

# H Hilgenkamp Or Jwm Hilgenkamp Or

## List of Publications by Year in descending order

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162  
papers

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61857

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168  
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168  
docs citations

168  
times ranked

6427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic effects at the interface between non-magnetic oxides. Nature Materials, 2007, 6, 493-496.	13.3	1,489
2	Grain boundaries in high-T <sub>c</sub> superconductors. Reviews of Modern Physics, 2002, 74, 485-549.	16.4	787
3	Electronic phase separation at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Nature Communications, 2011, 2, 188.	5.8	366
4	Electronically coupled complementary interfaces between perovskite band insulators. Nature Materials, 2006, 5, 556-560.	13.3	325
5	Structure-Property Relation of SrTiO <sub>3</sub> /LaAlO <sub>3</sub> Interfaces. Advanced Materials, 2009, 21, 1665-1677.	11.1	292
6	Josephson supercurrent through a topological insulator surface state. Nature Materials, 2012, 11, 417-421.	13.3	275
7	Implications of d <sub>x<sup>2</sup>-y<sup>2</sup></sub> symmetry and faceting for the transport properties of grain boundaries in high-T <sub>c</sub> superconductors. Physical Review B, 1996, 53, 14586-14593.	1.1	255
8	Enhanced supercurrent density in polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> at 77 K from calcium doping of grain boundaries. Nature, 2000, 407, 162-164.	13.7	255
9	Ordering and manipulation of the magnetic moments in large-scale superconducting $\pi$ -loop arrays. Nature, 2003, 422, 50-53.	13.7	223
10	Generation of Magnetic Flux by Single Grain Boundaries of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review Letters, 1996, 77, 2782-2785.	2.9	174
11	Doping-induced enhancement of the critical currents of grain boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Europhysics Letters, 1999, 47, 110-115.	0.7	160
12	Imaging and control of ferromagnetism in LaMnO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Science, 2015, 349, 716-719.	6.0	153
13	Superconducting and normal-state properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> -bicrystal grain boundary junctions in thin films. Applied Physics Letters, 1998, 73, 265-267.	1.5	151
14	NanoSQUIDS Based on Niobium Constrictions. Nano Letters, 2007, 7, 2152-2156.	4.5	140
15	Angle-resolved phase-sensitive determination of the in-plane gap symmetry in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Nature Physics, 2006, 2, 190-194.	6.5	126
16	Why NanoSQUIDS are important: an introduction to the focus issue. Superconductor Science and Technology, 2009, 22, 064001.	1.8	122
17	Design and realization of an all d-wave dc $\pi$ -superconducting quantum interference device. Applied Physics Letters, 2000, 76, 912-914.	1.5	118
18	d-Wave-Induced Josephson Current Counterflow in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /Nb Zigzag Junctions. Physical Review Letters, 2002, 88, 057004.	2.9	118

#	ARTICLE	IF	CITATIONS
19	Superconducting MgB films by pulsed-laser deposition in an in situ two-step process using multicomponent targets. Applied Physics Letters, 2001, 79, 394-396.	1.5	108
20	Flip-Flopping Fractional Flux Quanta. Science, 2006, 312, 1495-1497.	6.0	108
21	Parallel Electron-Hole Bilayer Conductivity from Electronic Interface Reconstruction. Physical Review Letters, 2010, 104, 166804.	2.9	102
22	Anisotropic two-dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (110) interface. Nature Communications, 2013, 4, 1838.	5.8	96
23	Superconducting quantum interference device based on MgB <sub>2</sub> nanobridges. Applied Physics Letters, 2001, 79, 2420-2422.	1.5	90
24	Admixtures tod-Wave Gap Symmetry in Untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Superconducting Films Measured by Angle-Resolved Electron Tunneling. Physical Review Letters, 2005, 95, 257001.	2.9	89
25	Defect Engineering in Oxide Heterostructures by Enhanced Oxygen Surface Exchange. Advanced Functional Materials, 2013, 23, 5240-5248.	7.8	88
26	Nonsinusoidal Current-Phase Relationship of Grain Boundary Josephson Junctions in High-Tc Superconductors. Physical Review Letters, 1998, 81, 894-897.	2.9	79
27	Possible influence of band bending on the normal state properties of grain boundaries in high-Tc superconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 77-85.	1.7	73
28	Electrically Excited, Localized Infrared Emission from Single Carbon Nanotubes. Nano Letters, 2006, 6, 1425-1433.	4.5	64
29	Hard x-ray photoemission and density functional theory study of the internal electric field in SrTiO <sub>3</sub> /LaAlO <sub>3</sub> oxide heterostructures. Physical Review B, 2013, 87, .	1.1	64
30	Superconducting thin films of MgB <sub>2</sub> on Si by pulsed laser deposition. Physica C: Superconductivity and Its Applications, 2001, 353, 1-4.	0.6	63
31	Vortex trapping and expulsion in thin-film YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . Physical Review B, 2008, 77, .	2.1	60
32	Experimental realization of superconducting quantum interference devices with topological insulator junctions. Applied Physics Letters, 2012, 100, .	1.5	60
33	Observation of Splintered Josephson Vortices at Grain Boundaries in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . Physical Review Letters, 2002, 89, 067004.	2.9	59
34	SCENET roadmap for superconductor digital electronics. Physica C: Superconductivity and Its Applications, 2006, 439, 1-41.	0.6	58
35	Gate-Tunable Band Structure of the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. Physical Review Letters, 2017, 118, 106401.	2.9	56
36	Wavefunction symmetry and its influence on superconducting devices. Superconductor Science and Technology, 1997, 10, 880-883.	1.8	55

