

Jochen D Mannhart

List of Publications by Year in descending order

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270
papers

24,933
citations

12303

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6818

155
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280
all docs

280
docs citations

280
times ranked

12521
citing authors

#	ARTICLE	IF	CITATIONS
1	Reflectometry with Polarized Neutrons on In Situ Grown Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, 2100153.	0.7	3
2	Engineering the stoichiometry of a TiO ₂ -rich SrTiO ₃ (001) surface. <i>Applied Physics Letters</i> , 2022, 120, 161602.	1.5	1
3	An optimized TEM specimen preparation method of quantum nanostructures. <i>Micron</i> , 2021, 140, 102979.	1.1	15
4	2D Doping of Proton Conductors: BaZrO ₃ -Based Heterostructures. <i>Advanced Energy Materials</i> , 2021, 11, 2003267.	10.2	6
5	Determination of the phase coherence length of PdCoO ₂ nanostructures by conductance fluctuation analysis. <i>Physical Review B</i> , 2021, 103, .	1.1	8
6	Inelastic Electron Tunneling Spectroscopy at High-Temperatures. <i>Advanced Materials</i> , 2021, 33, 2007299.	11.1	3
7	Non-unitary quantum electronics: Novel functions from the edge of the quantum world. <i>Nano Express</i> , 2021, 2, 014008.	1.2	2
8	Atomic-scale imaging of flexoelectric polarization around engineered crack tips. <i>Microscopy and Microanalysis</i> , 2021, 27, 2332-2333.	0.2	0
9	Epitaxial film growth by thermal laser evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	3
10	Decoherence effects break reciprocity in matter transport. <i>Physical Review B</i> , 2021, 104, .	1.1	2
11	Beyond Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 249-251.	0.8	2
12	Fermi's Golden Rule and the Second Law of Thermodynamics. <i>Foundations of Physics</i> , 2020, 50, 1509-1540.	0.6	5
13	Probing Charge Accumulation at SrMnO ₃ /SrTiO ₃ Heterointerfaces via Advanced Electron Microscopy and Spectroscopy. <i>ACS Nano</i> , 2020, 14, 12697-12707.	7.3	9
14	Aberration-corrected STEM Observations on the Interfacial Structure and Strain Fields of Patterned SrRuO ₃ Artificial Atoms. <i>Microscopy and Microanalysis</i> , 2019, 25, 964-965.	0.2	0
15	TEM Sample Preparation of Patterned Quantum Dots. <i>Microscopy and Microanalysis</i> , 2019, 25, 790-791.	0.2	0
16	Phase filters for a novel kind of asymmetric transport – Scientific prospects and opportunities for possible applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 109, 198-200.	1.3	3
17	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019, 482, 1-93.	3.1	236
18	Ferromagnetism and Conductivity in Atomically Thin SrRuO ₃ . <i>Physical Review X</i> , 2019, 9, .	2.8	40

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19	Magnetic Properties of Epitaxially Grown SrRuO ₃ Nanodots. Nano Letters, 2019, 19, 1131-1135.	4.5	9
20	Lossless Currents at High Temperatures. Journal of Superconductivity and Novel Magnetism, 2019, 32, 17-21.	0.8	5
21	Modulation of Superconducting Transition Temperature in LaAlO ₃ /SrTiO ₃ by SrTiO ₃ Structural Domains. Journal of Superconductivity and Novel Magnetism, 2019, 32, 821-825.	0.8	9
22	Exploring possible ferromagnetism of the LaAlO ₃ /SrTiO ₃ interface. Physical Review Materials, 2019, 3, .	0.9	6
23	Antilocalization at an oxide interface. Physical Review B, 2018, 97, .	1.1	14
24	Investigation of LaAlO ₃ -SrTiO ₃ field-effect transistors under hydrostatic pressure. Applied Physics Letters, 2018, 113, 143507.	1.5	3
25	Coherently strained epitaxial YBa ₂ Cu ₃ O _{7-δ} films grown on NdGaO ₃ (110). Applied Physics Letters, 2018, 113, 022605.	1.5	3
26	Independence of surface morphology and reconstruction during the thermal preparation of perovskite oxide surfaces. Applied Physics Letters, 2018, 112, .	1.5	16
27	Non-reciprocal Interferometers for Matter Waves. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1649-1657.	0.8	9
28	Linear temperature dependence of the upper critical field across the dome of the LaAlO ₃ -SrTiO ₃ interface superconductor. Physical Review B, 2018, 98, .	1.1	3
29	Single-Gap Superconductivity and Dome of Superfluid Density in Nb-Doped SrTiO_3 . Physical Review Letters, 2018, 120, 237002.	2.9	37
30	ZIF-8 Films Prepared by Femtosecond Pulsed-Laser Deposition. Chemistry of Materials, 2017, 29, 5148-5155.	3.2	22
31	The oxidation kinetics of thin nickel films between 250 and 500 Å°C. Physical Chemistry Chemical Physics, 2017, 19, 9045-9052.	1.3	58
32	<i>In Situ</i> Polarized Neutron Reflectometry: Epitaxial Thin-Film Growth of Fe on Cu(001) by dc Magnetron Sputtering. Physical Review Applied, 2017, 7, .	1.5	11
33	In-gap states in superconducting LaAlO_3 observed by tunneling spectroscopy. Physical Review B, 2017, 96, .	1.7	17
34	High-Temperature Latent-Heat Energy Storage Concept Based on Thermoelectronic Energy Conversion. Energy Technology, 2017, 5, 2234-2243.	1.8	8
35	Chemical diffusion coefficient of Ni in undoped and Cr-doped NiO. Solid State Ionics, 2017, 309, 110-117.	1.3	10
36	Two-Port-Network-Based Method to Measure Electrical Characteristics of MIS Devices With Ultrathin Barriers. IEEE Transactions on Electron Devices, 2017, 64, 2625-2628.	1.6	2

