

Eric Hudson

List of Publications by Year in descending order

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304368

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#	ARTICLE	IF	CITATIONS
1	A Four Unit Cell Periodic Pattern of Quasi-Particle States Surrounding Vortex Cores in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Science</i> , 2002, 295, 466-469.	6.0	781
2	Microscopic electronic inhomogeneity in the high- T_c superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Nature</i> , 2001, 413, 282-285.	13.7	778
3	Imaging the granular structure of high- T_c superconductivity in underdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Nature</i> , 2002, 415, 412-416.	13.7	687
4	Imaging the effects of individual zinc impurity atoms on superconductivity in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Nature</i> , 2000, 403, 746-750.	13.7	574
5	Coincidence of Checkerboard Charge Order and Antinodal State Decoherence in Strongly Underdoped Superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2005, 94, 197005.	2.9	361
6	Charge-density-wave origin of cuprate checkerboard visualized by scanning tunnelling microscopy. <i>Nature Physics</i> , 2008, 4, 696-699.	6.5	321
7	Interplay of magnetism and high- T_c superconductivity at individual Ni impurity atoms in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Nature</i> , 2001, 411, 920-924.	13.7	307
8	STM Studies of the Electronic Structure of Vortex Cores in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review Letters</i> , 2000, 85, 1536-1539.	2.9	279
9	^3He refrigerator based very low temperature scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 1999, 70, 1459-1463.	0.6	232
10	Atomic-Scale Quasi-Particle Scattering Resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+}$. <i>Science</i> , 1999, 285, 88-91.	6.0	199
11	Imaging the two gaps of the high-temperature superconductor $\text{Bi}_2\text{Sr}_2\text{CuO}_{6+x}$. <i>Nature Physics</i> , 2007, 3, 802-806.	6.5	193
12	Quantum phase transition from triangular to stripe charge order in NbSe_2 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1623-1627.	3.3	145
13	Fermi Surface and Pseudogap Evolution in a Cuprate Superconductor. <i>Science</i> , 2014, 344, 608-611.	6.0	130
14	Vacuum tunneling of superconducting quasiparticles from atomically sharp scanning tunneling microscope tips. <i>Applied Physics Letters</i> , 1998, 73, 2992-2994.	1.5	124
15	Nanoscale One-Dimensional Scattering Resonances in the CuO Chains of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. <i>Physical Review Letters</i> , 2002, 88, 097002.	2.9	97
16	Imaging nanoscale Fermi-surface variations in an inhomogeneous superconductor. <i>Nature Physics</i> , 2009, 5, 213-216.	6.5	81
17	Scanning tunnelling microscopy imaging of symmetry-breaking structural distortion in the bismuth-based cuprate superconductors. <i>Nature Materials</i> , 2012, 11, 585-589.	13.3	39
18	Real-space imaging of structural transitions in the vortex lattice of V_3Si . <i>Physical Review B</i> , 2003, 68, .	1.1	37

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19	Topological Dangling Bonds with Large Spin Splitting and Enhanced Spin Polarization on the Surfaces of Bi_2Se_3 . Nano Letters, 2013, 13, 1915-1919.	4.5	36
20	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. Physical Review B, 2013, 87, .	1.1	33
21	Visualization of the interplay between high-temperature superconductivity, the pseudogap and impurity resonances. Nature Physics, 2008, 4, 108-111.	6.5	26
22	Imaging and identification of atomic planes of cleaved $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ by high resolution scanning tunneling microscopy. Applied Physics Letters, 1998, 73, 58-60.	1.5	24
23	Surface single-molecule dynamics controlled by entropy at low temperatures. Nature Communications, 2017, 8, 14404.	5.8	22
24	STM study of novel resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physica B: Condensed Matter, 2003, 329-333, 1365-1366.	1.3	16
25	A very low temperature vibration isolation system. European Physical Journal D, 1996, 46, 2737-2738.	0.4	11
26	Density Wave Probes Cuprate Quantum Phase Transition. Physical Review X, 2019, 9, .	2.8	11
27	Atomistic-Scale Simulations on Graphene Bending Near a Copper Surface. Catalysts, 2021, 11, 208.	1.6	11
28	Suppression of Superfluid Density and the Pseudogap State in the Cuprates by Impurities. Physical Review Letters, 2016, 117, 257003.	2.9	10
29	<title>Facility for nanoscience research: an overview</title>. , 2002, , .		7
30	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19685-19693.	3.3	6
31	A detailed scanning tunneling microscopy study of the CuO chains in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physica C: Superconductivity and Its Applications, 2000, 341-348, 425-428.	0.6	4
32	Vortex-induced quasi-particle "checkerboard" in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physica C: Superconductivity and Its Applications, 2003, 388-389, 703-704.	0.6	3
33	An auxiliary capacitor based ultrafast drive circuit for shear piezoelectric motors. Review of Scientific Instruments, 2009, 80, 095110.	0.6	3
34	ANITA "An active vibration cancellation system for scanning probe microscopy. Review of Scientific Instruments, 2018, 89, 063703.	0.6	3
35	STM of quasiparticle scattering resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physica B: Condensed Matter, 2000, 284-288, 969-970.	1.3	2
36	Fits and starts. Nature Physics, 2008, 4, 271-272.	6.5	0

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37	Microscopic Electronic Inhomogeneity in the High- T_c Superconductor $\text{Bi}_{2-x}\text{Sr}_{2+x}\text{CaCu}_2\text{O}_{8-x}$. Peking University-World Scientific Advanced Physics Series, 2018, , 77-88.	0.0	0