, 2019, 29, 1900438. | 14.9 | 6 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. Npj 2D Materials and Applications, 2019, 3, . | 7.9 | 10 |
| 38 | Transport of Topological Semimetals. Annual Review of Materials Research, 2019, 49, 207-252. | 9.3 | 155 |
| 39 | Chemical pressure effect on the optical conductivity of the nodal-line semimetals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZrSi</mml:mi><mml:mi>Y</mml:mi></mml:mrow><mm width="4pt" /><mml:mo>(</mml:mo><mml:mrow><mml:mi>Y</mml:mi><mml:mo>=</mml:mo><mml:mrow><mml:mi) Tj ETQq1 1 0.784314 rgBT and <mml:math xmlns:mml="http://www.w3.org/19. Physical Review B, 2019, 99, . | 3.2 | 27 |
| 40 | Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. Physical Review B, 2019, 100, . | 3.2 | 19 |
| 41 | Exfoliation and Analysis of Large-area, Air-Sensitive Two-Dimensional Materials. Journal of Visualized Experiments, 2019, , . | 0.3 | 5 |
| 42 | 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 |
| 43 | Electronic structure of Fe<sub>1.08</sub>Te bulk crystals and epitaxial FeTe thin films on Bi<sub>2</sub>Te<sub>3</sub>. Journal of Physics Condensed Matter, 2018, 30, 065502. | 1.8 | 7 |
| 44 | Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. Physical Review B, 2018, 97, . | 3.2 | 22 |
| 45 | Anisotropic ultraviolet-plasmon dispersion in black phosphorus. Nanoscale, 2018, 10, 21918-21927. | 5.6 | 18 |
| 46 | A Triplet Resonance in Superconducting Fe 1.03 Se 0.4 Te 0.6. Chinese Physics Letters, 2018, 35, 127401. | 3.3 | 5 |
| 47 | Magnetoresistance and Shubnikovâ€“de Haas oscillations in layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mn</mml:mn></mm thin flakes. Physical Review B, 2018, 97, . | 3.2 | 18 |
| 48 | Multiple topologically nontrivial bands in noncentrosymmetric YSn2. Physical Review B, 2018, 98, . | 3.2 | 4 |
| 49 | Searching for topological Fermi arcs via quasiparticle interference on a type-II Weyl semimetal MoTe2. Npj Quantum Materials, 2018, 3, . | 5.2 | 16 |
| 50 | Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. Nano Letters, 2018, 18, 4214-4219. | 9.1 | 131 |
| 51 | Thickness evolution of transport properties in exfoliated Fe1+y Te nanoflakes. Journal of Physics Condensed Matter, 2018, 30, 295303. | 1.8 | 2 |
| 52 | Reorientation of the diagonal double-stripe spin structure at Fe1+yTe bulk and thin-film surfaces. Nature Communications, 2017, 8, 13939. | 12.8 | 24 |
| 53 | Large linear magnetoresistance in a bismuth nanoribbon. Applied Physics Letters, 2017, 110, . | 3.3 | 10 |
| 54 | Mott transition controlled by lattice-orbital coupling in 3d -metal-doped double-layer ruthenates. Physical Review B, 2017, 96, . | 3.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Unusual interlayer quantum transport behavior caused by the zeroth Landau level in YbMnBi2. Nature Communications, 2017, 8, 646. | 12.8 | 35 |
| 56 | Isolation and Characterization of Few-Layer Manganese Thiophosphite. ACS Nano, 2017, 11, 11330-11336. | 14.6 | 98 |
| 57 | 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 |
| 58 | Resistivity of Weyl semimetals NbP and TaP under pressure. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700182. | 2.4 | 7 |
| 59 | A magnetic topological semimetal Sr1â^'yMn1â^'zSb2 (y, z &lt; 0.1). Nature Materials, 2017, 16, 905-910. | 27.5 | 135 |
| 60 | Quantum oscillation studies of the topological semimetal candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>ZrGe</mml:mi><mml:mi>M</mml:mi><mml:mspace width="0.16em" /><mml:mo>(</mml:mo><mml:mi>M</mml:mi><mml:mo>=</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 3.2 | 60 |
| 61 | Evidence of Electron-Hole Imbalance in WTe <sub>2</sub> from High-Resolution Angle-Resolved Photoemission Spectroscopy. Chinese Physics Letters, 2017, 34, 097305. | 3.3 | 12 |
| 62 | Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. Nano Research, 2016, 9, 2598-2605. | 10.4 | 15 |
| 63 | Heterostructured hBNâ€•BPâ€•hBN Nanodetectors at Terahertz Frequencies. Advanced Materials, 2016, 28, 7390-7396. | 21.0 | 85 |
| 64 | Extremely large anisotropic transport caused by electronic phase separation in Ti-doped Ca3Ru2O7. Journal Physics D: Applied Physics, 2016, 49, 245004. | 2.8 | 1 |
| 65 | Magnetic phase separation in double layer ruthenates Ca3(Ru1â^'xTix)2O7. Scientific Reports, 2016, 6, 19462. | 3.3 | 8 |
| 66 | Observation of Fermi arc and its connection with bulk states in the candidate type-II Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 94, . | 3.2 | 182 |
| 67 | Ï€ Berry phase and Zeeman splitting of Weyl semimetal TaP. Scientific Reports, 2016, 6, 18674. | 3.3 | 117 |
| 68 | Absorption edges of black phosphorus: A comparative analysis. Physica Status Solidi (B): Basic Research, 2016, 253, 2509-2514. | 1.5 | 24 |
