Mun Chan

List of Publications by Year
in descending order

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48 papers	2,208 citations	236925 25 h-index	214800 47 g-index
48 all docs	48 docs citations	48 times ranked	2664 citing authors

#	Article	IF	Citations
1	Dirac fermions and flat bands in the ideal kagome metal FeSn. Nature Materials, 2020, 19, 163-169.	27.5	367
2	Charge order and its connection with Fermi-liquid charge transport in a pristine high-Tc cuprate. Nature Communications, 2014, 5, 5875.	12.8	259
3	Universal sheet resistance and revised phase diagram of the cuprate high-temperature superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12235-12240.	7.1	142
4	Universal quantum oscillations in the underdoped cuprate superconductors. Nature Physics, 2013, 9, 761-764.	16.7	130
5	Spectroscopic evidence for Fermi liquid-like energy and temperature dependence of the relaxation rate in the pseudogap phase of the cuprates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5774-5778.	7.1	108
6	Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn5. Nature, 2017, 548, 313-317.	27.8	89
7	Fermi surface in the absence of a Fermi liquid in the Kondo insulator SmB6. Nature Physics, 2018, 14, 166-172.	16.7	81
8	In-Plane Magnetoresistance Obeys Kohlerâ€™s Rule in the Pseudogap Phase of Cuprate Superconductors. Physical Review Letters, 2014, 113, 177005.	7.8	78
9	Hall, Seebeck, and Nernst Coefficients of Underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>HgBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>CuO</mml:mi><mml:mi><mml:mn Fermi-Surface Reconstruction in an Archetypal Cuprate Superconductor. Physical Review X, 2013, 3, .	8.9	62
10	Commensurate antiferromagnetic excitations as a signature of the pseudogap in the tetragonal high-Tc cuprate HgBa2CuO4+Î´. Nature Communications, 2016, 7, 10819.	12.8	55
11	Electrical Measurement of the Direct Spin Hall Effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Fe</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>In</mml:mi><mml:mi>x</mml:mi></mml:msub><mml Physical Review Letters, 2010, 105, 156602.	7.8	53
12	de Haas-van Alphen effect of correlated Dirac states in kagome metal Fe3Sn2. Nature Communications, 2019, 10, 4870.	12.8	48
13	Magnetic properties of uncultivated magnetotactic bacteria and their contribution to a stratified estuary iron cycle. Nature Communications, 2014, 5, 4797.	12.8	46
14	Single reconstructed Fermi surface pocket in an underdoped single-layer cuprate superconductor. Nature Communications, 2016, 7, 12244.	12.8	46
15	Hyperfine interactions and spin transport in ferromagnet-semiconductor heterostructures. Physical Review B, 2009, 80, .	3.2	43
16	Identification and separation of two distinct contributions to the training effect in polycrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Co</mml:mi><mml:mo>â^•</mml:mo><mml:mi>FeMn</mml:mi></mml:mrow></mml:math>bila Physical Review B, 2008, 77, .	3.2	41
17	Angle-resolved photoemission spectroscopy study ofHgBa2CuO4+Î´. Physical Review B, 2014, 89, .	3.2	40
18	Absence of Static Loop-Current Magnetism at the Apical Oxygen Site inHgBa2CuO4+Î´from NMR. Physical Review Letters, 2013, 111, 187003.	7.8	38

