Mark Blamire

List of Publications by Year
in descending order

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322 papers	11,542 citations	47409 49 h-index	46524 93 g-index
347 all docs	347 docs citations	347 times ranked	9765 citing authors

#	Article	IF	Citations
1	Coexistence and tuning of spin-singlet and triplet transport in spin-filter Josephson junctions. Communications Physics, 2022, 5, .	2.0	17
2	Enhancement of Josephson Critical Currents in Ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Co</mml:mi><mml:mn>40</mml:mn></mml:msub></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>40</mml:mn></mml:msub></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><m	1.5	1
3	The Potential of the Josephson Energy. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1629-1632.	0.8	0
4	Spin-orbit coupling suppression and singlet-state blocking of spin-triplet Cooper pairs. Science Advances, 2021, 7, .	4.7	14
5	Tunable Pure Spin Supercurrents and the Demonstration of Their Gateability in a Spin-Wave Device. Physical Review X, 2020, 10, .	2.8	17
6	Critical Current Suppression in Spin-Filter Josephson Junctions. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3043-3049.	0.8	2
7	Pair suppression caused by mosaic-twist defects in superconducting Sr2RuO4 thin-films prepared using pulsed laser deposition. Communications Materials, 2020, 1, .	2.9	6
8	Spin-transport in superconductors. Applied Physics Letters, 2020, 116, .	1.5	23
9	Low temperature characterization of high efficiency spin-filter Josephson junctions. EPJ Web of Conferences, 2020, 233, 05007.	0.1	0
10	Effect of Meissner Screening and Trapped Magnetic Flux on Magnetization Dynamics in Thick <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Nb</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml:ms Trilayers. Physical Review Applied, 2019, 11, .	1.5	44
11	Tuning of Magnetic Activity in Spin-Filter Josephson Junctions Towards Spin-Triplet Transport. Physical Review Letters, 2019, 122, 047002.	2.9	24
12	Abrikosov vortex nucleation and its detrimental effect on superconducting spin pumping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Pt</mml:mi><mml:mo>/</mml:mo><mml:mi mathvariant="normal">Nb</mml:mi><mml:mo>/</mml:mo><mml:mi mathvariant="normal">Ni</mml:mi></mml:mrow><mml:mn>80</mml:mn></mml:msub><mml:msub><mml:mi	1.1	25
13	Sudden magnetization drops in superconductor/ferromagnet bilayered structures. Superconductor Science and Technology, 2019, 32, 01LT02.	1.8	3
14	Exchange-field enhancement of superconducting spin pumping. Physical Review B, 2019, 99, .	1.1	31
15	Spin transport parameters of NbN thin films characterized by spin pumping experiments. Physical Review Materials, 2019, 3, .	0.9	30
16	Enhanced spin pumping into superconductors provides evidence for superconducting pure spin currents. Nature Materials, 2018, 17, 499-503.	13.3	107
17	Phase shift of oscillatory magnetoresistance in a double-cross thin film structure of La0.3Pr0.4Ca0.3MnO3 via strain-engineered elongation of electronic domains. Physical Review B, 2018, 97, .	1.1	2
18	Electric power transfer in spin-pumping experiments. Applied Physics Express, 2018, 11, 013004.	1.1	3

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19	All-spinel oxide Josephson junctions for high-efficiency spin filtering. Journal of Physics Condensed Matter, 2018, 30, 015804.	0.7	7
20	Electrodynamics of Josephson junctions containing strong ferromagnets. Physical Review B, 2018, 98, .	1.1	16
21	Controlling the superconducting transition by spin-orbit coupling. Physical Review B, 2018, 97, .	1.1	45
22	Spin-Pumping-Induced Inverse Spin Hall Effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Nb</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>Ni</mml:mi><mml:mn>80</mml:mn></mml:ms Bilayers and its Strong Decay Across the Superconducting Transition Temperature. Physical Review Applied, 2018, 10, .	1.5	38
23	Magnetic Exchange Fields and Domain Wall Superconductivity at an All-Oxide Superconductor-Ferromagnet Insulator Interface. Physical Review Letters, 2018, 121, 077003.	2.9	11
24	Triplet Cooper pairs induced in diffusive s-wave superconductors interfaced with strongly spin-polarized magnetic insulators or half-metallic ferromagnets. Scientific Reports, 2017, 7, 1932.	1.6	33
25	Spectroscopic evidence of odd frequency superconducting order. Scientific Reports, 2017, 7, 40604.	1.6	20
26	Out of plane superconducting Nb/Cu/Ni/Cu/Co triplet spin-valves. Applied Physics Letters, 2017, 111, .	1.5	17
27	Electronic Structure and Band Alignment at the NiO and SrTiO₃ pâ€“n Heterojunctions. ACS Applied Materials & Interfaces, 2017, 9, 26549-26555.	4.0	65
28	Superconducting exchange coupling between ferromagnets. Nature Materials, 2017, 16, 195-199.	13.3	61
29	Intrinsic and Extrinsic Ferromagnetism in Co-Doped Indium Tin Oxide Revealed Using X-Ray Magnetic Circular Dichroism. Advances in Condensed Matter Physics, 2017, 2017, 1-7.	0.4	5
30	Fully magnetic manganite spin filter tunnel junctions. Applied Physics Letters, 2016, 109, .	1.5	7
31	Enhanced localized superconductivity in Sr₂RuO₄thin film by pulsed laser deposition. Superconductor Science and Technology, 2016, 29, 095005.	1.8	19
32	Turning antiferromagnetic Sm_{0.34}Sr_{0.66}MnO₃ into a 140 K ferromagnet using a nanocomposite strain tuning approach. Nanoscale, 2016, 8, 8083-8090.	2.8	25
33	Interfaceâ€Coupled BiFeO₃/BiMnO₃ Superlattices with Magnetic Transition Temperature up to 410 K. Advanced Materials Interfaces, 2016, 3, 1500597.	1.9	14
34	P-type transparent conducting oxides. Journal of Physics Condensed Matter, 2016, 28, 383002.	0.7	274
35	Large interfacial exchange fields in a thick superconducting film coupled to a spin-filter tunnel barrier. Physical Review B, 2015, 92, .	1.1	27
36	Large Superconducting Spin Valve Effect and Ultrasmall Exchange Splitting in Epitaxial Rare-Earth-Niobium Trilayers. Physical Review Letters, 2015, 115, 067201.	2.9	42