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37	Thermoelectronic energy conversion: Concepts and materials. MRS Bulletin, 2017, 42, 518-524.	1.7	11
38	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
39	Evidence for superconducting phase coherence in the metallic/insulating regime of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface electron system. New Journal of Physics, 2016, 18, 013046.	1.2	14
40	Magnetic-field-free thermoelectronic power conversion based on graphene and related two-dimensional materials. Journal of Applied Physics, 2016, 119, 244507.	1.1	18
41	Hydrostatic pressure response of an oxide-based two-dimensional electron system. Physical Review B, 2016, 93, .	1.1	11
42	Artificial atoms based on correlated materials. Reports on Progress in Physics, 2016, 79, 084508.	8.1	13
43	Three-Terminal Devices. , 2016, , .		0
44	Field-Effect Transistors with Submicrometer Gate Lengths Fabricated from $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. Physical Review Applied, 2015, 4, .	1.5	32
45	Electron-phonon Coupling and the Superconducting Phase Diagram of the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Scientific Reports, 2015, 5, 12309.	1.6	37
46	Transparency of graphene for low-energy electrons measured in a vacuum-triode setup. APL Materials, 2015, 3, .	2.2	31
47	Interface superconductivity. Physica C: Superconductivity and Its Applications, 2015, 514, 189-198.	0.6	41
48	Laser ablation of molecular carbon nitride compounds. Applied Surface Science, 2015, 349, 353-360.	3.1	11
49	Ultrafast optical tuning of ferromagnetism via the carrier density. Nature Communications, 2015, 6, 6724.	5.8	56
50	Monolithically Integrated Circuits from Functional Oxides. Advanced Materials Interfaces, 2014, 1, 1300031.	1.9	49
51	Direct k -Space Mapping of the Electronic Structure in an Oxide-Oxide Interface. Physical Review Letters, 2013, 110, 247601.	2.9	136
52	LaAlO_3 stoichiometry is key to electron liquid formation at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. Nature Communications, 2013, 4, 2351.	5.8	198
53	Interface superconductor with gap behaviour like a high-temperature superconductor. Nature, 2013, 502, 528-531.	13.7	209
54	Locally enhanced conductivity due to the tetragonal domain structure in $\text{LaAlO}_3/\text{SrTiO}_3$ heterointerfaces. Nature Materials, 2013, 12, 1091-1095.	13.3	172

