

Jochen D Mannhart

List of Publications by Year in descending order

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270
papers

24,933
citations

12303

69
h-index

6818

155
g-index

280
all docs

280
docs citations

280
times ranked

12521
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting Interfaces Between Insulating Oxides. <i>Science</i> , 2007, 317, 1196-1199.	6.0	2,374
2	Tunable Quasi-Two-Dimensional Electron Gases in Oxide Heterostructures. <i>Science</i> , 2006, 313, 1942-1945.	6.0	1,423
3	Orientation Dependence of Grain-Boundary Critical Currents in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Bicrystals. <i>Physical Review Letters</i> , 1988, 61, 219-222.	2.9	1,346
4	Superconducting transport properties of grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_7$ bicrystals. <i>Physical Review B</i> , 1990, 41, 4038-4049.	1.1	1,260
5	Oxide Interfaces – An Opportunity for Electronics. <i>Science</i> , 2010, 327, 1607-1611.	6.0	1,186
6	Electric field control of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface ground state. <i>Nature</i> , 2008, 456, 624-627.	13.7	1,068
7	Grain boundaries in high- T_c superconductors. <i>Reviews of Modern Physics</i> , 2002, 74, 485-549.	16.4	787
8	Coexistence of magnetic order and two-dimensional superconductivity at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. <i>Nature Physics</i> , 2011, 7, 762-766.	6.5	744
9	Electric field effect in correlated oxide systems. <i>Nature</i> , 2003, 424, 1015-1018.	13.7	629
10	Nanoscale control of an interfacial metal-insulator transition at room temperature. <i>Nature Materials</i> , 2008, 7, 298-302.	13.3	525
11	Direct measurement of the superconducting properties of single grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review Letters</i> , 1988, 60, 1653-1656.	2.9	486
12	Electrostatic modification of novel materials. <i>Reviews of Modern Physics</i> , 2006, 78, 1185-1212.	16.4	465
13	Oxide Nanoelectronics on Demand. <i>Science</i> , 2009, 323, 1026-1030.	6.0	432
14	Screw dislocations in high- T_c films. <i>Nature</i> , 1991, 350, 279-280.	13.7	408
15	Critical Currents in [001] Grains and across Their Tilt Boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films. <i>Physical Review Letters</i> , 1988, 61, 2476-2479.	2.9	394
16	Subatomic Features on the Silicon (111)-(7x7) Surface Observed by Atomic Force Microscopy. <i>Science</i> , 2000, 289, 422-425.	6.0	383
17	Orbital Reconstruction and the Two-Dimensional Electron Gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. <i>Physical Review Letters</i> , 2009, 102, 166804.	2.9	274
18	Profiling the Interface Electron Gas of $\text{LaAlO}_3/\text{SrTiO}_3$ with Hard X-Ray Photoelectron Spectroscopy. <i>Physical Review Letters</i> , 2009, 102, 176805.	2.9	260

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19	Implications of $d_{x^2-y^2}$ symmetry and faceting for the transport properties of grain boundaries in high-Tc superconductors. <i>Physical Review B</i> , 1996, 53, 14586-14593.	1.1	255
20	Enhanced supercurrent density in polycrystalline $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ at 77 K from calcium doping of grain boundaries. <i>Nature</i> , 2000, 407, 162-164.	13.7	255
21	Epitaxial integration of the highly spin-polarized ferromagnetic semiconductor EuO with silicon and GaN. <i>Nature Materials</i> , 2007, 6, 882-887.	13.3	247
22	Two-Dimensional Electron Gases at Oxide Interfaces. <i>MRS Bulletin</i> , 2008, 33, 1027-1034.	1.7	238
23	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019, 482, 1-93.	3.1	236
24	Interface superconductor with gap behaviour like a high-temperature superconductor. <i>Nature</i> , 2013, 502, 528-531.	13.7	209
25	Synthesis of perovskite-related layered AnBnO_{3n+2} = ABOX type niobates and titanates and study of their structural, electric and magnetic properties. <i>Progress in Solid State Chemistry</i> , 2001, 29, 1-70.	3.9	206
26	LaAlO_3 stoichiometry is key to electron liquid formation at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. <i>Nature Communications</i> , 2013, 4, 2351.	5.8	198
27	Influence of electric fields on pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. <i>Physical Review Letters</i> , 1991, 67, 2099-2101.	2.9	187
28	Very Large Capacitance Enhancement in a Two-Dimensional Electron System. <i>Science</i> , 2011, 332, 825-828.	6.0	185
29	Calculation of the optimal imaging parameters for frequency modulation atomic force microscopy. <i>Applied Surface Science</i> , 1999, 140, 352-357.	3.1	181
30	Force Microscopy with Light-Atom Probes. <i>Science</i> , 2004, 305, 380-383.	6.0	178
31	Generation of Magnetic Flux by Single Grain Boundaries of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review Letters</i> , 1996, 77, 2782-2785.	2.9	174
32	Locally enhanced conductivity due to the tetragonal domain structure in $\text{LaAlO}_3/\text{SrTiO}_3$ heterointerfaces. <i>Nature Materials</i> , 2013, 12, 1091-1095.	13.3	172
33	Doping-induced enhancement of the critical currents of grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Europhysics Letters</i> , 1999, 47, 110-115.	0.7	160
34	High-transistors. <i>Superconductor Science and Technology</i> , 1996, 9, 49-67.	1.8	154
35	Revealing the hidden atom in graphite by low-temperature atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12539-12542.	3.3	152
36	Superconducting and normal-state properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ -bicrystal grain boundary junctions in thin films. <i>Applied Physics Letters</i> , 1998, 73, 265-267.	1.5	151