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37	Macroscopic quantum tunnelling in spin filter ferromagnetic Josephson junctions. Nature Communications, 2015, 6, 7376.	5.8	44
38	First Observation of Flux Avalanches in a-MoSi Superconducting Thin Films. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	23
39	Strongly Biasâ€Dependent Tunnel Magnetoresistance in Manganite Spin Filter Tunnel Junctions. Advanced Materials, 2015, 27, 3079-3084.	11.1	15
40	Signature of magnetic-dependent gapless odd frequency states at superconductor/ferromagnet interfaces. Nature Communications, 2015, 6, 8053.	5.8	113
41	Microwave Conductivity of Sorted CNT Assemblies. Scientific Reports, 2015, 4, 3762.	1.6	17
42	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFe_{0.5}Mn_{0.5}O₃. Advanced Functional Materials, 2014, 24, 7478-7487.	7.8	38
43	Magnetic state controllable critical temperature in epitaxial Ho/Nb bilayers. APL Materials, 2014, 2, .	2.2	21
44	Triplet pair correlations and nonmonotonic supercurrent decay with Cr thickness in Nb/Cr/Fe/Nb Josephson devices. Physical Review B, 2014, 89, .	1.1	22
45	Crossover from diffusive to tunneling regime in NbN/DyN/NbN ferromagnetic semiconductor tunnel junctions. Physical Review B, 2014, 89, .	1.1	19
46	Pure second harmonic current-phase relation in spin-filter Josephson junctions. Nature Communications, 2014, 5, 3340.	5.8	60
47	Evidence for spin selectivity of triplet pairs in superconducting spin valves. Nature Communications, 2014, 5, 3048.	5.8	74
48	Magnetic properties ofIn2O3containingFe3O4nanoparticles. Physical Review B, 2014, 90, .	1.1	12
49	Reversible control of spin-polarized supercurrents in ferromagnetic Josephson junctions. Nature Communications, 2014, 5, 4771.	5.8	73
50	The interface between superconductivity and magnetism: understanding and device prospects. Journal of Physics Condensed Matter, 2014, 26, 453201.	0.7	101
51	Giant triplet proximity effect in superconducting pseudo spin valves with engineered anisotropy. Physical Review B, 2014, 89, .	1.1	84
52	Supercurrents in half-metallic ferromagnetic La _{0.7} Ca _{0.3} MnO ₃. Europhysics Letters, 2014, 106, 37003.	0.7	22
53	Optical characterization of nonlocal spin transfer torque acting on a single nanomagnet. Physical Review B, 2014, 89, .	1.1	4
54	Magnetic field dependence of the proximity-induced triplet superconductivity at ferromagnet/superconductor interfaces. Physical Review B, 2014, 89, .	1.1	36