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55	Emerging magnetism and electronic phase separation at titanate interfaces. Physical Review B, 2013, 88, .	1.1	38
56	Electric-Field-Induced Polar Order and Localization of the Confined Electrons in $\text{LaAlO}_3/\text{SrTiO}_3$ Interfaces. Physical Review Letters, 2013, 110, 136805.	2.9	18
57	Highly-efficient thermoelectronic conversion of solar energy and heat into electric power. Journal of Renewable and Sustainable Energy, 2013, 5, .	0.8	90
58	Band alignment in $\text{LaAlO}_3/\text{SrTiO}_3$ interface: oxide heterostructures inferred from hard x-ray photoelectron spectroscopy. Physical Review B, 2013, 88, .	1.1	56
59	Lutetium-doped EuO films grown by molecular-beam epitaxy. Applied Physics Letters, 2012, 100, .	1.5	29
60	Giant third-order magneto-optical rotation in ferromagnetic EuO. Physical Review B, 2012, 86, .	1.1	15
61	Spatial inhomogeneities at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface: Evidence from second harmonic generation. Physical Review B, 2012, 86, .	1.1	25
62	Large negative electronic compressibility of LaAlO_3 - SrTiO_3 interfaces with ultrathin LaAlO_3 layers. Physical Review B, 2012, 86, .	1.1	21
63	Electronic materials through time. Nature Materials, 2012, 11, 751-752.	13.3	7
64	é»âœšãšã€µŕç,ä½“ã,é†â±žã«â%ãâ,ç¼• Nature Digest, 2012, 9, 26-27.	0.0	0
65	Writing Nanowires with Large Conductivity Ratios in $\text{LaAlO}_3/\text{SrTiO}_3$ Interfaces. Journal of the Physical Society of Japan, 2012, 81, 064703.	0.7	2
66	Magnetic and superconducting phases at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface: The role of interfacial Ti^{3+} . Physical Review B, 2012, 86, .	1.1	137
67	Field-effect devices utilizing LaAlO_3 - SrTiO_3 interfaces. Applied Physics Letters, 2012, 100, .	1.5	111
68	Oxygen vacancies at titanate interfaces: Two-dimensional magnetism and orbital reconstruction. Physical Review B, 2012, 86, .	1.1	124
69	Put the pedal to the metal. Nature, 2012, 487, 436-437.	13.7	4
70	Coexistence of magnetic order and two-dimensional superconductivity at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. Nature Physics, 2011, 7, 762-766.	6.5	744
71	Spectral and spatial distribution of polarization at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2011, 84, 040403.	1.1	40
72	Interface takes charge over Si. Nature Materials, 2011, 10, 168-169.	13.3	93

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73	Very Large Capacitance Enhancement in a Two-Dimensional Electron System. <i>Science</i> , 2011, 332, 825-828.	6.0	185
74	Increasing Magnetoresistance Using Magnetic-Field-Tunable Interfaces. <i>Advanced Materials</i> , 2011, 23, 1242-1245.	11.1	4
75	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
76	Influence of the substrate temperature on the Curie temperature and charge carrier density of epitaxial Gd-doped EuO films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	18
77	Metal-insulator transition of the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review Letters</i> , 2011, 106, 036101.	1.1	37
78	Interface-induced d-wave pairing. <i>Physical Review B</i> , 2011, 84, .	1.1	12
79	Publisher's Note: Spectral and spatial distribution of polarization at the LaAlO ₃ /SrTiO ₃ interface [Phys. Rev. B 83, 155405 (2011)]. <i>Physical Review B</i> , 2011, 83, .	1.1	3
80	Evolution of the Interfacial Structure of LaAlO ₃ /SrTiO ₃ Interface. <i>Physical Review Letters</i> , 2011, 106, 036101.	2.9	132
81	Grain boundary networks in high-performance, heteroepitaxial, YBCO films on polycrystalline, cube-textured metals. <i>Philosophical Magazine Letters</i> , 2011, 91, 246-255.	0.5	4
82	Optical second- and third-harmonic generation on the ferromagnetic semiconductor europium oxide. <i>Journal of Applied Physics</i> , 2011, 109, 07C309.	1.1	10
83	Angular Dependence of the Magnetoresistance of the SrTiO ₃ /LaAlO ₃ Interface. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 1630-1632.	1.2	10
84	How grain boundaries limit supercurrents in high-temperature superconductors. <i>Nature Physics</i> , 2010, 6, 609-614.	6.5	100
85	LaAlO ₃ /SrTiO ₃ oxide heterostructures studied by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2010, 82, .	1.1	40
86	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
87	Two-dimensional electron liquid state at the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2010, 81, .	1.1	101
88	Is There an Intrinsic Limit to the Charge-Carrier-Induced Increase of the Curie Temperature of EuO?. <i>Physical Review Letters</i> , 2010, 105, 257206.	2.9	52
89	Dynamical Response and Confinement of the Electrons at the LaAlO ₃ /SrTiO ₃ Interface. <i>Physical Review Letters</i> , 2010, 104, 156807.	2.9	93
90	Large nonlinear magneto-optical effect in the centrosymmetric ferromagnetic semiconductor EuO. <i>Physical Review B</i> , 2010, 81, .	1.1	23