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37	Magnesium-diboride ramp-type Josephson junctions. Applied Physics Letters, 2002, 80, 2141-2143.	1.5	52
38	Phase-Sensitive Order Parameter Symmetry Test Experiments Utilizing $\text{Nd}_2\text{x}\text{Ce}_x\text{CuO}_4/\text{Nb}$ Zigzag Junctions. Physical Review Letters, 2005, 94, 167001.	2.9	51
39	Polar-discontinuity-retaining A-site intermixing and vacancies at $\text{SrTiO}_3/\text{LaAlO}_3$ interfaces. Physical Review B, 2012, 85, .	1.1	50
40	Quantum oscillations and subband properties of the two-dimensional electron gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. APL Materials, 2014, 2, .	2.2	50
41	Magnetotransport and induced superconductivity in Bi based three-dimensional topological insulators. Physica Status Solidi - Rapid Research Letters, 2013, 7, 26-38.	1.2	49
42	Modulation of conductance and superconductivity by top-gating in $\text{LaAlO}_3/\text{SrTiO}_3$ 2-dimensional electron systems. Applied Physics Letters, 2013, 103, 201603.	1.5	44
43	Spectroscopic evidence of in-gap states at the $\text{SrTiO}_3/\text{LaAlO}_3$ ultrathin interfaces. Applied Physics Letters, 2011, 98, .	1.5	43
44	Enhanced transparency ramp-type Josephson contacts through interlayer deposition. Applied Physics Letters, 2002, 80, 4579-4581.	1.5	41
45	Probing of $\text{LaAlO}_3/\text{SrTiO}_3$ interface states probed by x-ray photoemission on $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Applied Physics Letters, 2013, 103, 201603.	1.1	41
46	Critical behavior at a dynamic vortex insulator-to-metal transition. Science, 2015, 349, 1202-1205.	6.0	40
47	Ferromagnetism and Conductivity in Atomically Thin $\text{SrRuO}_3$ . Physical Review X, 2019, 9, .	2.8	40
48	Temperature dependence measurements of the supercurrent-phase relationship in niobium nanobridges. Physical Review B, 2008, 77, .	1.1	39
49	Pi-phase shift Josephson structures. Superconductor Science and Technology, 2008, 21, 034011.	1.8	38
50	Anomalous dependence of the critical current of $45^\circ$ grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ on an applied magnetic field. Zeitschrift für Physik B-Condensed Matter, 1996, 101, 175-179.	1.1	37
51	Antiferromagnetic ordering in arrays of superconducting rings. Physical Review B, 2005, 72, .	1.1	37
52	Magnetization-induced resistance-switching effects in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ bi- and trilayers. Physical Review B, 2009, 79, .	1.1	35
53	Electron Trapping Mechanism in $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. Physical Review Letters, 2020, 124, 017702.	1.9	35
54	Interfaces involving complex superconductors. Physica C: Superconductivity and Its Applications, 1999, 317-318, 383-391.	0.6	33