| 69 | Normal and inverse bulk spin valve effects in single-crystal ruthenates. Applied Physics Letters, 2016, 108, 162402. | 3.3 | 3 |
| 70 | Black phosphorus and hybrid van der wall heterostructured terahertz photodetectors. , 2016, , . |  | 1 |
| 71 | Nearly massless Dirac fermions hosted by Sb square net in BaMnSb2. Scientific Reports, 2016, 6, 30525. | 3.3 | 75 |
| 72 | Environmental Instability and Degradation of Singleâ€•and Fewâ€•Layer WTe<sub>2</sub> Nanosheets in Ambient Conditions. Small, 2016, 12, 5802-5808. | 10.0 | 96 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 73 | Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. Nano Letters, 2016, 16, 6188-6195. | 9.1 | 37 |
| 74 | Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. Physical Review Letters, 2016, 117, 016602. | 7.8 | 378 |
| 75 | 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 |
| 76 | Single- and few-layer WTe<sub>2</sub>and their suspended nanostructures: Raman signatures and nanomechanical resonances. Nanoscale, 2016, 8, 7854-7860. | 5.6 | 44 |
| 77 | Nanoscale Inhomogeneous Superconductivity in Fe(Te1â€"xSex) Probed by Nanostructure Transport. ACS Nano, 2016, 10, 429-435. | 14.6 | 6 |
| 78 | STEM and EELS Investigation on Black Phosphorus at Atomic Resolution. Microscopy and Microanalysis, 2015, 21, 427-428. | 0.4 | 4 |
| 79 | 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></ Physical Review B, 2015, 92, . | 3.2 | 132 |
| 80 | Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, . | 3.2 | 46 |
| 81 | Black Phosphorus Terahertz Photodetectors. Advanced Materials, 2015, 27, 5567-5572. | 21.0 | 269 |
| 82 | Observation of universal strong orbital-dependent correlation effects in iron chalcogenides. Nature Communications, 2015, 6, 7777. | 12.8 | 148 |
| 83 | Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. 2D Materials, 2015, 2, 011001. | 4.4 | 209 |
| 84 | 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: its evolution with Co doping. Physical Review B, 2015, 91, . | 3.2 | 7 |
| 85 | Enhanced electron coherence in atomically thinÂNb3SiTe6. Nature Physics, 2015, 11, 471-476. | 16.7 | 46 |
| 86 | 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 |
| 87 | Hostâ€"Guest Interactions Derived Multilayer Perylene Diimide Thin Film Constructed on a Scaffolding Porphyrin Monolayer. Langmuir, 2015, 31, 578-586. | 3.5 | 11 |
| 88 | Spinâ€"orbit coupling and weak antilocalization in the thermoelectric material $eta $ -K<sub>2</sub>Bi<sub>8</sub>Se<sub>13</sub>. Journal of Physics Condensed Matter, 2014, 26, 095801. | 1.8 | 10 |
| 89 | 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></ 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>âˆ'</mml:mo><mml:mi>x</mml:mi></mml:mrow> Physical Review B, 2014, 90, . | 3.2 | 6 |
| 90 | High Performance Field-Effect Transistor Based on Multilayer Tungsten Disulfide. ACS Nano, 2014, 8, 10396-10402. | 14.6 | 142 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 91 | [illegible] strain effect on transport properties in Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Sr<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>RuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: | 3.2 | 11 |
| 92 | Coupling of electronic and magnetic properties in Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow |  |  |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 109 | 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</m Physical Review B, 2010, 81, . | 3.2 | 79 |
| 110 | Bulk electronic structure of optimally doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ba</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow Physical Review B, 2010, 81, . | 3.2 | 29 |
| 111 | Massive Dirac Fermion on the Surface of a Magnetically Doped Topological Insulator. Science, 2010, 329, 659-662. | 12.6 | 1,051 |
| 112 | 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 |
| 113 | In-Plane Resistivity Anisotropy in an Underdoped Iron Arsenide Superconductor. Science, 2010, 329, 824-826. | 12.6 | 690 |
| 114 | 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 |
| 115 | Evidence for a Nodal-Line Superconducting State in LaFePO. Physical Review Letters, 2009, 102, 147001. | 7.8 | 197 |
| 116 | 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><mm Physical Review Letters, 2009, 103, 067008. | 7.8 | 214 |
| 117 | ARPES studies of the electronic structure of LaOFe(P,As). Physica C: Superconductivity and Its Applications, 2009, 469, 452-458. | 1.2 | 67 |
| 118 | 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 |
| 119 | Experimental Realization of a Three-Dimensional Topological Insulator, Bi <sub>2</sub> Te <sub>3</sub>. Science, 2009, 325, 178-181. | 12.6 | 3,095 |
| 120 | Electronic structure of the iron-based superconductor LaOFeP. Nature, 2008, 455, 81-84. | 27.8 | 279 |