Yu He

List of Publications by Year
in descending order

34 papers	2,257 citations	331670 21 h-index	377865 34 g-index
36 all docs	36 docs citations	36 times ranked	2810 citing authors

#	Article	IF	Citations
1	Charge Order Driven by Fermi-Arc Instability in Bi ₂ Sr _{2â˜ x} La _x CuO _{6+Î´}. Science, 2014, 343, 390-392.	12.6	512
2	Angle-resolved photoemission studies of quantum materials. Reviews of Modern Physics, 2021, 93, .	45.6	230
3	Quantum Criticality and Nodal Superconductivity in the FeAs-Based Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>KFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mn Physical Review Letters, 2010, 104, 087005.	7.8	213
4	Fermi Surface and Pseudogap Evolution in a Cuprate Superconductor. Science, 2014, 344, 608-611.	12.6	130
5	Dispersive charge density wave excitations in Bi2Sr2CaCu2O8+Î´. Nature Physics, 2017, 13, 952-956.	16.7	101
6	Rapid change of superconductivity and electron-phonon coupling through critical doping in Bi-2212. Science, 2018, 362, 62-65.	12.6	98
7	Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi2Sr2CaCu2O8+Î´. Nature Materials, 2015, 14, 37-42.	27.5	92
8	Temperature profile for glacial ice at the South Pole: Implications for life in a nearby subglacial lake. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7844-7847.	7.1	91
9	Incoherent strange metal sharply bounded by a critical doping in Bi2212. Science, 2019, 366, 1099-1102.	12.6	86
10	Distinct Electronic Structure for the Extreme Magnetoresistance in YSb. Physical Review Letters, 2016, 117, 267201.	7.8	77
11	Nematic Energy Scale and the Missing Electron Pocket in FeSe. Physical Review X, 2019, 9, .	8.9	66
12	Invited Article: High resolution angle resolved photoemission with tabletop 11 eV laser. Review of Scientific Instruments, 2016, 87, 011301.	1.3	51
13	Structure and Physical Properties of the Layered Pnictide-Oxides: (SrF)2Ti2Pn2O (Pn = As, Sb) and (SmO)2Ti2Sb2O. Chemistry of Materials, 2010, 22, 1503-1508.	6.7	50
14	Inequivalence of Single-Particle and Population Lifetimes in a Cuprate Superconductor. Physical Review Letters, 2015, 114, 247001.	7.8	49
15	Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spinâ€“orbit correlated metal. Nature Materials, 2015, 14, 577-582.	27.5	43
16	Observation of topological superconductivity in a stoichiometric transition metal dichalcogenide 2M-WS2. Nature Communications, 2021, 12, 2874.	12.8	43
17	Electron spin resonance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>EuFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>2 crystals. Physical Review B, 2010, 81, .	3.2	36
18	Raman and fluorescence characteristics of resonant inelastic X-ray scattering from doped superconducting cuprates. Scientific Reports, 2016, 6, 19657.	3.3	32

#	Article	IF	Citations
19	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
20	Mode-Selective Coupling of Coherent Phonons to the Bi2212 Electronic Band Structure. Physical Review Letters, 2019, 122, 176403.	7.8	29
21	Persistent low-energy phonon broadening near the charge-order <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>q</mml:mi></mml:math> vector in the bilayer cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B.	3.2	22
22	Evidence for competing magnetic and superconducting phases in superconducting Eu_{1 â^’ x}Sr_xFe_{2 â^’ y}Co_yAs₂single crystals. Journal of Physics Condensed Matter, 2010, 22, 235701.	1.8	21
23	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></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review X, 2021, 11, .	8.9	20
24	Revealing the Coulomb interaction strength in a cuprate superconductor. Physical Review B, 2017, 96, .	3.2	19
25	Visualizing dispersive features in 2D image via minimum gradient method. Review of Scientific Instruments, 2017, 88, 073903.	1.3	16
26	Metallic surface states in a correlated d-electron topological Kondo insulator candidate FeSb2. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15409-15413.	7.1	15
27	Super resolution convolutional neural network for feature extraction in spectroscopic data. Review of Scientific Instruments, 2020, 91, 033905.	1.3	15
28	Evidence for local moments by electron spin resonance study of polycrystallineLaFeAsO1â^’xFx(x=0and) Tj ETQq0 0 0 rgBT /Overlock 10	3.2	14
29	Short-Range Nematic Fluctuations in <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></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2021, 126, 107001.	7.8	12
30	Large thermopower from dressed quasiparticles in the layered cobaltates and rhodates. Physical Review B, 2017, 96, .	3.2	11
31	Spectral Evidence for Emergent Order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2018, 121, 127001.	7.8	11
32	Emergence of quasiparticles in a doped Mott insulator. Communications Physics, 2020, 3, .	5.3	8
33	Unconventional spectral signature of Tc in a pure d-wave superconductor. Nature, 2022, 601, 562-567.	27.8	8
34	Structural and magnetic transitions in the planar antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:msub><mml:msub><mml:mrow></mml:mrow><mml:mrow><mml:mn>10</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2021, 103, .	3.2	3