

D-H Lu

List of Publications by Year in descending order

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72
papers

9,799
citations

81900

39
h-index

82547

72
g-index

76
all docs

76
docs citations

76
times ranked

8734
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 | Quantum spin Hall state in monolayer 1T'-WTe ₂ . Nature Physics, 2017, 13, 683-687. | 16.7 | 596 |
| 3 | Interfacial mode coupling as the origin of the enhancement of T _c in FeSe films on SrTiO ₃ . Nature, 2014, 515, 245-248. | 27.8 | 567 |
| 4 | Abrupt onset of a second energy gap at the superconducting transition of underdoped Bi2212. Nature, 2007, 450, 81-84. | 27.8 | 345 |
| 5 | Distinct Fermi-Momentum-Dependent Energy Gaps in Deeply Underdoped Bi2212. Science, 2006, 314, 1910-1913. | 12.6 | 337 |
| 6 | Nodal Quasiparticles and Antinodal Charge Ordering in Ca _{2-x} NaxCuO ₂ Cl ₂ . Science, 2005, 307, 901-904. | 12.6 | 320 |
| 7 | From a Single-Band Metal to a High-Temperature Superconductor via Two Thermal Phase Transitions. Science, 2011, 331, 1579-1583. | 12.6 | 292 |
| 8 | Electronic structure of the iron-based superconductor LaOFeP. Nature, 2008, 455, 81-84. | 27.8 | 279 |
| 9 | Missing Quasiparticles and the Chemical Potential Puzzle in the Doping Evolution of the Cuprate Superconductors. Physical Review Letters, 2004, 93, 267002. | 7.8 | 242 |
| 10 | Signature of Superfluid Density in the Single-Particle Excitation Spectrum of Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . Science, 2000, 289, 277-281. | 12.6 | 240 |
| 11 | Phase competition in trisected superconducting dome. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18332-18337. | 7.1 | 222 |
| 12 | Coupling of the B _{1g} Phonon to the Antinodal Electronic States of Bi ₂ Sr ₂ Ca _{0.92} Y _{0.08} Cu ₂ O _{8+δ} . Physical Review Letters, 2004, 93, 117003. | 7.8 | 210 |
| 13 | Observation of Temperature-induced Crossover to an Orbital-Selective Mott Phase in $A_xB_{1-x}Fe_2As_2$ | | |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Hierarchy of multiple many-body interaction scales in high-temperature superconductors. Physical Review B, 2007, 75, . | 3.2 | 124 |
| 20 | Anomalous high-energy dispersion in angle-resolved photoemission spectra from the insulating cuprate $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. Physical Review B, 2005, 71, . | 3.2 | 103 |
| 21 | Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212. Science, 2018, 362, 62-65. | 12.6 | 98 |
| 22 | Evidence for a higher-order topological insulator in a three-dimensional material built from van der Waals stacking of bismuth-halide chains. Nature Materials, 2021, 20, 473-479. | 27.5 | 98 |
| 23 | Electronic Structure of the Trilayer Cuprate Superconductor $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. Physical Review Letters, 2002, 88, 107001. | 7.8 | 95 |
| 24 | Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Nature Materials, 2015, 14, 37-42. | 27.5 | 92 |
| 25 | Incoherent strange metal sharply bounded by a critical doping in Bi2212. Science, 2019, 366, 1099-1102. | 12.6 | 86 |
| 26 | Evolution of a metal to insulator transition in $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ as seen by angle-resolved photoemission. Physical Review B, 2003, 67, . | 3.2 | 83 |
| 27 | Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. Physical Review B, 2016, 94, . | 3.2 | 80 |
| 28 | Effects of next-nearest-neighbor hopping t_2 on the electronic structure of cuprate superconductors. Physical Review B, 2004, 70, . | 3.2 | 74 |
| 29 | Doping evolution of the electronic structure in the single-layer cuprate $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$. Physical Review B, 2008, 77, . | 3.2 | 71 |
| 30 | Angle-resolved photoemission studies of lattice polaron formation in the cuprate $\text{Ca}_2\text{CuO}_2\text{Cl}_2$. Physical Review B, 2007, 75, . | 3.2 | 69 |
| 31 | Anomalously strong near-neighbor attraction in doped 1D cuprate chains. Science, 2021, 373, 1235-1239. | 12.6 | 62 |
| 32 | Visualization of the strain-induced topological phase transition in a quasi-one-dimensional superconductor TaSe ₃ . Nature Materials, 2021, 20, 1093-1099. | 27.5 | 57 |
| 33 | Realizing Kagome Band Structure in Two-Dimensional Kagome Surface States of $\text{V}_6\text{R}_6\text{S}_{12}$. Physical Review B, 2021, 103, 040401. | | |