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37	Dielectric properties of sputtered SrTiO ₃ films. Physical Review B, 1994, 49, 12095-12104.	1.1	150
38	Electric field effect on superconducting YBa ₂ Cu ₃ O _{7-δ} films. European Physical Journal B, 1991, 83, 307-311.	0.6	145
39	Screw dislocation mediated growth of sputtered and laser-ablated YBa ₂ Cu ₃ O _{7-δ} films. European Physical Journal B, 1992, 86, 163-175.	0.6	144
40	Magnetic and superconducting phases at the LaAlO ₃ /SrTiO ₃ interface: The role of interfacial Ti 3d orbitals. Physical Review Letters, 2013, 110, 247601.	1.1	137
41	Direct imaging of the evolution of the interfacial structure of LaAlO ₃ /SrTiO ₃ heterostructures. Physical Review Letters, 2013, 110, 247601.	2.9	136
42	Space Mapping of the Electronic Structure in an Oxide-Oxide Interface. Physical Review Letters, 2011, 106, 036101.	2.9	132
43	Sr ₂ RuO ₄ : A metallic substrate for the epitaxial growth of YBa ₂ Cu ₃ O _{7-δ} . Applied Physics Letters, 1992, 60, 1138-1140.	1.5	128
44	Evidence of Doping-Dependent Pairing Symmetry in Cuprate Superconductors. Physical Review Letters, 2001, 87, 087003.	2.9	124
45	Oxygen vacancies at titanate interfaces: Two-dimensional magnetism and orbital reconstruction. Physical Review B, 2012, 86, .	1.1	124
46	Design and realization of an all d-wave dc Josephson superconducting quantum interference device. Applied Physics Letters, 2000, 76, 912-914.	1.5	118
47	Polar catastrophe and electronic reconstructions at the LaAlO ₃ /SrTiO ₃ interface. Evidence from optical second harmonic generation. Physical Review B, 2009, 80, .	1.1	116
48	Friction traced to the single atom. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12006-12010.	3.3	111
49	Field-effect devices utilizing LaAlO ₃ -SrTiO ₃ interfaces. Applied Physics Letters, 2012, 100, .	1.5	111
50	Correlation between J _c and screw dislocation density in sputtered YBa ₂ Cu ₃ O _{7-δ} films. European Physical Journal B, 1992, 86, 177-181.	0.6	109
51	Local Spectroscopy and Atomic Imaging of Tunneling Current, Forces, and Dissipation on Graphite. Physical Review Letters, 2005, 94, 056101.	2.9	106
52	Two-dimensional electron liquid state at the LaAlO ₃ /SrTiO ₃ interface. Physical Review B, 2010, 81, .	1.1	101
53	How grain boundaries limit supercurrents in high-temperature superconductors. Nature Physics, 2010, 6, 609-614.	6.5	100
54	Microlithography of electron gases formed at interfaces in oxide heterostructures. Applied Physics Letters, 2006, 89, 122101.	1.5	99