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55	Nanopillar Spin Filter Tunnel Junctions with Manganite Barriers. Nano Letters, 2014, 14, 2789-2793.	4.5	20
56	Introduction to Magnetic Oxides. , 2013, , 1-49.		10
57	Electric-Field Control of Ferromagnetism in a Nanocomposite via a ZnO Phase. Nano Letters, 2013, 13, 5886-5890.	4.5	33
58	Strong room temperature exchange bias in self-assembled BiFeO3â€“Fe3O4 nanocomposite heteroepitaxial films. Applied Physics Letters, 2013, 102, .	1.5	46
59	Structural and magnetic properties of CoTiO3 thin films on SrTiO3 (001). Journal of Magnetism and Magnetic Materials, 2013, 332, 67-70.	1.0	14
60	Tuning the two-dimensional carrier density at LaAlO3/SrTiO3 interfaces via rare earth doping. Solid State Communications, 2013, 156, 35-37.	0.9	9
61	Field modulation of the critical current in magnetic Josephson junctions. Superconductor Science and Technology, 2013, 26, 055017.	1.8	16
62	Positive magnetoresistance induced by fan-type phases in a spin-spiral magnet. Physical Review B, 2013, 88, .	1.1	12
63	Electricâ€Fieldâ€Dependent Spin Polarization in GdN Spin Filter Tunnel Junctions. Advanced Materials, 2013, 25, 5581-5585.	11.1	30
64	Carrier density modulation by structural distortions at modified LaAlO3/SrTiO3interfaces. Journal of Physics Condensed Matter, 2013, 25, 175005.	0.7	26
65	Suppression of magnetic coupling in superconducting GdN-NbN-GdN trilayers. Applied Physics Letters, 2013, 103, .	1.5	6
66	Vortex flipping in superconductor/ferromagnet spin-valve structures. Physical Review B, 2013, 87, .	1.1	6
67	Supra-oscillatory critical temperature dependence of Nb-Ho bilayers. Europhysics Letters, 2013, 101, 37002.	0.7	31
68	Spin filter superconducting tunnel junctions. Proceedings of SPIE, 2012, , .	0.8	10
69	Impact of structural transitions on electron transport at LaAlO3/SrTiO3 heterointerfaces. Applied Physics Letters, 2012, 100, 081601.	1.5	18
70	Direct imaging of spin relaxation in stepped Î±-Fe₂O₃/Ni₈₁Fe₁₉ bilayers using x-ray photoemission electron microscopy. Applied Physics Letters, 2012, 101, 052403.	1.5	1
71	Proposal of a One-Dimensional Electron Gas in the Steps at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mtext Evidence for anisotropic triplet superconductor order parameter in half-metallic ferromagnetic La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>Mn<mml:math xmlns:mm	2.9	21
72		1.1	54

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73	Josephson junctions incorporating a conical magnetic holmium interlayer. Physical Review B, 2012, 85, .	1.1	32
74	The new science of oxide interfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4839-4839.	1.6	1
75	Band-structure-dependent nonlinear giant magnetoresistance in Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>/Cu/Co/Cu dual spin valves. Physical Review B, 2012, 86, .	1.1	2
76	Supercurrent enhancement in Bloch domain walls. Scientific Reports, 2012, 2, 699.	1.6	46
77	Strong room temperature magnetism in highly resistive strained thin films of BiFe0.5Mn0.5O3. Applied Physics Letters, 2011, 98, .	1.5	39
78	Donor-band ferromagnetism in cobalt-doped indium oxide. Physical Review B, 2011, 84, .	1.1	42
79	Evidence for spin mixing in holmium thin film and crystal samples. Physical Review B, 2011, 83, .	1.1	26
80	Structural and Dielectric Properties of SnTiO₃, a Putative Ferroelectric. Crystal Growth and Design, 2011, 11, 1422-1426.	1.4	34
81	Depairing critical current achieved in superconducting thin films with through-thickness arrays of artificial pinning centers. Superconductor Science and Technology, 2011, 24, 055017.	1.8	15
82	Strong Flux Pinning by Magnetic Interlayers Compatible With ${m YBa}_{2}{m Cu}_{3}{m O}_{7-delta}$. IEEE Transactions on Applied Superconductivity, 2011, 21, 3159-3161.	1.1	2
83	Spin-filter Josephson junctions. Nature Materials, 2011, 10, 849-852.	13.3	182
84	Visualizing the ac magnetic susceptibility of superconducting films via magneto-optical imaging. Physical Review B, 2011, 84, .	1.1	27
85	Nanopillar junctions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3198-3213.	1.6	10
86	Strain dependent selection of spin-slip phases in sputter deposited thin-film epitaxial holmium. Journal of Physics Condensed Matter, 2011, 23, 416006.	0.7	9
87	Structural evolution and competing magnetic orders in polycrystalline GdN films. Physical Review B, 2011, 83, .	1.1	37
88	Influence of SrTiO3 substrate miscut angle on the transport properties of LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2011, 99, .	1.5	11
89	Magnetic-coupling-dependent spin-triplet supercurrents in helimagnet/ferromagnet Josephson junctions. Physical Review B, 2011, 84, .	1.1	41
90	Optimized transport properties of LaAlO₃SrTiO₃heterointerfaces by variation of pulsed laser fluence. Journal of Physics Condensed Matter, 2011, 23, 305002.	0.7	21