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91	Oxide Interfaces – An Opportunity for Electronics. Science, 2010, 327, 1607-1611.	6.0	1,186
92	Low-angle grain boundaries in YBaCuO with high critical current densities. Physical Review B, 2009, 79, .	2.4	84
93	Electron Scattering at Dislocations in LaAlO_3 . Physical Review Letters, 2009, 102, 046809.	2.9	55
94	Polar catastrophe and electronic reconstructions at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface: Evidence from optical second harmonic generation. Physical Review B, 2009, 80, .	3.1	116
95	Comment on “Half-metallicity in europium oxide conductively matched with silicon”. Physical Review B, 2009, 80, .	1.1	1
96	Flux periodicities in loops of nodal superconductors. New Journal of Physics, 2009, 11, 075005.	1.2	17
97	Durchstimmbarer, zweidimensionaler Supraleiter. Physik in Unserer Zeit, 2009, 40, 68-69.	0.0	0
98	Profiling the Interface Electron Gas of $\text{LaAlO}_3/\text{SrTiO}_3$ with Hard X-Ray Photoelectron Spectroscopy. Physical Review Letters, 2009, 102, 176805.	2.9	56
99	Oxide Nanoelectronics on Demand. Science, 2009, 323, 1026-1030.	6.0	432
100	Calculation of the capacitances of conductors: Perspectives for the optimization of electronic devices. Journal of Applied Physics, 2009, 106, .	1.1	71
101	Orbital Reconstruction and the Two-Dimensional Electron Gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Physical Review Letters, 2009, 102, 166804.	2.9	274
102	Electric field control of the $\text{LaAlO}_3/\text{SrTiO}_3$ interface ground state. Nature, 2008, 456, 624-627.	13.7	1,068
103	When TTF met TCNQ. Nature Materials, 2008, 7, 520-521.	13.3	77
104	Magnetic flux periodicity of h/e in superconducting loops. Nature Physics, 2008, 4, 112-115.	6.5	53
105	Nanoscale control of an interfacial metal-insulator transition at room temperature. Nature Materials, 2008, 7, 298-302.	13.3	525
106	Two-Dimensional Electron Gases at Oxide Interfaces. MRS Bulletin, 2008, 33, 1027-1034.	1.7	238
107	Field and temperature dependence of the magnetization in ferromagnetic EuO thin films. Journal of Physics Condensed Matter, 2008, 20, 104230.	0.7	7
108	Searching atomic spin contrast on nickel oxide (001) by force microscopy. Physical Review B, 2008, 77, .	1.1	21

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109	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
110	Superconducting Interfaces Between Insulating Oxides. <i>Science</i> , 2007, 317, 1196-1199.	6.0	2,374
111	Electrostatic modification of novel materials. <i>Reviews of Modern Physics</i> , 2006, 78, 1185-1212.	16.4	465
112	Properties of grain boundaries in high-Tc superconductors – Notes on a recent presentation. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 450, 152-155.	0.6	2
113	SCENET roadmap for superconductor digital electronics. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 439, 1-41.	0.6	58
114	Doping effect on pairing symmetry in cuprate superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 64-67.	1.9	11
115	Subtleties in ADF imaging and spatially resolved EELS: A case study of low-angle twist boundaries in SrTiO ₃ . <i>Ultramicroscopy</i> , 2006, 106, 1053-1061.	0.8	67
116	Tunable Quasi-Two-Dimensional Electron Gases in Oxide Heterostructures. <i>Science</i> , 2006, 313, 1942-1945.	6.0	1,423
117	NanoSIMS analysis of Ca doping at a grain boundary in a superconducting YBCO Ca-123/123 bicrystal. <i>Journal of Physics: Conference Series</i> , 2006, 43, 272-276.	0.3	5
118	Superconducting memory based on ferromagnetism. <i>Applied Physics Letters</i> , 2006, 89, 163509.	1.5	35
119	Microlithography of electron gases formed at interfaces in oxide heterostructures. <i>Applied Physics Letters</i> , 2006, 89, 122101.	1.5	99
120	Transport properties of low angle grain boundaries in Y _{1-x} CaxBa ₂ Cu ₃ O _{7-δ} films at high magnetic fields. <i>Applied Physics Letters</i> , 2006, 88, 132510.	1.5	3
121	Focusing quantum states on surfaces: A route towards the design of ultrasmall electronic devices. <i>Physical Review B</i> , 2006, 74, .	1.1	11
122	Catching dopants in action. <i>Nature Materials</i> , 2005, 4, 431-432.	13.3	6
123	Interfaces in Materials with Correlated Electron Systems. , 2005, , 251-278.		7
124	Simultaneous current-, force-, and work-function measurement with atomic resolution. <i>Applied Physics Letters</i> , 2005, 86, 153101.	1.5	22
125	Quartet Formation at(100)/(110)Interfaces of d-Wave Superconductors. <i>Physical Review Letters</i> , 2005, 94, .	2.9	21
126	Studies of superconducting field effect transistors with sheet resistances close to the quantum resistance. <i>Applied Physics Letters</i> , 2005, 86, 202505.	1.5	8