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55	Nernst effect in superconducting Y-Ba-Cu-O. Physical Review Letters, 1990, 64, 3195-3198.	2.9	98
56	Large electric field effects in YBa ₂ Cu ₃ O _{7-δ} films containing weak links. Applied Physics Letters, 1993, 62, 630-632.	1.5	96
57	Dynamical Response and Confinement of the Electrons at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Physical Review Letters, 2010, 104, 156807.	2.9	93
58	Interface takes charge over Si. Nature Materials, 2011, 10, 168-169.	13.3	93
59	Identification of epitaxial Y ₂ O ₃ inclusions in sputtered YBa ₂ Cu ₃ O ₇ films: Impact on film growth. Applied Physics Letters, 1992, 60, 1016-1018.	1.5	90
60	Highly-efficient thermoelectronic conversion of solar energy and heat into electric power. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	90
61	Probing the shape of atoms in real space. Physical Review B, 2003, 68, .	1.1	83
62	CHANGES IN THE SUPERCONDUCTING PROPERTIES OF HIGH-T _c CUPRATES PRODUCED BY APPLIED ELECTRIC FIELDS. Modern Physics Letters B, 1992, 06, 555-571.	1.0	79
63	Nonsinusoidal Current-Phase Relationship of Grain Boundary Josephson Junctions in High-T _c Superconductors. Physical Review Letters, 1998, 81, 894-897.	2.9	79
64	When TTF met TCNQ. Nature Materials, 2008, 7, 520-521.	13.3	77
65	Limits of the critical current density of polycrystalline high-temperature superconductors based on the current transport properties of single grain boundaries. European Physical Journal B, 1989, 77, 53-59.	0.6	75
66	Possible influence of band bending on the normal state properties of grain boundaries in high-T _c superconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 77-85.	1.7	73
67	Robust d _{x²-y²} Pairing Symmetry in Hole-Doped Cuprate Superconductors. Physical Review Letters, 2004, 93, 187004.	2.9	73
68	Stability considerations and implementation of cantilevers allowing dynamic force microscopy with optimal resolution: the qPlus sensor. Nanotechnology, 2004, 15, S79-S86.	1.3	73
69	Calculation of the capacitances of conductors: Perspectives for the optimization of electronic devices. Journal of Applied Physics, 2009, 106, .	1.1	71
70	Spatially Resolved Observation of Supercurrents Across Grain Boundaries in YBaCuO Films. Science, 1989, 245, 839-841.	6.0	68
71	Micropatterning of high T _c films with an excimer laser. Applied Physics Letters, 1988, 52, 1271-1273.	1.5	67
72	Subtleties in ADF imaging and spatially resolved EELS: A case study of low-angle twist boundaries in SrTiO ₃ . Ultramicroscopy, 2006, 106, 1053-1061.	0.8	67