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91	Magnetic exchange hardening in polycrystalline GdN thin films. Journal of Physics Condensed Matter, 2010, 22, 302003.	0.7	9
92	Controlled Injection of Spin-Triplet Supercurrents into a Strong Ferromagnet. Science, 2010, 329, 59-61.	6.0	457
93	Influence of doping at the nanoscale at LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2010, 97, 072110.	1.5	29
94	Suppression of flux avalanches in superconducting films by electromagnetic braking. Applied Physics Letters, 2010, 96, .	1.5	33
95	Phase periodic conductance oscillations at subgap Andreev resonances in Nbâ€“Alâ€“AlOxâ€“Alâ€“Nb tunnel junctions. Applied Physics Letters, 2010, 97, .	1.5	2
96	Spin-Orbit Strength Driven Crossover between Intrinsic and Extrinsic Mechanisms of the Anomalous Hall Effect in the Epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi><mml:msub><mml:mn>1</mml:mn><mml:mn>0</mml:mn></mml:msub></mml:math>-Ordered Ferromagnets FePd and FePt. Physical Review Letters, 2010, 104, 076402.	2.9	86
97	Origin of magnetism in La and Fe doped SrTiO3â˜Î´ films. Journal of Applied Physics, 2010, 108, 123912.	1.1	20
98	Thickness dependence and the role of spin transfer torque in nonlinear giant magnetoresistance of permalloy dual spin valves. Physical Review B, 2010, 82, .	1.1	6
99	Enhanced Supercurrents in Josephson Junctions Containing Nonparallel Ferromagnetic Domains. Physical Review Letters, 2010, 104, 207001.	2.9	88
100	Estimating the spin diffusion length of semiconducting Indium Tin Oxide using Co/Indium Tin Oxide/Co spin valve junctions. Applied Physics Letters, 2010, 96, .	1.5	7
101	Enhanced critical current in YBa₂Cu₃O_{7â˜Î´}thin films through pinning by ferromagnetic YFeO₃nanoparticles. Superconductor Science and Technology, 2010, 23, 045019.	1.8	35
102	Strain dependent defect mediated ferromagnetism in Mn-doped and undoped ZnO thin films. Journal of Applied Physics, 2010, 108, .	1.1	20
103	Origin of magnetism in cobalt-doped indium tin oxide thin films. Physical Review B, 2010, 82, .	1.1	26
104	Vortex dynamics in thin films of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>three-dimensional nanoscale patterns. Physical Review B, 2009, 79, .	1.1	10
105	Strong ferromagnetic Josephson devices with optimized magnetism. Applied Physics Letters, 2009, 95, .	1.5	24
106	Controlling the exchange bias in multiferroic BiFeO3 and NiFe bilayers. Journal of Applied Physics, 2009, 106, .	1.1	41
107	Crossover Induced by Spin-Density-Wave Interference in the Coherence of Singlet Electron Pairs in Cr. Physical Review Letters, 2009, 103, 207002.	2.9	4
108	Critical current of a Josephson junction containing a conical magnet. Physical Review B, 2009, 79, .	1.1	44

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109	Charge Confinement and Doping at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi Physical Review Letters, 2009, 103, 166802.	2.9	64
110	Reduction in critical current of current induced switching in an inhomogeneous nanomagnet. Applied Physics Letters, 2009, 94, 122511.	1.5	2
111	Delta-doped LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2009, 94, .	1.5	35
112	Competing magnetic anisotropies in an antiferromagnet-ferromagnet-antiferromagnet trilayer. Journal of Applied Physics, 2009, 106, .	1.1	8
113	Ferromagnetism in Co-doped (La,Sr)TiO₃. New Journal of Physics, 2009, 11, 073042.	1.2	14
114	Electrical and magnetic properties of La_{0.35}Sr_{0.65}Ti_{1â^'x}Fe_xO₃thin films. Journal of Physics Condensed Matter, 2009, 21, 426003.	0.7	7
115	Superconductorâ€“ferromagnet nanocomposites created by co-deposition of niobium and dysprosium. Superconductor Science and Technology, 2009, 22, 075001.	1.8	3
116	The Materials Science of Functional Oxide Thin Films. Advanced Materials, 2009, 21, 3827-3839.	11.1	66
117	Sudden critical current drops induced in S/F structures. European Physical Journal B, 2009, 68, 73-77.	0.6	8
118	Critical current enhancement by Lorentz force reduction in superconductorâ€“ferromagnet nanocomposites. Superconductor Science and Technology, 2009, 22, 025017.	1.8	52
119	Nonlinear Giant Magnetoresistance in Dual Spin Valves. Physical Review Letters, 2009, 103, 237203.	2.9	19
120	Polyimide micro-channel arrays for peripheral nerve regenerative implants. Sensors and Actuators A: Physical, 2008, 147, 456-463.	2.0	53
121	Strain control and spontaneous phase ordering in vertical nanocomposite heteroepitaxial thin films. Nature Materials, 2008, 7, 314-320.	13.3	334
122	Vortex Breaking and Cutting in Type II Superconductors. Physical Review Letters, 2008, 101, 097002.	2.9	13
123	High throughput thin film materials science. Materials Science and Technology, 2008, 24, 757-770.	0.8	46
124	Boundaries of the instability region on theHTdiagram of Nb thin films. Superconductor Science and Technology, 2008, 21, 045018.	1.8	20
125	Structural and functional analysis of nanopillar spin electronic devices fabricated by 3D focused ion beam lithography. Nanotechnology, 2008, 19, 485305.	1.3	19
126	Flux-flow behaviors on a Bi2Sr2CaCu2O8+Î´ (Bi-2212) stack. Journal of Applied Physics, 2008, 103, 07C716.	1.1	5

