

# Eric Hudson

## List of Publications by Year in descending order

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37  
papers

5,595  
citations

304368

22  
h-index

360668

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomistic-Scale Simulations on Graphene Bending Near a Copper Surface. <i>Catalysts</i> , 2021, 11, 208.	1.6	11
2	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19685-19693.	3.3	6
3	Density Wave Probes Cuprate Quantum Phase Transition. <i>Physical Review X</i> , 2019, 9, .	2.8	11
4	ANITA—An active vibration cancellation system for scanning probe microscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 063703.	0.6	3
5	Microscopic Electronic Inhomogeneity in the High- $T_c$ Superconductor $\text{Bi}_{2-x}\text{Sr}_x\text{CaCu}_2\text{O}_{8+x}$ . <i>Peking University-World Scientific Advanced Physics Series</i> , 2018, , 77-88.	0.0	0
6	Surface single-molecule dynamics controlled by entropy at low temperatures. <i>Nature Communications</i> , 2017, 8, 14404.	5.8	22
7	Suppression of Superfluid Density and the Pseudogap State in the Cuprates by Impurities. <i>Physical Review Letters</i> , 2016, 117, 257003.	2.9	10
8	Fermi Surface and Pseudogap Evolution in a Cuprate Superconductor. <i>Science</i> , 2014, 344, 608-611.	6.0	130
9	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. <i>Physical Review B</i> , 2013, 87, .	1.1	33
10	Quantum phase transition from triangular to stripe charge order in $\text{NbSe}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1623-1627.	3.3	145
11	Topological Dangling Bonds with Large Spin Splitting and Enhanced Spin Polarization on the Surfaces of $\text{Bi}_2\text{Se}_3$ . <i>Nano Letters</i> , 2013, 13, 1915-1919.	4.5	36
12	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
13	An auxiliary capacitor based ultrafast drive circuit for shear piezoelectric motors. <i>Review of Scientific Instruments</i> , 2009, 80, 095110.	0.6	3
14	Imaging nanoscale Fermi-surface variations in an inhomogeneous superconductor. <i>Nature Physics</i> , 2009, 5, 213-216.	6.5	81
15	Charge-density-wave origin of cuprate checkerboard visualized by scanning tunnelling microscopy. <i>Nature Physics</i> , 2008, 4, 696-699.	6.5	321
16	Visualization of the interplay between high-temperature superconductivity, the pseudogap and impurity resonances. <i>Nature Physics</i> , 2008, 4, 108-111.	6.5	26
17	Fits and starts. <i>Nature Physics</i> , 2008, 4, 271-272.	6.5	0
18	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

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19	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
20	STM study of novel resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1365-1366.	1.3	16
21	Vortex-induced quasi-particle $\tilde{c}$ -checkerboard <sup>TM</sup> in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 703-704.	0.6	3
22	Real-space imaging of structural transitions in the vortex lattice of $\text{V}_3\text{Si}$ . <i>Physical Review B</i> , 2003, 68, .	1.1	37
23	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
24	<title>Facility for nanoscience research: an overview</title>. , 2002, , .		7
25	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
26	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
27	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
28	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
29	STM of quasiparticle scattering resonances in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ . <i>Physica B: Condensed Matter</i> , 2000, 284-288, 969-970.	1.3	2
30	A detailed scanning tunneling microscopy study of the CuO chains in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 425-428.	0.6	4
31	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
32	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
33	$^3\text{He}$ refrigerator based very low temperature scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 1999, 70, 1459-1463.	0.6	232
34	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
35	Vacuum tunneling of superconducting quasiparticles from atomically sharp scanning tunneling microscope tips. <i>Applied Physics Letters</i> , 1998, 73, 2992-2994.	1.5	124
36	Imaging and identification of atomic planes of cleaved $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ by high resolution scanning tunneling microscopy. <i>Applied Physics Letters</i> , 1998, 73, 58-60.	1.5	24

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37	A very low temperature vibration isolation system. European Physical Journal D, 1996, 46, 2737-2738.	0.4	11