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73	Mechanism of the electric-field effect in the high-Tccuprates. Physical Review B, 1995, 51, 3257-3260.	1.1	60
74	Observation of Splintered Josephson Vortices at Grain Boundaries inYBa2Cu3O7 \hat{a} \sim \hat{f} . Physical Review Letters, 2002, 89, 067004.	2.9	59
75	SCENET roadmap for superconductor digital electronics. Physica C: Superconductivity and Its Applications, 2006, 439, 1-41.	0.6	58
76	The oxidation kinetics of thin nickel films between 250 and 500 \hat{A} \circ C. Physical Chemistry Chemical Physics, 2017, 19, 9045-9052.	1.3	58
77	Surface outgrowths on sputtered YBa2Cu3O7 \hat{a} \sim xfilms: A combined atomic force microscopy and transmission electron microscopy study. Applied Physics Letters, 1993, 63, 553-555.	1.5	56
78	Band alignment in LaAlO \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \rangle \langle mml:mrow /> \langle mml:mn>3</mml:mn> \langle /mml:mrow> \langle /mml:math>/SrTiO \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \rangle \langle mml:mrow /> \langle mml:mn>3</mml:mn> \langle /mml:mrow> \langle /mml:math>oxide heterostructures inferred from hard x-ray photoelectron spectroscopy. Physical Review B, 2013, 88, .	1.1	56
79	Ultrafast optical tuning of ferromagnetism via the carrier density. Nature Communications, 2015, 6, 6724.	5.8	56
80	Wavefunction symmetry and its influence on superconducting devices. Superconductor Science and Technology, 1997, 10, 880-883.	1.8	55
81	Magnetic flux periodicity of h/e in superconducting loops. Nature Physics, 2008, 4, 112-115.	6.5	53
82	Is There an Intrinsic Limit to the Charge-Carrier-Induced Increase of the Curie Temperature of EuO?. Physical Review Letters, 2010, 105, 257206.	2.9	52
83	The value of seeing nothing. Nature, 2004, 430, 620-621.	13.7	51
84	High-Temperature Cuprate Superconductors Get to Work. Physics Today, 2005, 58, 41-47.	0.3	50
85	Transport properties of LaTiO3+x films and heterostructures. Applied Physics Letters, 2003, 82, 3077-3079.	1.5	49
86	Monolithically Integrated Circuits from Functional Oxides. Advanced Materials Interfaces, 2014, 1, 1300031.	1.9	49
87	Electron Scattering at Dislocations in \langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \rangle \langle mml:mrow /> \langle mml:mi>LaAlO</mml:mi> \langle /mml:mrow> \langle mml:mn>3</mml:mn> \langle /mml:mrow> \langle /mml:math> \langle mml:mo>/</mml:mo> \langle mml:mrow /> \langle mml:mi>SrTiO</mml:mi> \langle /mml:mrow> \langle mml:mn>3</mml:mn> \langle /mml:mrow> \langle /mml:math> \langle mml:mo>/</mml:mo> \langle mml:mrow /> \langle mml:mi>oxide</mml:mi> \langle /mml:mrow> \langle mml:mo>/</mml:mo> \langle mml:mrow /> \langle mml:mi>heterostructures</mml:mi> \langle /mml:mrow> \langle mml:mo>/</mml:mo> \langle mml:mrow /> \langle mml:mi>inferred from hard x-ray photoelectron spectroscopy.</mml:math>	1.1	56
88	Imaging of atomic orbitals with the Atomic Force Microscope \hat{a} ϵ ” experiments and simulations. Annalen Der Physik, 2001, 10, 887-910.	0.9	43
89	Evaluation of a force sensor based on a quartz tuning fork for operation at low temperatures and ultrahigh vacuum. Applied Surface Science, 2002, 188, 445-449.	3.1	41
90	Interface superconductivity. Physica C: Superconductivity and Its Applications, 2015, 514, 189-198.	0.6	41

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91	LaAlO ₃ /SrTiO ₃ oxide heterostructures studied by resonant inelastic x-ray scattering. Physical Review B, 2010, 82. Spectral and spatial distribution of polarization at the LaAlO ₃ /SrTiO ₃ interface. Physical Review B, 2010, 82.	1.1	40
92	Half-integer quantum Hall effect in SrTiO ₃ . Physical Review Letters, 2007, 99, 116802.	1.1	40
93	Thermionic Energy Conversion in the Twenty-first Century: Advances and Opportunities for Space and Terrestrial Applications. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	40
94	Ferromagnetism and Conductivity in Atomically Thin SrRuO ₃ . Physical Review X, 2019, 9, .	2.8	40
95	Half-integer quantum Hall effect in SQUIDs. Europhysics Letters, 2004, 68, 86-92.	0.7	39
96	Effect of a geometrical length scale on remanent magnetization and critical currents in Y-Ba-Cu-O and Bi-Sr-Ca-Cu-O crystals. Physical Review B, 1990, 42, 6322-6331.	1.1	38
97	Emerging magnetism and electronic phase separation at titanate interfaces. Physical Review B, 2013, 88, .	1.1	38
98	Anomalous dependence of the critical current of 45° grain boundaries in YBa ₂ Cu ₃ O _{7-x} on an applied magnetic field. Zeitschrift für Physik B-Condensed Matter, 1996, 101, 175-179.	1.1	37
99	Half-integer quantum Hall effect in SrTiO ₃ . Physical Review Letters, 2007, 99, 116802.	1.1	37
100	Electron-phonon Coupling and the Superconducting Phase Diagram of the LaAlO ₃ /SrTiO ₃ Interface. Scientific Reports, 2015, 5, 12309.	1.6	37
101	Single-Gap Superconductivity and Dome of Superfluid Density in Nb-Doped SrTiO ₃ . Physical Review Letters, 2018, 120, 237002.	2.9	37
102	Extremely Small Energy Gap in the Quasi-One-Dimensional Conducting Chain Compound SrNbO ₃ . Physical Review Letters, 2002, 89, 236403.	2.9	36
103	Epitaxial growth of cuprate superconductors from the gas phase. Journal of Crystal Growth, 1994, 137, 259-267.	0.7	35
104	Superconducting memory based on ferromagnetism. Applied Physics Letters, 2006, 89, 163509.	1.5	35
105	Possible solution of the grain-boundary problem for applications of high-T _c superconductors. Applied Physics Letters, 2002, 81, 3209-3211.	1.5	34
106	Low-angle grain boundaries in YBa ₂ Cu ₃ O _{7-x} high critical current densities. Physical Review B, 2009, 79, .	2.4	34
107	Interfaces involving complex superconductors. Physica C: Superconductivity and Its Applications, 1999, 317-318, 383-391.	0.6	33
108	Tailoring of high-T _c Josephson junctions by doping their electrodes. Applied Physics Letters, 1999, 75, 850-852.	1.5	32