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127	Exchange bias and fourfold magnetic anisotropy in Permalloy thin film on epitaxial hematite antiferromagnet. Journal of Applied Physics, 2008, 103, 053911.	1.1	9
128	Interface properties of Pbâˆ•InAs planar structures for Andreev spectroscopy. Applied Physics Letters, 2008, 92, .	1.5	8
129	Spin transfer switching and low-field precession in exchange-biased spin valve nanopillars. Applied Physics Letters, 2008, 92, .	1.5	8
130	Frustrated magnetic response of a superconducting Nb film with a square lattice of columnar defects. Journal of Physics: Conference Series, 2008, 97, 012301.	0.3	1
131	Transport and Magnetic Properties of Strong Ferromagnetic Pi-Junctions. IEEE Transactions on Applied Superconductivity, 2007, 17, 641-644.	1.1	6
132	Exchange bias in bilayers based on the ferroelectric antiferromagnet BiFeO3. Philosophical Magazine Letters, 2007, 87, 175-181.	0.5	27
133	Electrical characterization of MgO tunnel barriers grown on InAs (001) epilayers. Applied Physics Letters, 2007, 91, 122106.	1.5	2
134	Zero to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>transition in superconductor-ferromagnet-superconductor junctions. Physical Review B, 2007, 76, .	1.1	99
135	Vortex deformation and breaking in superconductors: a microscopic description. Philosophical Magazine, 2007, 87, 4359-4381.	0.7	5
136	Hysteretic Vortex Pinning in Superconductor-Ferromagnet Nanocomposites. Physical Review Letters, 2007, 98, 117003.	2.9	45
137	Exchange Bias and Blocking Temperature inCo/FeMn/CuNiTrilayers. Physical Review Letters, 2007, 98, 217202.	2.9	48
138	Magnetic vortex pinning in superconductor/ferromagnet nanocomposites. Superconductor Science and Technology, 2007, 20, S136-S140.	1.8	9
139	Post-deposition atomic terraces growth of ZnO thin films deposited on epi-GaN templates. Applied Surface Science, 2007, 253, 9185-9190.	3.1	1
140	0-Ï€ oscillations in nanostructured Nb/Fe/Nb Josephson junctions. European Physical Journal B, 2007, 58, 123-126.	0.6	23
141	Planar Andreev Spectroscopy in InAs. AIP Conference Proceedings, 2007, , .	0.3	1
142	Temperature dependent magnetization in Cr-doped CdTe crystals. Applied Physics Letters, 2006, 88, 172101.	1.5	26
143	Second derivative Langmuir probe diagnostics of gas discharge plasma at intermediate pressures (review article). Journal of Physics: Conference Series, 2006, 44, 60-69.	0.3	16
144	Critical Current Oscillations in Strong FerromagneticÏ€Junctions. Physical Review Letters, 2006, 97, 177003.	2.9	201