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|----|--|------|-----------|
| 37 | Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 46 |
| 38 | Electronic structure of monolayer $1T\text{-MoTe}_2$ grown by molecular beam epitaxy. <i>APL Materials</i> , 2018, 6, . | 5.1 | 44 |
| 39 | Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spin-orbit correlated metal. <i>Nature Materials</i> , 2015, 14, 577-582. | 27.5 | 43 |
| 40 | Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS_2 . <i>Nature Communications</i> , 2021, 12, 2874. | 12.8 | 43 |
| 41 | Electronic excitations near the Brillouin zone boundary of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 37 |
| 42 | Intrinsic electron and hole bands in electron-doped cuprate superconductors. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 37 |
| 43 | Stripes developed at the strong limit of nematicity in FeSe film. <i>Nature Physics</i> , 2017, 13, 957-961. | 16.7 | 35 |
| 44 | Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3449-3453. | 7.1 | 32 |
| 45 | Superconductivity-induced self-energy evolution of the nodal electron of optimally doped $\text{Bi}_2\text{Sr}_2\text{Ca}_0.92\text{Y}_0.08\text{Cu}_2\text{O}_8+\delta$. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 31 |
| 46 | Emerging coherence with unified energy, temperature, and lifetime scale in heavy fermion YbRh_2Si_2 . <i>Physical Review B</i> , 2012, 85, . | 3.2 | 28 |
| 47 | Angle-resolved photoemission spectroscopy study of $\text{PrFeAsO}_{0.7}$: Comparison with LaFePO . <i>Physical Review B</i> , 2011, 84, . | 3.2 | 26 |
| 48 | Observation of Topological Electronic Structure in Quasi-1D Superconductor TaSe_3 . <i>Matter</i> , 2020, 3, 2055-2065. | 10.0 | 26 |
| 49 | Effects of out-of-plane disorder on the nodal quasiparticle and superconducting gap in single-layer $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physical Review B</i> , 2009, 79, . | 3.2 | 25 |
| 50 | Angle-resolved photoemission spectroscopy study of $\text{PrFeAsO}_{0.7}$: Comparison with LaFePO . <i>Physical Review B</i> , 2011, 84, . | 3.2 | 23 |
| 51 | Superconducting Fluctuations in Overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physical Review X</i> , 2021, 11, . | 8.9 | 20 |
| 52 | Oxygen-content-dependent electronic structures of electron-doped cuprates. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 19 |
| 53 | Coexistence of a pseudogap and a superconducting gap for the $\text{La}_{1-x}\text{Ce}_x\text{FeAsO}$. <i>Physical Review B</i> , 2016, 93, . | 3.2 | 17 |
| 54 | Correlation-driven electronic reconstruction in $\text{FeTe}_{1-x}\text{S}_x$. <i>Communications Physics</i> , 2022, 5, . | 5.3 | 17 |

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|----|---|------|-----------|
| 55 | Dependence of Band-Renormalization Effects on the Number of Copper Oxide Layers in Tl-Based Copper Oxide Superconductors Revealed by Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2009, 103, 067003. | 7.8 | 15 |
| 56 | Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815. | 10.0 | 15 |
| 57 | Electronic structure of the BaTi ₂ As ₂ O parent compound of the titanium-based oxypnictide superconductor. Physical Review B, 2014, 89, . | 3.2 | 14 |
| 58 | Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401. | 7.8 | 14 |
| 59 | Spectroscopic Evidence for Electron-Boson Coupling in Electron-Doped $\text{Sr}_{1-x}\text{La}_x\text{Ce}_2\text{As}_2$ Superconductor. Physical Review Letters, 2019, 123, 216402. | 7.8 | 13 |
| 60 | Electronic states dressed by an out-of-plane supermodulation in the quasi-two-dimensional kagome superconductor CsV_3Sb_5 . Physical Review B, 2022, 105, . | 3.2 | 13 |
| 61 | Strongly three-dimensional electronic structure and Fermi surfaces of $\text{SrFe}_2(\text{As}_{0.65}\text{P}_{0.35})_2$: Comparison with $\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$. Physical Review B, 2014, 89, . | 3.2 | 12 |
| 62 | Dichotomy of the photo-induced 2-dimensional electron gas on SrTiO ₃ surface terminations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16687-16691. | 7.1 | 11 |
| 63 | Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb ₄ . Npj Quantum Materials, 2022, 7, . | 5.2 | 10 |
| 64 | Evolution of electronic structure from insulator to superconductor in $\text{Bi}_2\text{Sr}_2\text{La}_x(\text{Ca},\text{Y})\text{Cu}_2\text{O}_8+\delta$. Physical Review B, 2010, 81, . | 3.2 | 8 |
| 65 | Emergence of quasiparticles in a doped Mott insulator. Communications Physics, 2020, 3, . | 5.3 | 8 |
| 66 | Unconventional spectral signature of Tc in a pure d-wave superconductor. Nature, 2022, 601, 562-567. | 27.8 | 8 |
| 67 | Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates. Advanced Science, 2021, 8, 2003454. | 11.2 | 6 |
| 68 | Electronic nature of the pseudogap in electron-doped Sr ₂ IrO ₄ . Npj Quantum Materials, 2022, 7, . | 5.2 | 6 |
| 69 | Quantum-well states in fractured crystals of the heavy-fermion material CeCoIn_5 . Physical Review B, 2020, 102, . | 3.2 | 5 |
| 70 | Three interaction energy scales in the single-layer high- Tc cuprate $\text{HgBa}_2\text{CuO}_4+\delta$. Physical Review B, 2020, 102, . | 3.2 | 4 |
| 71 | Strain-controlled evolution of electronic structure indicating topological phase transition in the quasi-one-dimensional superconductor TaSe_3 . Physical Review B, 2022, 105, . | 3.2 | 4 |
| 72 | Band-dependent superconducting gap in $\text{SrFe}_2(\text{As}_{0.65}\text{P}_{0.35})_2$ studied by angle-resolved photoemission spectroscopy. Scientific Reports, 2019, 9, 16418. | 3.3 | 0 |