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55	SQUID magnetometer operating at 37 K based on nanobridges in epitaxial MgB2 thin films. Applied Physics Letters, 2005, 87, 192505.	1.5	33
56	Tailoring of high-Tc Josephson junctions by doping their electrodes. Applied Physics Letters, 1999, 75, 850-852.	1.5	32
57	Electronic reconstruction at $n$ $\text{SrTiO}_3$ thin films. Physical Review B, 2010, 81, .	1.1	32
58	Cationic-vacancy-induced room-temperature ferromagnetism in transparent, conducting anatase $\text{Ti}_{1-x}\text{Ta}_x\text{O}_2$ ( $x \approx 1/40.05$ ) thin films. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4927-4943.	1.6	31
59	Electric field controllable Josephson junctions of high quality in high-Tc superconductors. Applied Physics Letters, 1996, 68, 3031-3033.	1.5	30
60	Monocrystalline $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films on vicinal $\text{SrTiO}_3$ (001) substrates. Applied Physics Letters, 2003, 83, 5199-5201.	1.5	30
61	Optically excited multi-band conduction in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures. Applied Physics Letters, 2013, 102, .	1.5	30
62	Noise properties of direct current SQUIDs with quasipolar $\text{YBa}_2\text{Cu}_3\text{O}_7$ Josephson junctions. Applied Physics Letters, 1995, 67, 2087-2089.	1.5	29
63	Static semifluxons in a long Josephson junction with $\pi$ -discontinuity points. Physical Review B, 2003, 68, .	1.1	29
64	Analysis of low-field isotropic vortex glass containing vortex groups in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films visualized by scanning SQUID microscopy. Scientific Reports, 2015, 5, 8677.	1.6	29
65	Resistive switching studies in $\text{VO}_2$ thin films. Scientific Reports, 2020, 10, 3293.	1.6	29
66	RSFQ Circuitry Using Intrinsic $\pi$ -Phase Shifts. IEEE Transactions on Applied Superconductivity, 2007, 17, 659-663.	1.1	28
67	Thin films of the spin ice compound $\text{Ho}_2\text{Ti}_2\text{O}_7$ . APL Materials, 2014, 2, .	2.2	28
68	Upper bound on the Andreev states induced second harmonic in the Josephson coupling of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{Nb}$ junctions from experiment and numerical simulations. Physical Review B, 2008, 77, .	1.1	27
69	Dynamics of single vortices in grain boundaries: I-V characteristics on the femtovolt scale. Applied Physics Letters, 2009, 94, .	1.5	25
70	Sigma-delta A/D converter in HTS ramp edge technology. IEEE Transactions on Applied Superconductivity, 2001, 11, 200-204.	1.1	24
71	$\pi$ -SQUIDs based on Josephson contacts between high-Tc and low-Tc superconductors. Physical Review B, 2004, 70, .	1.1	24
72	Modifying electronic properties of interfaces in high-Tc superconductors by doping. Physica C: Superconductivity and Its Applications, 1999, 326-327, 7-11.	0.6	23

