D-H Lu

List of Publications by Year
in descending order

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	Unconventional spectral signature of Tc in a pure d-wave superconductor. Nature, 2022, 601, 562-567.	27.8	8
2	Unconventional Hysteretic Transition in a Charge Density Wave. Physical Review Letters, 2022, 128, 036401.	7.8	14
3	Correlation-driven electronic reconstruction in FeTe1â^'xSex. Communications Physics, 2022, 5, .	5.3	17
4	Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy. Matter, 2022, 5, 1806-1815.	10.0	15
5	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb4. Npj Quantum Materials, 2022, 7, .	5.2	10
6	Strain-controlled evolution of electronic structure indicating topological phase transition in the quasi-one-dimensional superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaSe</mml:mi><mml:mn>3</mml:mn></mml:msub></mm Physical Review B, 2022, 105, .	3.2	4
7	Electronic nature of the pseudogap in electron-doped Sr2IrO4. Npj Quantum Materials, 2022, 7, .	5.2	6
8	Electronic states dressed by an out-of-plane supermodulation in the quasi-two-dimensional kagome superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CsV</mml:mi><mml:mn>3</mml:mn></mml:mm Physical Review B, 2022, 105, .	3.2	13
9	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
10	Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates. Advanced Science, 2021, 8, 2003454.	11.2	6
11	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS2. Nature Communications, 2021, 12, 2874.	12.8	43
12	Visualization of the strain-induced topological phase transition in a quasi-one-dimensional superconductor TaSe3. Nature Materials, 2021, 20, 1093-1099.	27.5	57
13	Superconducting Fluctuations in Overdoped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mm Physical Review X, 2021, 11, .	8.9	20
14	Anomalously strong near-neighbor attraction in doped 1D cuprate chains. Science, 2021, 373, 1235-1239.	12.6	62
15	Realizing Kagome Band Structure in Two-Dimensional Kagome Surface States of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mrow><mml:mi mathvariant="normal">V</mml:mi></mml:mrow><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mm		

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19	Three interaction energy scales in the single-layer high- Tc cuprate HgBa2CuO4+Î´. Physical Review B, 2020, 102, .	3.2	4
20	Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3449-3453.	7.1	32
21	Spectroscopic Evidence for Electron-Boson Coupling in Electron-Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Physical Review Letters, 2019, 123, 216402.	7.8	13
22	Incoherent strange metal sharply bounded by a critical doping in Bi2212. Science, 2019, 366, 1099-1102.	12.6	86
23	Band-dependent superconducting gap in SrFe2(As0.65P0.35)2 studied by angle-resolved photoemission spectroscopy. Scientific Reports, 2019, 9, 16418.	3.3	0
24	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
25	Electronic structure of monolayer 1Tâ€²-MoTe2 grown by molecular beam epitaxy. APL Materials, 2018, 6, .	5.1	44
26	Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212. Science, 2018, 362, 62-65.	12.6	98
27	Ubiquitous strong electronâ€“phonon coupling at the interface of FeSe/SrTiO3. Nature Communications, 2017, 8, 14468.	12.8	51
28	Stripes developed at the strong limit of nematicity in FeSe film. Nature Physics, 2017, 13, 957-961.	16.7	35
29	Quantum spin Hall state in monolayer 1T'-WTe2. Nature Physics, 2017, 13, 683-687.	16.7	596
30	Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film. Physical Review B, 2016, 94, .	3.2	80
31	Coexistence of a pseudogap and a superconducting gap for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>high</mml:mtext><mml:mo>â^’</mml:mo><mml:msub><mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:m Physical Review B, 2016, 93, .	3.2	17
32	Experimental observation of incoherent-coherent crossover and orbital-dependent band renormalization in iron chalcogenide superconductors. Physical Review B, 2015, 92, .	3.2	46
33	Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spinâ€“orbit correlated metal. Nature Materials, 2015, 14, 577-582.	27.5	43
34	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi2Sr2CaCu2O8+Î´. Nature Materials, 2015, 14, 37-42.	27.5	92
35	Interfacial mode coupling as the origin of the enhancement of Tc in FeSe films on SrTiO3. Nature, 2014, 515, 245-248.	27.8	567
36	Strongly three-dimensional electronic structure and Fermi surfaces ofSrFe2(As0.65P0.35)2: Comparison withBaFe2(As1â^’xPx)2. Physical Review B, 2014, 89, .	3.2	12

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37	Electronic structure of theBaTi2As2Oparent compound of the titanium-based oxypnictide superconductor. Physical Review B, 2014, 89, .	3.2	14
38	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></r		

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55	Superconductivity-induced self-energy evolution of the nodal electron of optimally dopedBi2Sr2Ca0.92Y0.08Cu2O8+Î´. Physical Review B, 2008, 77, .	3.2	31
56	Extracting the spectral function of the cuprates by a full two-dimensional analysis: Angle-resolved photoemission spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</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>	3.2	26
57	Angle-resolved photoemission studies of lattice polaron formation in the cuprateCa2CuO2Cl2. Physical Review B, 2007, 75, .	3.2	69
58	Hierarchy of multiple many-body interaction scales in high-temperature superconductors. Physical Review B, 2007, 75, .	3.2	124
59	Low-energy electronic structure of the high-Tccuprates La2â^'xSrxCuO4studied by angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2007, 19, 125209.	1.8	132
60	Abrupt onset of a second energy gap at the superconducting transition of underdoped Bi2212. Nature, 2007, 450, 81-84.	27.8	345
61	Distinct Fermi-Momentum-Dependent Energy Gaps in Deeply Underdoped Bi2212. Science, 2006, 314, 1910-1913.	12.6	337
62	A review of electron-phonon coupling seen in the high-Tc superconductors by angle-resolved photoemission studies (ARPES). Physica Status Solidi (B): Basic Research, 2005, 242, 11-29.	1.5	142
63	Anomalous high-energy dispersion in angle-resolved photoemission spectra from the insulating cuprateCa2CuO2Cl2. Physical Review B, 2005, 71, .	3.2	103
64	Nodal Quasiparticles and Antinodal Charge Ordering in Ca2-xNaxCuO2Cl2. Science, 2005, 307, 901-904.	12.6	320
65	Effects of next-nearest-neighbor hoppingtâ€²on the electronic structure of cuprate superconductors. Physical Review B, 2004, 70, .	3.2	74
66	Coupling of theB1gPhonon to the Antinodal Electronic States ofBi2Sr2Ca0.92Y0.08Cu2O8+Î´. Physical Review Letters, 2004, 93, 117003.	7.8	210
67	Missing Quasiparticles and the Chemical Potential Puzzle in the Doping Evolution of the Cuprate Superconductors. Physical Review Letters, 2004, 93, 267002.	7.8	242
68	Evolution of a metal to insulator transition inCa2â^'xNaxCuO2Cl2as seen by angle-resolved photoemission. Physical Review B, 2003, 67, .	3.2	83
69	Electronic excitations near the Brillouin zone boundary ofBi2Sr2CaCu2O8+Î´. Physical Review B, 2002, 65, .	3.2	37
70	Electronic Structure of the Trilayer Cuprate SuperconductorBi2Sr2Ca2Cu3O10+Î´. Physical Review Letters, 2002, 88, 107001.	7.8	95
71	Superconducting Gap and Strong In-Plane Anisotropy in UntwinnedYBa2Cu3O7â^'Î´. Physical Review Letters, 2001, 86, 4370-4373.	7.8	150
72	Signature of Superfluid Density in the Single-Particle Excitation Spectrum of Bi2Sr2CaCu2O8+delta. Science, 2000, 289, 277-281.	12.6	240