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145	Growth and Characterization of BiFeO3 Film for Novel Device Applications. Ferroelectrics, 2006, 333, 157-163.	0.3	12
146	Vortex Cutting in YBa2Cu3O7-Î´. Journal of Physics: Conference Series, 2006, 43, 627-630.	0.3	2
147	Properties of submicron [001] tilt symmetric and asymmetric 45Â° bicrystal grain boundary junctions. Journal of Physics: Conference Series, 2006, 43, 1163-1166.	0.3	0
148	Pulsed Laser Deposition of SrBi2Ta2O9 Thin Films on Si Substrate. Plasma Processes and Polymers, 2006, 3, 241-247.	1.6	1
149	Compensating for bias. Nature Materials, 2006, 5, 87-88.	13.3	15
150	Epitaxial Growth of Vertically Aligned and Branched Single-Crystalline Tin-Doped Indium Oxide Nanowire Arrays. Advanced Materials, 2006, 18, 234-238.	11.1	124
151	Dielectric characterization of strontium titanate thin films using Josephson-junction-based on-chip resonators. Superconductor Science and Technology, 2006, 19, 427-432.	1.8	7
152	Multiple-barrier and nanoscale superconducting devices. Superconductor Science and Technology, 2006, 19, S132-S137.	1.8	14
153	Crossover between Channeling and Pinning at Twin Boundaries inYBa2Cu3O7Thin Films. Physical Review Letters, 2006, 97, 257002.	2.9	45
154	Prospects for detection of spin accumulation using submicron planar Andreev array spectroscopy. Applied Physics Letters, 2006, 89, 262505.	1.5	6
155	Universal time relaxation behavior of the exchange bias in ferromagnetic/antiferromagnetic bilayers. Journal of Applied Physics, 2006, 99, 033910.	1.1	17
156	Structural and magnetic properties of V-doped AlN thin films. Journal of Applied Physics, 2006, 100, 083905.	1.1	22
157	Stray-field effects in submicronYBa2Cu3O7â^'xbicrystal grain boundary junctions. Physical Review B, 2006, 73, .	1.1	3
158	Synthesis, Structure, and Properties of Two New Ruddlesdenâ€"Popper Phase Analogues of SFMO (Sr2FeMoO6).. ChemInform, 2005, 36, no.	0.1	0
159	Focused ion beam fabrication and properties of nanoscale Josephson junctions for sensors and other applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1455-1462.	0.8	1
160	Controlling the exchange interaction using the spin-flip transition of antiferromagnetic spins in Ni81Fe19â^•Î±-Fe2O3. Journal of Applied Physics, 2005, 97, 10K101.	1.1	5
161	Local enhancement of the upper critical field in niobium point contacts. Superconductor Science and Technology, 2005, 18, 1176-1178.	1.8	5
162	Strong influence of boron precursor powder on the critical current density of MgB2. Superconductor Science and Technology, 2005, 18, 1473-1477.	1.8	92

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163	Modulation of the dc Josephson current in pseudo-spin-valve Josephson multilayers. Superconductor Science and Technology, 2005, 18, 921-926.	1.8	6
164	The effect of oxygenation on the superconducting properties of MgB2 thin films. Applied Physics Letters, 2005, 86, 022502.	1.5	14
165	Competing functionality in multiferroic YMnO3. Applied Physics Letters, 2005, 87, 252504.	1.5	52
166	Evidence of midgap-state-mediated transport in 45Â° symmetric [001] tiltYBa2Cu3O7âˆ'xbicrystal grain-boundary junctions. Physical Review B, 2005, 71, .	1.1	46
167	Controlling the exchange interaction using the spin-flip transition of antiferromagnetic spins inNi81Fe19âˆ•Î±â€Fe2O3. Physical Review B, 2005, 71, .	1.1	23
168	Temperature dependence of density of states near the Fermi level in a strain-free epitaxial film of the hole-doped manganiteLa0.7Ca0.3MnO3. Physical Review B, 2005, 71, .	1.1	39
169	Correlation of the exchange interaction inNi81Fe19âˆ•Cr2O3bilayers with the antiferromagnetic spin configuration. Physical Review B, 2005, 72, .	1.1	31
170	Normal-state properties of high-angle grain boundaries in(Y,Ca)Ba2Cu3O7âˆ'Î´. Physical Review B, 2005, 71, .	1.1	6
171	Absence of spin scattering of in-plane spring domain walls. Physical Review B, 2005, 71, .	1.1	4
172	Benefits of current percolation in superconducting coated conductors. Applied Physics Letters, 2005, 87, 162507.	1.5	18
173	Characteristics of strong ferromagnetic Josephson junctions with epitaxial barriers. Physical Review B, 2005, 71, .	1.1	62
174	Epitaxial, ferromagnetic Cu2âˆ'xMnxO films on (001) Si by near-room-temperature electrodeposition. Applied Physics Letters, 2005, 87, 222108.	1.5	23
175	Current-perpendicular-to-plane giant magnetoresistance in submicron pseudo-spin-valve devices. Physical Review B, 2005, 72, .	1.1	7
176	In situmagnetoresistance measurements during nanopatterning of pseudo-spin-valve structures. Journal of Applied Physics, 2005, 97, 054302.	1.1	6
177	Study of the size dependence of exchange bias using in situ magnetoresistance measurements. Journal of Applied Physics, 2005, 97, 10C518.	1.1	1
178	Second derivative Langmuir probe diagnostics of Ar/O2gas discharge for DC YBCO-124 sputtering. Plasma Sources Science and Technology, 2005, 14, 184-190.	1.3	10
179	Greatly reduced leakage current and conduction mechanism in aliovalent-ion-doped BiFeO3. Applied Physics Letters, 2005, 86, 062903.	1.5	959
180	Room temperature ferromagnetism in bulk Mn-Doped Cu[sub 2]O. Applied Physics Letters, 2005, 86, 072514.	1.5	112