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73	d-Wave Induced Zero-Field Resonances in $d_{x^2-y^2}$ -Superconducting Quantum Interference Devices. Physical Review Letters, 2002, 88, 177003.	2.9	23
74	Epitaxial EuO thin films by pulsed laser deposition monitored by in situ x-ray photoelectron spectroscopy. Thin Solid Films, 2010, 518, 5173-5176.	0.8	22
75	Interface resistance of $d_{x^2-y^2}$ - $s$ -wave hybrid junctions. Physical Review B, 2010, 82, .		
76	Analysing magnetism using scanning SQUID microscopy. Review of Scientific Instruments, 2017, 88, 123706.	0.6	22
77	Observation of Andreev bound states in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ - $\text{Au}$ - $\text{Nb}$ -ramp-type Josephson junctions. Physical Review B, 2006, 73, .	1.1	21
78	Thermally excited multiband conduction in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures exhibiting magnetic scattering. Physical Review B, 2013, 88, .	1.1	20
79	Mechanisms controlling interface-properties in high- $T_c$ superconductors. IEEE Transactions on Applied Superconductivity, 1999, 9, 3405-3408.	1.1	19
80	Josephson supercurrent in a topological insulator without a bulk shunt. Superconductor Science and Technology, 2014, 27, 104001.	1.8	19
81	Exciton condensation in strongly correlated electron bilayers. Physical Review B, 2013, 88, .	1.1	18
82	$\text{YBa}_2/\text{Cu}_3/\text{O}_7$ nano-bridge junctions and dc SQUIDs made by focused ion beam milling. IEEE Transactions on Applied Superconductivity, 1995, 5, 2786-2789.	1.1	17
83	Intrinsic weak link originating from tilt in contacts between $d_{x^2-y^2}$ wave superconductors. Applied Physics A: Materials Science and Processing, 1997, 64, 553-554.	1.1	17
84	Optimizing the Majorana character of SQUIDs with topologically nontrivial barriers. Physical Review B, 2012, 86, .	1.1	17
85	Determining Individual Particle Magnetizations in Assemblages of Micrograins. Geophysical Research Letters, 2018, 45, 2995-3000.	1.5	17
86	The road to magnesium diboride thin films, Josephson junctions and SQUIDs. Superconductor Science and Technology, 2003, 16, 246-253.	1.8	16
87	Macroscopic quantum tunneling and quasiparticle-tunneling blockade effect in $d_{x^2-y^2}$ - $s$ -wave hybrid junctions. Physical Review B, 2007, 76, .	1.1	16
88	Imaging of Order Parameter Induced Phase Shifts in Cuprate Superconductors by Low-Temperature Scanning Electron Microscopy. Physical Review Letters, 2009, 103, 067011.	2.9	15
89	Spin polarization of Fe-rich ferromagnetic compounds in $\text{Ru}_2\text{Fe}$ CrSi Heusler alloys. Journal of Physics and Chemistry of Solids, 2011, 72, 604-607.	1.9	15
90	Multi-level operation in $\text{VO}_2$ -based resistive switching devices. AIP Advances, 2022, 12, .	0.6	15

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91	Influence of $d(x^2/y^2)$ symmetry on device applications of high- $T_c$ grain boundary junctions. IEEE Transactions on Applied Superconductivity, 1997, 7, 3670-3673. Interplay between Static and Dynamic Properties of Semifluxons in xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" <math>YBa_2CuO_7</math> mathvariant="bold" O <math>I</math> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" <math>0</math> mathvaria. Physical Review Letters, 2010, 104, 177003.	1.1	14
92	Correlation between superconductivity, band filling, and electron confinement at the xmlns:mml="http://www.w3.org/1998/Math/MathML" <math>LaAlO_3</math> interface. Physical Review B, 2018, 97, .		
93	Grain boundaries in high- $T_c$ superconductors: insights and improvements. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 827-834.	0.6	13
94	The dynamical frustration of interlayer excitons delocalizing in bilayer quantum antiferromagnets. Europhysics Letters, 2012, 97, 27004.	0.7	13
95	Local probing of coupled interfaces between two-dimensional electron and hole gases in oxide heterostructures by variable-temperature scanning tunneling spectroscopy. Physical Review B, 2012, 86, .	1.1	13
96	Doping-induced enhancement of grain boundary critical currents. IEEE Transactions on Applied Superconductivity, 2001, 11, 2830-2837.	1.1	12
97	Bistable superconducting quantum interference device with built-in switchable $\pi$ phase shift. Applied Physics Letters, 2004, 85, 4091-4093.	1.5	12
98	Capacitance measurements on grain boundaries in $Y_{1-x}Ca_xBa_2Cu_3O_{7-\delta}$ . Physical Review B, 2004, 70, .	1.1	12
99	High- $T_c$ superconducting thin films with composition control on a sub-unit cell level; the effect of the polar nature of the cuprates. Journal of Physics Condensed Matter, 2008, 20, 264007.	0.7	12
100	Structure and magnetic properties of epitaxial $CaFe_2O_4$ thin films. Npj Quantum Materials, 2020, 5, .	1.8	12
101	Doping induced enhancement of the critical currents of grain boundaries in high- $T_c$ superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1393-1396.	0.6	11
102	Y-Ba-Cu-O/Au/Nb ramp-type Josephson junctions. IEEE Transactions on Applied Superconductivity, 2001, 11, 501-504.	1.1	11
103	Electron-hole coupling in high- $T_c$ cuprate superconductors. Physica C: Superconductivity and Its Applications, 2005, 422, 71-75.	0.6	11
104	Scaling universality at the dynamic vortex Mott transition. Physical Review B, 2018, 97, .	1.1	11
105	Grain boundary critical currents - a new perspective. Superconductor Science and Technology, 1999, 12, 1043-1045.	1.8	10
106	Realization and properties of ramp-type $YBa_2Cu_3O_{7-\delta}/Au/Nb$ junctions. Physica C: Superconductivity and Its Applications, 2001, 350, 269-275.	0.6	10
107	Growth studies of $Ba_{1-x}(K_x)BiO_3$ thin films by pulsed-laser deposition. Physica C: Superconductivity and Its Applications, 2002, 372-376, 596-599.	0.6	10