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109	Field-Effect Transistors with Submicrometer Gate Lengths Fabricated from $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. <i>Physical Review Applied</i> , 2015, 4, .	1.5	32
110	Two-dimensional imaging of trapped magnetic flux quanta in Josephson tunnel junctions. <i>Physical Review B</i> , 1987, 35, 5267-5269.	1.1	31
111	High-T _c Bicrystal Grain Boundaries. <i>Physics Today</i> , 2001, 54, 48-53.	0.3	31
112	Transparency of graphene for low-energy electrons measured in a vacuum-triode setup. <i>APL Materials</i> , 2015, 3, .	2.2	31
113	Electric field controllable Josephson junctions of high quality in high-T _c superconductors. <i>Applied Physics Letters</i> , 1996, 68, 3031-3033.	1.5	30
114	Spatially resolved observation of the critical current in high-T _c superconducting films. <i>Nature</i> , 1988, 332, 818-819.	13.7	29
115	Critical current measurements in single crystals and single-grain boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. <i>IBM Journal of Research and Development</i> , 1989, 33, 299-306.	3.2	29
116	Lutetium-doped EuO films grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	29
117	Spatial imaging of the critical current density in epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ films. <i>Applied Physics Letters</i> , 1989, 55, 2132-2134.	1.5	28
118	Signatures of polaronic excitations in quasi-one-dimensional LaTiO_3 . <i>Physical Review B</i> , 2003, 67, .	1.1	28
119	In-gap states in superconducting $\text{LaAlO}_3/\text{SrTiO}_3$ interface observed by tunneling spectroscopy. <i>Physical Review B</i> , 2017, 96, .	1.1	27
120	Dielectric properties and charge transport in the $(\text{Sr},\text{La})\text{NbO}_{3.5-x}$ system. <i>Physical Review B</i> , 2002, 65, .	1.1	26
121	Properties of superconducting p-n junctions. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 216, 401-416.	0.6	25
122	Spatial inhomogeneities at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface: Evidence from second harmonic generation. <i>Physical Review B</i> , 2012, 86, .	1.1	25
123	Electric field effect in high-T _c superconductors. <i>Journal of Alloys and Compounds</i> , 1993, 195, 519-525.	2.8	24
124	Flux-flow induced Nernst effect in superconducting YBaCuO films. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 167, 6-10.	0.6	23
125	Modifying electronic properties of interfaces in high-T _c superconductors by doping. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 326-327, 7-11.	0.6	23
126	Electronic structure of layered perovskite-related $\text{Sr}_{1-y}\text{La}_y\text{NbO}_{3.5-x}$. <i>Physical Review B</i> , 2000, 61, 1876-1883.	1.1	23

