

Christoph Renner

List of Publications by Year in descending order

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82
papers

5,611
citations

136950

32
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74163

75
g-index

83
all docs

83
docs citations

83
times ranked

5021
citing authors

#	ARTICLE	IF	CITATIONS
19	Structure of Self-Assembled Mn Atom Chains on Si(001). Physical Review Letters, 2015, 115, 256104.	7.8	9
20	Crystal-clear â€“ The '2014 Most Superlative Crystal Growth Contest' for School Classes. Chimia, 2014, 68, 893.	0.6	1
21	Surface transport and band gap structure of exfoliated 2H-MoTe ₂ crystals. 2D Materials, 2014, 1, 021002.	4.4	151
22	Doping Nature of Native Defects in 1T Physical Review Letters, 2014, 112, 197001.		
23	Quantitative Analysis of Scanning Tunneling Microscopy Images of Mixed-Ligand-Functionalized Nanoparticles. Langmuir, 2013, 29, 13723-13734.	3.5	32
24	High-Resolution Scanning Tunneling Microscopy Characterization of Mixed Monolayer Protected Gold Nanoparticles. ACS Nano, 2013, 7, 8529-8539.	14.6	76
25	Scalable Patterning of One-Dimensional Dangling Bond Rows on Hydrogenated Si(001). ACS Nano, 2013, 7, 4422-4428.	14.6	13
26	One-dimensional silicon nanolines in the Si(001):H surface. , 2013, , .		0
27	Half-filled orbital and unconventional geometry of a common dopant in Si(001). Physical Review B, 2013, 88, .	3.2	2
28	Piezoresistance in Silicon at Uniaxial Compressive Stresses up to 3 GPa. Physical Review Letters, 2012, 108, 256801.	7.8	18
29	Imaging oxygen defects and their motion at a manganite surface. Nature Communications, 2011, 2, 212.	12.8	44
30	Charge density waves in the graphene sheets of the superconductor CaC ₆ . Nature Communications, 2011, 2, 558.	12.8	56
31	Manganese silicide nanowires on Si(001). Journal of Physics Condensed Matter, 2011, 23, 172001.	1.8	8
32	Endotaxial Si nanolines in Si(001):H. Physical Review B, 2011, 84, .	3.2	11
33	One-dimensional Si-in-Si(001) template for single-atom wire growth. Applied Physics Letters, 2010, 97, 093102.	3.3	12
34	Giant Piezoresistance Effects in Silicon Nanowires and Microwires. Physical Review Letters, 2010, 105, 226802.	7.8	119
35	Hands-on inspiration for science. Nature Materials, 2009, 8, 245-247.	27.5	3
36	Giant Room-Temperature Piezoresistance in a Metal-Silicon Hybrid Structure. Physical Review Letters, 2008, 100, 145501.	7.8	35

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37	The surface layer of cleaved bilayer manganites. <i>Nanotechnology</i> , 2007, 18, 044020.	2.6	12
38	Scanning tunneling spectroscopy of high-temperature superconductors. <i>Reviews of Modern Physics</i> , 2007, 79, 353-419.	45.6	817
39	Molecular Thin Films: A New Type of Magnetic Switch. <i>Advanced Materials</i> , 2007, 19, 3618-3622.	21.0	133
40	Trapping, self-trapping and the polaron family. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 255208.	1.8	182
41	Imaging of Polarons in Ferromagnetic Bilayered Manganites by Scanning Tunneling Microscopy. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 20, 531-533.	1.8	2
42	Scanning Tunneling Microscopy and Spectroscopy of Manganites. , 2007, , 534-558.		0
43	Polarons and confinement of electronic motion to two dimensions in a layered manganite. <i>Nature</i> , 2006, 440, 1025-1028.	27.8	100
44	Will nanotechnology change IT paradigms?. <i>BT Technology Journal</i> , 2006, 24, 163-169.	0.5	1
45	Charge ordering, stripes and phase separation in manganese perovskite oxides: An STM/STS study. <i>Materials Science and Engineering C</i> , 2005, 25, 775-778.	7.3	12
46	Scanning Tunneling Spectroscopy on High Temperature Superconductors. , 2002, , 487-502.		0
47	Atomic-scale images of charge ordering in a mixed-valence manganite. <i>Nature</i> , 2002, 416, 518-521.	27.8	231
48	Linear and Field-Independent Relation between Vortex Core State Energy and Gap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physical Review Letters</i> , 2001, 87, 267001.	7.8	42
49	Scanning Tunneling Spectroscopy of $\text{Bi}_2\text{Sr}_2\text{CuO}_6+\delta$: New Evidence for the Common Origin of the Pseudogap and Superconductivity. <i>Physical Review Letters</i> , 2001, 86, 4911-4914.	7.8	170
50	A ^3He refrigerated scanning tunneling microscope in high magnetic fields and ultrahigh vacuum. <i>Review of Scientific Instruments</i> , 2000, 71, 1475-1478.	1.3	43
51	A ^3He cooled scanning tunneling microscope in UHV and high fields. <i>Physica B: Condensed Matter</i> , 2000, 280, 551-552.	2.7	3
52	Temperature dependence of tunneling spectra in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ and $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$ single crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 109, 147-155.	1.7	12
53	Low-energy structures in vortex core tunneling spectra in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\delta$. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 332, 440-444.	1.2	28
54	Piezoelectric response of epitaxial $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ films measured by scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2000, 77, 1701-1703.	3.3	31