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127	Eucentric four-axis ultrahigh vacuum goniometer for reflection high-energy electron diffraction applications. Review of Scientific Instruments, 2005, 76, 123901.	0.6	1
128	Interface-mediated pairing in field effect devices. Physical Review B, 2005, 71, .	1.1	19
129	Local Spectroscopy and Atomic Imaging of Tunneling Current, Forces, and Dissipation on Graphite. Physical Review Letters, 2005, 94, 056101.	2.9	106
130	Linear and nonlinear microwave properties of Ca-doped YBa ₂ Cu ₃ O _{7-δ} thin films. Physical Review B, 2005, 72, .	1.1	9
131	High-Temperature Cuprate Superconductors Get to Work. Physics Today, 2005, 58, 41-47.	0.3	50
132	Effect of Ca doping on the nonlinear microwave properties of YBCO thin films. Superconductor Science and Technology, 2004, 17, S422-S426.	1.8	2
133	Robust d _{x²-y²} Pairing Symmetry in Hole-Doped Cuprate Superconductors. Physical Review Letters, 2004, 93, 187004.	2.9	73
134	Capacitance measurements on grain boundaries in Y _{1-x} Ca _x Ba ₂ Cu ₃ O _{7-δ} . Physical Review B, 2004, 70, .	1.1	12
135	Electron Transport through YBa ₂ Cu ₃ O _{7-δ} Grain Boundary Interfaces between 4.2 and 300 K. Physical Review Letters, 2004, 92, 257003.	2.9	12
136	Force Microscopy with Light-Atom Probes. Science, 2004, 305, 380-383.	6.0	178
137	The value of seeing nothing. Nature, 2004, 430, 620-621.	13.7	51
138	Half- $h/2e$ critical current π Oscillations of SQUIDs. Europhysics Letters, 2004, 68, 86-92.	0.7	39
139	Stability considerations and implementation of cantilevers allowing dynamic force microscopy with optimal resolution: the qPlus sensor. Nanotechnology, 2004, 15, S79-S86.	1.3	73
140	Influence of the doping concentration of YBa ₂ Cu ₃ O _{7-δ} drain-source channels on the properties of superconducting field-effect devices. Annalen Der Physik, 2004, 13, 66-67.	0.9	1
141	Unusual current-voltage characteristics of single crystalline and bicrystalline La _{0.7} Ca _{0.3} MnO ₃ films. Annalen Der Physik, 2004, 13, 595-599.	0.9	1
142	Probing the shape of atoms in real space. Physical Review B, 2003, 68, .	1.1	83
143	Electric field effect in correlated oxide systems. Nature, 2003, 424, 1015-1018.	13.7	629
144	Conduction and magnetoresistance in doped manganite grain boundaries. Applied Physics Letters, 2003, 82, 2670-2672.	1.5	14