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109	Enhancement of spin propagation due to interlayer exciton condensation. Physical Review B, 2013, 88, .	1.1	9
110	Novel transport phenomena at complex oxide interfaces. MRS Bulletin, 2013, 38, 1026-1031.	1.7	9
111	Superconducting thin films of MgB <sub>2</sub> by pulsed-laser deposition. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1258-1261.	0.6	8
112	Pulsed-laser deposition of MgB <sub>2</sub> and B thin films. Applied Physics A: Materials Science and Processing, 2004, 79, 1243-1246.	1.1	8
113	Nonlocal spin-entangled Andreev reflection, fractional charge, and current-phase relations in topological bilayer-exciton-condensate junctions. Physical Review B, 2014, 90, .	1.1	8
114	Transport and thermoelectric properties of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2015, 91, .		
115	Acoustoelectric charge transport at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Applied Physics Letters, 2020, 116, .	1.5	8
116	Fabrication of multiband MgB <sub>2</sub> tunnel junctions for transport measurements. Superconductor Science and Technology, 2006, 19, S226-S230.	1.8	7
117	Prediction of quantization of magnetic flux in double-layer exciton superfluids. Physical Review B, 2011, 83, .	1.1	7
118	Thermal-strain-engineered ferromagnetism of $\text{LaMnO}_3/\text{SrTiO}_3$ heterostructures grown on silicon. Physical Review Materials, 2020, 4, .		
119	Scanning SQUID microscope tests of the symmetry of the high-T <sub>c</sub> gap. European Physical Journal D, 1996, 46, 3169-3176.	0.4	6
120	Empowering Young Scientists. Science, 2010, 328, 17-17.	6.0	6
121	Effect of high oxygen pressure annealing on superconducting $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ thin films by pulsed laser deposition from Cu-enriched targets. Superconductor Science and Technology, 2014, 27, 044017.	1.8	6
122	Josephson Memories. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1621-1625.	0.8	6
123	Gate-tuned anomalous Hall effect driven by Rashba splitting in intermixed $\text{LaAlO}_3/\text{GdTiO}_3/\text{SrTiO}_3$ . Scientific Reports, 2021, 11, 10726.	1.6	6
124	Strain accommodation through facet matching in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4/\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ ramp-edge junctions. APL Materials, 2015, 3, 086101.	2.2	5
125	Characterization of single step electrodeposited $\text{Cu}_2\text{ZnSnS}_4$ thin films. Journal of Optics (India), 2018, 47, 256-262.	0.8	5
126	Annealed Low Energy States in Frustrated Large Square Josephson Junction Arrays. Condensed Matter, 2018, 3, 19.	0.8	5