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55	Shape and motion of vortex cores in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review B, 2000, 62, 9179-9185.	3.2	31
56	Renner et al. Reply. Physical Review Letters, 1999, 82, 3726-3726.	7.8	2
57	Specific heat of high temperature superconductors in high fields at T_c : from BCS to the Bose-Einstein condensation. Physica C: Superconductivity and Its Applications, 1999, 317-318, 333-344.	1.2	65
58	Pseudogap Precursor of the Superconducting Gap in Under- and Overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review Letters, 1998, 80, 149-152.	7.8	938
59	Rastertunnelspektroskopie auf Hochtemperatur-Supraleitern: Ortsaufgelöste Tunnelspektroskopie und Abbildung des Flusswirbelgitters. Physik Journal, 1998, 54, 427-430.	0.1	5
60	Observation of the Low Temperature Pseudogap in the Vortex Cores of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review Letters, 1998, 80, 3606-3609.	7.8	301
61	VORTEX LATTICE IMAGING AND SPECTROSCOPIC STUDIES OF FLUX LINES BY SCANNING TUNNELING MICROSCOPY. Series on Directions in Condensed Matter Physics, 1998, , 226-244.	0.1	3
62	Critical currents approaching the depairing limit at a twin boundary in $\text{YBa}_2\text{Cu}_3\text{O}_7$. Nature, 1997, 390, 487-490.	27.8	67
63	Tunneling spectroscopy and STS observation of vortices on high temperature superconductors. Physica C: Superconductivity and Its Applications, 1997, 282-287, 315-318.	1.2	6
64	Oxygen doping and temperature dependence of the tunneling spectroscopy on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$?. Journal of Low Temperature Physics, 1996, 105, 1083-1089.	1.4	40
65	Scanning tunneling spectroscopy studies on $\text{YBa}_2\text{Cu}_3\text{O}_7$?. Journal of Low Temperature Physics, 1996, 105, 1129-1134.	1.4	13
66	Vacuum tunneling spectroscopy and asymmetric density of states of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Physical Review B, 1995, 51, 9208-9218.	3.2	281
67	Direct Vortex Lattice Imaging and Tunneling Spectroscopy of Flux Lines on $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review Letters, 1995, 75, 2754-2757.	7.8	538
68	Spatially resolved vacuum tunneling spectroscopy on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ by STM at 4.8K. Physica B: Condensed Matter, 1994, 194-196, 1689-1690.	2.7	17
69	Gap distribution of the tunneling spectra in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ and some other superconductors. Physica C: Superconductivity and Its Applications, 1994, 220, 55-60.	1.2	36
70	Non BCS IV characteristics of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 53-56.	1.2	10
71	Vacuum tunneling spectroscopy of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ using scanning tunneling microscopy. , 1994, 2158, 135.		2
72	Scanning tunneling spectroscopy of the Abrikosov flux lattice from the clean toward the dirty limit. Ultramicroscopy, 1992, 42-44, 699-704.	1.9	3

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73	Studies of the surface structure of YBa ₂ Cu ₃ O ₇ thin films using STM. Ultramicroscopy, 1992, 42-44, 728-733.	1.9	9
74	A low-temperature scanning tunneling microscope with in-situ sample cleaving. Ultramicroscopy, 1992, 42-44, 1632-1637.	1.9	15
75	Scanning tunneling spectroscopy of a vortex core from the clean to the dirty limit. Physical Review Letters, 1991, 67, 1650-1652.	7.8	143
76	A vertical piezoelectric inertial slider. Review of Scientific Instruments, 1990, 61, 965-967.	1.3	123
77	Properties of homogeneous Y _{1-x} Pr _x Ba ₂ Cu ₃ O ₇ alloy thin films prepared using layer by layer growth. Physica B: Condensed Matter, 1990, 165-166, 1503-1504.	2.7	3
78	Scanning tunneling potentiometry studies of Y _{1-x} Ba ₂ Cu ₃ O ₇ and gold thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 459-463.	2.1	16
79	A versatile low-temperature scanning tunneling microscope. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 330-332.	2.1	45
80	Study of field-emitting microstructures using a scanning tunneling microscope. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 594-597.	2.1	17
81	Enhanced field emission investigation of aluminum. IEEE Transactions on Electrical Insulation, 1989, 24, 911-916.	0.8	10
82	Direct measurements of the local electron transport properties in YBaCuO superconducting thin films. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1035-1036.	1.2	2