

Christoph Renner

List of Publications by Year in descending order

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82
papers

5,611
citations

136950

32
h-index

74163

75
g-index

83
all docs

83
docs citations

83
times ranked

5021
citing authors

#	ARTICLE	IF	CITATIONS
19	Dimensional crossover of the charge density wave transition in thin exfoliated VSe 2. 2D Materials, 2017, 4, 041005.	4.4	57
20	Charge density waves in the graphene sheets of the superconductor CaC6. Nature Communications, 2011, 2, 558.	12.8	56
21	Stripe and Short Range Order in the Charge Density Wave of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review Letters, 2017, 118, 017002.	7.8	49
22	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
23	Imaging oxygen defects and their motion at a manganite surface. Nature Communications, 2011, 2, 212.	12.8	44
24	A ^3He refrigerated scanning tunneling microscope in high magnetic fields and ultrahigh vacuum. Review of Scientific Instruments, 2000, 71, 1475-1478.	1.3	43
25	Linear and Field-Independent Relation between Vortex Core State Energy and Gap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review Letters, 2001, 87, 267001.	7.8	42
26	Hole Transport in Exfoliated Monolayer MoS_2 . ACS Nano, 2018, 12, 2669-2676.	14.6	41
27	Oxygen doping and temperature dependence of the tunneling spectroscopy on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Journal of Low Temperature Physics, 1996, 105, 1083-1089.	1.4	40
28	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
29	Scanning tunneling microscopy of the charge density wave in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ in the presence of single atom defects. Physical Review B, 2015, 92, .	7.8	36
30	Giant Room-Temperature Piezoresistance in a Metal-Silicon Hybrid Structure. Physical Review Letters, 2008, 100, 145501.	7.8	35
31	Skyrmion-(Anti)Vortex Coupling in a Chiral Magnet-Superconductor Heterostructure. Physical Review Letters, 2021, 126, 117205.	7.8	35
32	Quantitative Analysis of Scanning Tunneling Microscopy Images of Mixed-Ligand-Functionalized Nanoparticles. Langmuir, 2013, 29, 13723-13734.	3.5	32
33	Observation of Caroli-de Gennes-Matricorn Vortex States in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review Letters, 2017, 118, 017001.	7.8	32
34	Piezoelectric response of epitaxial $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ films measured by scanning tunneling microscopy. Applied Physics Letters, 2000, 77, 1701-1703.	3.3	31
35	Shape and motion of vortex cores in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2000, 62, 9179-9185.	3.2	31
36	Low-energy structures in vortex core tunneling spectra in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physica C: Superconductivity and Its Applications, 2000, 332, 440-444.	1.2	28

#	ARTICLE	IF	CITATIONS
55	Non BCS IV characteristics of superconducting Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ single crystals. Physica C: Superconductivity and Its Applications, 1994, 235-240, 53-56.	1.2	10
56	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
57	Structure of Self-Assembled Mn Atom Chains on Si(001). Physical Review Letters, 2015, 115, 256104.	7.8	9
58	Scanning Tunneling Microscopy of an Air Sensitive Dichalcogenide Through an Encapsulating Layer. Nano Letters, 2018, 18, 6696-6702.	9.1	9
59	Manganese silicide nanowires on Si(001). Journal of Physics Condensed Matter, 2011, 23, 172001.	1.8	8
60	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
61	Rastertunnelspektroskopie auf Hochtemperatur-Supraleitern: Ortsaufgelöste Tunnelspektroskopie und Abbildung des Flußwirbelgitters. Physik Journal, 1998, 54, 427-430.	0.1	5
62	Note: Mechanical <i>in situ</i> exfoliation of van der Waals materials. Review of Scientific Instruments, 2017, 88, 076104.	1.3	4
63	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
64	Scanning tunneling spectroscopy of the Abrikosov flux lattice from the clean toward the dirty limit. Ultramicroscopy, 1992, 42-44, 699-704.	1.9	3
65	A ³ He cooled scanning tunneling microscope in UHV and high fields. Physica B: Condensed Matter, 2000, 280, 551-552.	2.7	3
66	Hands-on inspiration for science. Nature Materials, 2009, 8, 245-247.	27.5	3
67	Wang-MacDonald <i>d</i> -Wave Vortex Cores Observed in Heavily Overdoped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . Physical Review X, 2021, 11, .	8.9	3
68	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
69	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
70	Vacuum tunneling spectroscopy of superconducting Bi ₂ Sr ₂ CaCu ₂ O ₈ using scanning tunneling microscopy. , 1994, 2158, 135.		2
71	Renner et al. Reply.. Physical Review Letters, 1999, 82, 3726-3726.	7.8	2
72	Imaging of Polarons in Ferromagnetic Bilayered Manganites by Scanning Tunneling Microscopy. Journal of Superconductivity and Novel Magnetism, 2007, 20, 531-533.	1.8	2

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73	Half-filled orbital and unconventional geometry of a common dopant in Si(001). Physical Review B, 2013, 88, .	3.2	2
74	Subatomic electronic feature from dynamic motion of Si dimer defects in Bi nanolines on Si(001). Physical Review B, 2017, 96, .	3.2	2
75	Electronic coupling between Bi nanolines and the Si(001) substrate: An experimental and theoretical study. Physical Review B, 2017, 96, .	3.2	2
76	Towards surface diffusion potential mapping on atomic length scale. Journal of Applied Physics, 2019, 125, 184301.	2.5	2
77	Ultracompact Binary Permanent Rare-Earth Magnet with 1.25-T Center Field and Fast-Decaying Stray Field. Physical Review Applied, 2021, 16, .	3.8	2
78	Will nanotechnology change IT paradigms?. BT Technology Journal, 2006, 24, 163-169.	0.5	1
79	Crystal-clear "The '2014 Most Superlative Crystal Growth Contest' for School Classes. Chimia, 2014, 68, 893.	0.6	1
80	Scanning Tunneling Spectroscopy on High Temperature Superconductors. , 2002, , 487-502.		0
81	One-dimensional silicon nanolines in the Si(001):H surface. , 2013, , .		0
82	Scanning Tunneling Microscopy and Spectroscopy of Manganites. , 2007, , 534-558.		0