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127	d-Wave Induced Zero-Field Resonances in dc μ -Superconducting Quantum Interference Devices. <i>Physical Review Letters</i> , 2002, 88, 177003.	2.9	23
128	Large nonlinear magneto-optical effect in the centrosymmetric ferromagnetic semiconductor EuO. <i>Physical Review B</i> , 2010, 81, .	1.1	23
129	Current transport across grain boundaries in superconducting YBa ₂ Cu ₃ O ₇ films. <i>Journal of Superconductivity and Novel Magnetism</i> , 1990, 3, 281-285.	0.5	22
130	Low-temperature scanning electron microscopy studies of superconducting thin films and Josephson junctions. <i>Physica B: Condensed Matter</i> , 1991, 169, 415-421.	1.3	22
131	Simultaneous current-, force-, and work-function measurement with atomic resolution. <i>Applied Physics Letters</i> , 2005, 86, 153101.	1.5	22
132	Nanoscale modulation of the density of states at the conducting interface between LaAlO ₃ and SrTiO ₃ band insulators. <i>Europhysics Letters</i> , 2011, 93, 17004.	0.7	22
133	ZIF-8 Films Prepared by Femtosecond Pulsed-Laser Deposition. <i>Chemistry of Materials</i> , 2017, 29, 5148-5155.	3.2	22
134	Origin of the $\sqrt{2} \times \sqrt{2}$ peaks in YBa ₂ Cu ₃ O _{7δ} films grown on cubic zirconia substrates. <i>Journal of Materials Research</i> , 1996, 11, 1336-1348.	1.2	21
135	Ca-doping-induced enhancement of the critical currents of coated conductors grown by ion-beam-assisted deposition. <i>Applied Physics Letters</i> , 2003, 82, 772-774.	1.5	21
136	Quartet Formation at (100)/(110) Interfaces of d-Wave Superconductors. <i>Physical Review Letters</i> , 2005, 94, .	2.9	21
137	Searching atomic spin contrast on nickel oxide (001) by force microscopy. <i>Physical Review B</i> , 2008, 77, .	1.1	21
138	Diodes with breakdown voltages enhanced by the metal-insulator transition of LaAlO ₃ /SrTiO ₃ interfaces. <i>Applied Physics Letters</i> , 2010, 96, 183504.	1.5	21
139	Large negative electronic compressibility of LaAlO ₃ -SrTiO ₃ interfaces with ultrathin LaAlO ₃ layers. <i>Physical Review B</i> , 2012, 86, .	1.1	21
140	Spatial distribution of the maximum Josephson current in superconducting tunnel junctions. <i>Journal of Low Temperature Physics</i> , 1988, 70, 459-484.	0.6	20
141	IcR products of tunnel junctions with depressed order parameter. <i>Applied Physics Letters</i> , 1991, 58, 643-644.	1.5	20
142	Pinning centres in YBa ₂ Cu ₃ O _{7-δ} deltafilms. <i>Superconductor Science and Technology</i> , 1992, 5, S125-S128.	1.8	19
143	Mechanisms controlling interface-properties in high-T _c superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3405-3408.	1.1	19
144	Interface-mediated pairing in field effect devices. <i>Physical Review B</i> , 2005, 71, .	1.1	19

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145	Influence of the substrate temperature on the Curie temperature and charge carrier density of epitaxial Gd-doped EuO films. Applied Physics Letters, 2011, 98, .	1.5	18
146	Electric-Field-Induced Polar Order and Localization of the Confined Electrons in $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review Letters, 2013, 110, 136805.	2.9	18
147	Magnetic-field-free thermoelectronic power conversion based on graphene and related two-dimensional materials. Journal of Applied Physics, 2016, 119, 244507.	1.1	18
148	Intrinsic weak link originating from tilt in contacts between $d \times 2$ - y 2 wave superconductors. Applied Physics A: Materials Science and Processing, 1997, 64, 553-554.	1.1	17
149	Flux periodicities in loops of nodal superconductors. New Journal of Physics, 2009, 11, 075005.	1.2	17
150	Independence of surface morphology and reconstruction during the thermal preparation of perovskite oxide surfaces. Applied Physics Letters, 2018, 112, .	1.5	16
151	Elementary pinning forces measured using low temperature scanning electron microscopy. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 122, 439-442.	0.9	15
152	Critical currents in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films containing screw dislocations. Cryogenics, 1993, 33, 486-491.	0.9	15
153	Influence of the doping concentration of $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ drain-source channels on the properties of superconducting field-effect devices. Applied Physics Letters, 2003, 83, 3528-3530.	1.5	15
154	Giant third-order magneto-optical rotation in ferromagnetic EuO. Physical Review B, 2012, 86, .	1.1	15
155	An optimized TEM specimen preparation method of quantum nanostructures. Micron, 2021, 140, 102979.	1.1	15
156	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.	1.1	14
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