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19	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, .	5.2	38
20	Photo-enhanced antinodal conductivity in the pseudogap state of high-Tc cuprates. Nature Communications, 2014, 5, 4353.	12.8	35
21	Evidence of two-dimensional flat band at the surface of antiferromagnetic kagome metal FeSn. Nature Communications, 2021, 12, 5345.	12.8	34
22	Correlation between scale-invariant normal-state resistivity and superconductivity in an electron-doped cuprate. Science Advances, 2019, 5, eaav6753.	10.3	29
23	Two Ising-like magnetic excitations in a single-layer cuprate superconductor. Nature Physics, 2012, 8, 404-410.	16.7	28
24	The rate of quasiparticle recombination probes the onset of coherence in cuprate superconductors. Scientific Reports, 2016, 6, 23610.	3.3	27
25	Feedback Effect on High-Energy Magnetic Fluctuations in the Model High-Temperature SuperconductorHgBa2CuO4+Î´Observed by Electronic Raman Scattering. Physical Review Letters, 2012, 108, 227003.	7.8	26
26	Hourglass Dispersion and Resonance of Magnetic Excitations in the Superconducting State of the Single-Layer Cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>HgBa</mml:mi></mml:mrow><mml:mrow><mml:mn>2 Near O. Physical Review Letters, 2016, 117, 277002.	7.8	26
27	Doping-Dependent Photon Scattering Resonance in the Model High-Temperature Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>HgBa</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>CuO</mml:mi><mml:mi><mn by Raman Scattering and Optical Ellipsometry. Physical Review Letters, 2013, 111, 187001.	7.8	25
28	Scale-invariant magnetic anisotropy in RuCl3 at high magnetic fields. Nature Physics, 2021, 17, 240-244.	16.7	25
29	Orientation of the intra-unit-cell magnetic moment in the high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi mathvariant="normal">c</mml:mi></mml:msub></mml:math> superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>HgB</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Cu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Pla	8.2	20
30	Evidence for a universal Fermi-liquid scattering rate throughout the phase diagram of the copper-oxide superconductors. New Journal of Physics, 2019, 21, 113007.	2.9	19
31	Magnetic field-tuned Fermi liquid in a Kondo insulator. Nature Communications, 2019, 10, 5487.	12.8	18
32	Electronic spin susceptibilities and superconductivity inHgBa2CuO4+Î´from nuclear magnetic resonance. Physical Review B, 2015, 92, .	3.2	16
33	Quantum oscillations from the reconstructed Fermi surface in electron-doped cuprate superconductors. New Journal of Physics, 2018, 20, 043019.	2.9	14
34	Magnetoresistance Scaling Reveals Symmetries of the Strongly Correlated Dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>		

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37	Strain derivatives ofTcin HgBa2CuO4+Î´: The CuO2plane alone is not enough. Physical Review B, 2014, 89, .	3.2	11
38	Unconventional quantum vortex matter state hosts quantum oscillations in the underdoped high-temperature cuprate superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
39	Magnetic breakdown and charge density wave formation: A quantum oscillation study of the rare-earth tritellurides. Physical Review B, 2020, 102, .	3.2	8
40	Extent of Fermi-surface reconstruction in the high-temperature superconductor HgBa2CuO4+Î´. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9782-9786.	7.1	7
41	Hard antinodal gap revealed by quantum oscillations in the pseudogap regime of underdoped high-Tc superconductors. Nature Physics, 2020, 16, 841-847.	16.7	7
42	Coherent charge and spin density waves in underdoped HgBa2CuO4+Î´. New Journal of Physics, 2017, 19, 033024.	2.9	6
43	Temperature and field dependence of the anisotropy parameter for the high-temperature superconductor HgBa2CuO4+Î´. Superconductor Science and Technology, 2012, 25, 115010.	3.5	4
44	Hidden strange metallic state in underdoped electron-doped cuprates. Physical Review B, 2021, 103, .	3.2	3
45	Magnetic-field-induced vortex-lattice transition in HgBa2CuO4+Î´. Physical Review B, 2017, 95, .	3.2	2
46	Recordâ€Breaking Magnetoresistance at the Edge of a Microflake of Natural Graphite. Advanced Engineering Materials, 2019, 21, 1900991.	3.5	2
47	Proximity to a critical point driven by electronic entropy in URu2Si2. Npj Quantum Materials, 2021, 6, .	5.2	1
48	Electrical measurement of the spin Hall effects in Fe/In<inf>x</inf>Ga<inf>1−x</inf>As heterostructures. , 2011, , .		0