#	Article	IF	Citations
181	Interaction between exchange-bias systems inNi80Fe20â^•Fe50Mn50â^•Cotrilayers. Physical Review B, 2005, 72, .	1.1	20
182	Scanning Raman Spectroscopy for Characterizing Compositionally Spread Films. ACS Combinatorial Science, 2005, 7, 85-89.	3.3	14
183	Cation Size Variance Effects in Magnetoresistive Sr2FeMoO6Double Perovskites. Chemistry of Materials, 2005, 17, 176-180.	3.2	29
184	Synthesis, Structure, and Properties of Two New Ruddlesdenâ”Popper Phase Analogues of SFMO (Sr2FeMoO6). Chemistry of Materials, 2005, 17, 1792-1796.	3.2	15
185	High-resolution x-ray diffraction and transmission electron microscopy of multiferroic BiFeO[sub 3] films. Applied Physics Letters, 2005, 86, 071913.	1.5	104
186	LaxA1ÂxMnO3(A = Sr,Ca)/Y Ba2Cu3O7ÂÂsuperlattices deposited by the ÂeclipseÂ pulsed laser deposition technique. Superconductor Science and Technology, 2004, 17, 624-629.	1.8	7
187	In situfabrication of a cross-bridge Kelvin resistor structure by focused ion beam microscopy. Nanotechnology, 2004, 15, 786-789.	1.3	11
188	Enhancement of critical current density in low level Al-doped MgB2. Superconductor Science and Technology, 2004, 17, 1093-1096.	1.8	56
189	Diagnostics of sputtering plasma variations affecting Yâ€“Baâ€“Cuâ€“O thin film growth and properties. Superconductor Science and Technology, 2004, 17, S465-S472.	1.8	3
190	Midgap state-based Ï€-junctions for digital applications. Applied Physics Letters, 2004, 85, 1202-1204.	1.5	25
191	Perpendicular magnetic anisotropy and structural properties of NiCu/Cu multilayers. Journal of Applied Physics, 2004, 96, 512-518.	1.1	34
192	Controllable Josephson current through a pseudospin-valve structure. Applied Physics Letters, 2004, 84, 1153-1155.	1.5	90
193	Critical currents in vicinalYBa2Cu3O7â^'Î´films. Physical Review B, 2004, 70, .	1.1	29
194	Josephson fluxon flow and phase diffusion in thin-film intrinsic Josephson junctions. Journal of Applied Physics, 2004, 95, 4941-4948.	1.1	16
195	Submicron YBa2Cu3O7Âxbicrystal grain boundary junctions by focused ion beam. Superconductor Science and Technology, 2004, 17, 287-290.	1.8	10
196	Mode locking of InGaAs quantum dot lasers. , 2004, , .		3
197	Biaxial strain induced electrical inhomogenities and phase separation in the ferromagnetic metallic phase in thin films of La0.7Ca0.3MnO3: A scanning tunneling potentiometry/spectroscopy study.. Materials Research Society Symposia Proceedings, 2004, 838, 145.	0.1	0
198	Oxygen assisted deposition of Sr2FeMoO6 thin films on SrTiO3(100). Journal of Magnetism and Magnetic Materials, 2004, 269, 101-105.	1.0	42

#	Article	IF	Citations
199	Epitaxial growth of BiFeO3 thin films by LPE and solâ€“gel methods. Journal of Magnetism and Magnetic Materials, 2004, 283, 415-421.	1.0	46
200	Epitaxial and oriented YMnO3 film growth by pulsed laser deposition. Journal of Crystal Growth, 2004, 267, 548-553.	0.7	83
201	High Curie temperatures in ferromagnetic Cr-doped AlN thin films. Applied Physics Letters, 2004, 84, 5004-5006.	1.5	124
202	The normal-state resistivity of grain boundaries in YBa2Cu3O7â˜Î´. Applied Physics Letters, 2004, 84, 4089-4091.	1.5	11
203	Transport properties of sharp antiferromagnetic boundaries in Gd/Fe multilayers. Physical Review B, 2004, 69, .	1.1	17
204	Mode-locked quantum dot lasers for picosecond pulse generation. , 2004, 5365, 107.		4
205	Novel single-mode laser operation using 2D photonic crystal. , 2004, , .		0
206	Focused ion beam fabrication of silicon print masters. Nanotechnology, 2003, 14, 220-223.	1.3	58
207	Conduction and magnetoresistance in doped manganite grain boundaries. Applied Physics Letters, 2003, 82, 2670-2672.	1.5	14
208	Proximity and Josephson effects in superconductor/antiferromagneticNb/Î³â˜Fe50Mn50heterostructures. Physical Review B, 2003, 68, .	1.1	44
209	Decoupling of a current-biased intrinsic Josephson junction from its environment. Physical Review B, 2003, 67, .	1.1	16
210	Corbino geometry Josephson junction. Physical Review B, 2003, 67, .	1.1	7
211	Nonlinear electrical transport through artificial grain-boundary junctions inLa0.7Ca0.3MnO3epitaxial thin films. Physical Review B, 2003, 68, .	1.1	46
212	Interaction between ferromagnetic/antiferromagnetic systems across a common antiferromagnetic spacer. Journal of Applied Physics, 2003, 94, 7373-7375.	1.1	13
213	Disorder-induced collapse of the electron-phonon coupling inMgB2observed by Raman spectroscopy. Physical Review B, 2003, 68, .	1.1	27
214	Effect of strain on the electrical conduction in epitaxial films ofLa0.7Ca0.3MnO3. Physical Review B, 2003, 67, .	1.1	49
215	Magnetoresistance in a Constricted Domain Wall. Physical Review Letters, 2003, 90, 027201.	2.9	44
216	Crossing lattices in thin films of isotropic superconductors. Physical Review B, 2003, 67, .	1.1	2