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145	Transport properties of LaTiO _{3+x} films and heterostructures. Applied Physics Letters, 2003, 82, 3077-3079.	1.5	49
146	Revealing the hidden atom in graphite by low-temperature atomic force microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12539-12542.	3.3	152
147	Ca-doping-induced enhancement of the critical currents of coated conductors grown by ion-beam-assisted deposition. Applied Physics Letters, 2003, 82, 772-774.	1.5	21
148	Signatures of polaronic excitations in quasi-one-dimensional LaTiO _{3.41} . Physical Review B, 2003, 67, .	1.1	28
149	Influence of the doping concentration of Y _{1-x} CayBa ₂ Cu ₃ O _{7-δ} drain-source channels on the properties of superconducting field-effect devices. Applied Physics Letters, 2003, 83, 3528-3530.	1.5	15
150	Improving coated conductors. IEEE Transactions on Applied Superconductivity, 2003, 13, 2625-2627.	1.1	1
151	Pairing symmetry in Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+x} . Europhysics Letters, 2003, 64, 489-495.	0.7	7
152	Experiments with d-wave Superconductors. , 2003, , .		0
153	d-Wave Induced Zero-Field Resonances in d _{xy} -Superconducting Quantum Interference Devices. Physical Review Letters, 2002, 88, 177003.	2.9	23
154	Possible solution of the grain-boundary problem for applications of high-T _c superconductors. Applied Physics Letters, 2002, 81, 3209-3211.	1.5	34
155	Observation of Splintered Josephson Vortices at Grain Boundaries in YBa ₂ Cu ₃ O _{7-δ} . Physical Review Letters, 2002, 89, 067004.	2.9	59
156	Extremely Small Energy Gap in the Quasi-One-Dimensional Conducting Chain Compound SrNbO _{3.41} . Physical Review Letters, 2002, 89, 236403.	2.9	36
157	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
158	Grain boundaries in high-T _c superconductors. Reviews of Modern Physics, 2002, 74, 485-549.	16.4	787
159	Coated conductors containing grains with big aspect ratios. Annalen Der Physik, 2002, 11, 497-502.	0.9	4
160	Dielectric properties and charge transport in the (Sr,Lu)NbO _{3.5-δ} system. Physical Review B, 2002, 65, .	1.1	26
161	Investigating the pairing state of cuprate superconductors via quasiparticle tunneling and spin injection. Physica C: Superconductivity and Its Applications, 2002, 367, 174-180.	0.6	11
162	Probing unconventional superconducting symmetries using Josephson interferometry. Physica C: Superconductivity and Its Applications, 2002, 368, 261-266.	0.6	5

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163	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
164	Large grain boundary area superconductors. European Physical Journal B, 2002, 27, 299-301.	0.6	7
165	High-temperature Superconductors: Thin Films and Multilayers. , 2001, , 3806-3819.		3
166	Synthesis of perovskite-related layered $AnBnO_{3n+2}$ = ABOX type niobates and titanates and study of their structural, electric and magnetic properties. Progress in Solid State Chemistry, 2001, 29, 1-70.	3.9	206
167	High-T _c Bicrystal Grain Boundaries. Physics Today, 2001, 54, 48-53.	0.3	31
168	Imaging silicon by atomic force microscopy with crystallographically oriented tips. Applied Physics A: Materials Science and Processing, 2001, 72, S15-S17.	1.1	12
169	Spatial homogeneity and doping dependence of quasiparticle tunneling spectra in cuprate superconductors. Physica C: Superconductivity and Its Applications, 2001, 364-365, 450-457.	0.6	8
170	Interfaces in high-T _c superconductors: fundamental insights and possible applications. Current Applied Physics, 2001, 1, 349-353.	1.1	3
171	Imaging of atomic orbitals with the Atomic Force Microscope " experiments and simulations. Annalen Der Physik, 2001, 10, 887-910.	0.9	43
172	Doping-induced enhancement of grain boundary critical currents. IEEE Transactions on Applied Superconductivity, 2001, 11, 2830-2837.	1.1	12
173	Evidence of Doping-Dependent Pairing Symmetry in Cuprate Superconductors. Physical Review Letters, 2001, 87, 087003.	2.9	124
174	Imaging of atomic orbitals with the Atomic Force Microscope " experiments and simulations. , 2001, 10, 887.		1
175	Imaging of atomic orbitals with the Atomic Force Microscope " experiments and simulations. , 2001, 10, 887.		4
176	Three-terminal Devices. , 2001, , 9349-9351.		0
177	Grain Boundaries and Other Interfaces in Cuprate High-T _c Superconductors. , 2001, , 519-528.		1
178	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
179	Enhanced supercurrent density in polycrystalline $YBa_2Cu_3O_{7-\delta}$ at 77 K from calcium doping of grain boundaries. Nature, 2000, 407, 162-164.	13.7	255
180	Electronic structure of layered perovskite-related $Sr_{1-x}La_xNbO_{3.5-x}$. Physical Review B, 2000, 61, 1876-1883.	1.1	23

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