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127	Realization of High-Tc dc $\tilde{\mu}$ -SQUIDS. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1651-1654.	0.6	4
128	Multi-band conduction behaviour at the interface of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Journal of the Korean Physical Society, 2013, 63, 437-440.	0.3	4
129	MoRe/YBCO Josephson junctions and $\tilde{\mu}$ -loops. Superconductor Science and Technology, 2020, 33, 044005.	1.8	4
130	Interfaces in high-Tc superconductors: fundamental insights and possible applications. Current Applied Physics, 2001, 1, 349-353.	1.1	3
131	MgB <sub>2</sub> /thin films and Josephson devices. IEEE Transactions on Applied Superconductivity, 2003, 13, 3245-3248.	1.1	3
132	Controlling Josephson dynamics by strong microwave fields. Physical Review B, 2008, 78, .	1.1	3
133	Conductance anisotropy and linear magnetoresistance in La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> thin films. Journal of Physics Condensed Matter, 2011, 23, 205602.	0.7	3
134	$\tilde{\mu}$ -Loops With ds Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	3
135	Quantum oscillations in an optically-illuminated two-dimensional electron system at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. Journal of Physics Condensed Matter, 2021, 33, 465002.	0.7	3
136	Mapping unit-cell thickness variations in thin films by post-deposition reflection high-energy electron diffraction. Physical Review Materials, 2020, 4, .	0.9	3
137	Symmetry of the order parameter: Implications of the Transport Properties of grain boundaries. Physica C: Superconductivity and Its Applications, 1997, 282-287, 132-135.	0.6	2
138	PHYSICS: Enhanced: Flux Quanta on the Move. Science, 2003, 302, 1159-1160.	6.0	2
139	Josephson coupling in untwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /Nb d-wave junctions. Journal of Physics: Conference Series, 2008, 97, 012095.	0.3	2
140	Manipulating Electronic States at Oxide Interfaces Using Focused Micro X-Rays from Standard Lab Sources. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1267-1272.	0.8	2
141	A Novel Particle/Photon Detector Based on a Superconducting Proximity Array of Nanodots. Journal of Superconductivity and Novel Magnetism, 2017, 30, 359-363.	0.8	2
142	On the nature of ionic liquid gating of Nd <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4</sub> thin films. Low Temperature Physics, 2017, 43, 290-295.	0.2	2
143	On the Formation of a Conducting Surface Channel by Ionic Liquid Gating of an Insulator. Annalen Der Physik, 2018, 530, 1700449.	0.9	2
144	Grain boundaries in high-Tc superconductors: insights and improvements. , 0, .		2

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145	Fabrication and transport properties of three-terminal Josephson junctions employing high-T <sub>c</sub> superconductors. , 1996, , .		1
146	Theory of macroscopic quantum tunneling in Nb/Au/YBCO Josephson junctions. Physica C: Superconductivity and Its Applications, 2007, 463-465, 80-83.	0.6	1
147	Responseâ€™The Time of Young Scientists. Science, 2010, 329, 626-627.	6.0	1
148	Direct Measurements of Field-Dependent Ordering in a Low-Field Vortex Glass State. IEEE Transactions on Applied Superconductivity, 2016, , 1-1.	1.1	1
149	New voices, at last. Science, 2018, 361, 953-953.	6.0	1
150	ON the Nature of Ionic Liquid Gating of La <sub>2</sub> xSr <sub>x</sub> CuO <sub>4</sub> . International Journal of Molecular Sciences, 2018, 19, 566.	1.8	1
151	Grain Boundaries and Other Interfaces in Cuprate High-T <sub>c</sub> Superconductors. , 2001, , 519-528.		1
152	Factors Controlling Transport Properties of Interfaces in High-T <sub>c</sub> Superconductors. Materials Research Society Symposia Proceedings, 1999, 574, 261.	0.1	0
153	Publisherâ€™s Note: Phase-Sensitive Order Parameter Symmetry Test Experiments UtilizingNd <sub>2</sub> xCe <sub>x</sub> CuO <sub>4</sub> y/NbZigzag Junctions [Phys. Rev. Lett.94, 167001 (2005)]. Physical Review Letters, 2005, 94, .	2.9	0
154	Tuning the current-voltage characteristics of Josephson junctions by strong microwave fields. Journal of Physics: Conference Series, 2009, 150, 052034.	0.3	0
155	Current-Phase Relation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /Nb Unconventional Superconductor Junctions. Materials Science Forum, 0, 670, 38-41.	0.3	0
156	Properties of single RuO <sub>2</sub> layer embedded in SrTiO <sub>3</sub> . , 2015, , .		0
157	Ramp-edge junctions between superconducting Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> and La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> . Superconductor Science and Technology, 2016, 29, 035001.	1.8	0
158	Suppressing superconductivity by adding it. Nature Materials, 2019, 18, 913-914.	13.3	0
159	Experiments with d-wave Superconductors. , 2003, , .		0
160	Implications of a $d_{x^2-y^2}$ Symmetry Component of the Superconducting Order Parameter on High-T <sub>c</sub> Josephson Devices. , 1997, , 1129-1134.		0
161	The Influence of Grain Boundary Roughness on Tricrystal Symmetry Tests. , 1999, , 337-346.		0
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