#	Article	IF	Citations
217	Critical Current ofYBa2Cu3O7â^'Î´Low-Angle Grain Boundaries. Physical Review Letters, 2003, 90, 247006.	2.9	70
218	Spin- and charge-modulated trilayer magnetic junctions: La0.7Ca0.3MnO3/La0.45Ca0.55MnO3/La0.7Ca0.3MnO3. Journal of Physics Condensed Matter, 2003, 15, 5243-5251.	0.7	24
219	The microwave surface impedance of MgB2thin films. Superconductor Science and Technology, 2003, 16, 1-6.	1.8	29
220	Fabrication of nanoscale heterostructure devices with a focused ion beam microscope. Nanotechnology, 2003, 14, 630-632.	1.3	63
221	MgB2junctions and SQUIDs fabricated by focused ion beam. Superconductor Science and Technology, 2003, 16, 254-259.	1.8	3
222	Hot phonon controlled-junction superconducting quantum interference device. Superconductor Science and Technology, 2003, 16, 1544-1549.	1.8	2
223	Magnetic domain structure and lattice distortions in manganite films under tensile strain. Journal of Applied Physics, 2003, 93, 8322-8324.	1.1	20
224	Local mapping of strain at grain boundaries in colossal magnetoresistive films using x-ray microdiffraction. Journal of Applied Physics, 2002, 91, 7742.	1.1	42
225	Realization and properties of YBa2Cu3O7â^'Î´Josephson junctions by metal masked ion damage technique. Applied Physics Letters, 2002, 80, 814-816.	1.5	29
226	Magnetization reversal probed by spin-polarized tunneling. Applied Physics Letters, 2002, 80, 2722-2724.	1.5	13
227	Directly coupled superconducting quantum interference device magnetometer fabricated in magnesium diboride by focused ion beam. Applied Physics Letters, 2002, 81, 102-104.	1.5	33
228	Microwave surface resistance of MgB2. Applied Physics Letters, 2002, 80, 2347-2349.	1.5	29
229	Realization and properties of MgB2 metal-masked ion damage junctions. Applied Physics Letters, 2002, 81, 3600-3602.	1.5	16
230	In situ magnetoresistance measurements during patterning of spin valve devices. Journal of Applied Physics, 2002, 91, 8575.	1.1	4
231	Effective vortex pinning in MgB2thin films. Superconductor Science and Technology, 2002, 15, 1392-1397.	1.8	8
232	High-performance ferroelectric and magnetoresistive materials for next-generation thermal detector arrays. , 2002, 4795, 88.		7
233	Assessment of colossal magnetoresistive manganite thin films for infrared detector applications. , 2002, , .		0
234	A scanning tunneling microscopy and potentiometry study of epitaxial thin films of La0.7Ca0.3MnO3. Materials Research Society Symposia Proceedings, 2002, 738, 7211.	0.1	0

#	Article	IF	Citations
235	Development of structural, magnetic, and transport properties in NiFe/Co-based top spin valve: Studies by sequential addition of constituent layers. Journal of Applied Physics, 2002, 91, 8572.	1.1	3
236	Development of an integrated magnetic sensor with linear output based on spin valves. Journal of Applied Physics, 2002, 91, 8578.	1.1	3
237	Monte Carlo simulations of energetic proton beam irradiation damage defect productions in YBCO thin films with Au masks. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 189-195.	0.6	3
238	Asymmetry modulated SQUIDs made by direct focused ion beam milling. Physica C: Superconductivity and Its Applications, 2002, 368, 241-245.	0.6	4
239	Nanoscale superconductorâ€“normal metalâ€“superconductor junctions fabricated by focused ion beam. Physica C: Superconductivity and Its Applications, 2002, 372-376, 14-17.	0.6	4
240	Optimisation of masked ion irradiation damage profiles in YBCO thin films by Monte Carlo simulation. Physica C: Superconductivity and Its Applications, 2002, 372-376, 55-58.	0.6	1
241	High-Resolution Contact Printing with Dendrimers. Nano Letters, 2002, 2, 347-349.	4.5	62
242	In-situDeposition of Superconducting MgB2 Films. Materials Research Society Symposia Proceedings, 2001, 689, 1.	0.1	0
243	Growth of niobium nitride/aluminium nitride trilayers and multilayers. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 2317-2335.	0.8	9
244	Nanofabricated SNS junction series arrays in superconductor-normal metal bilayers. Superconductor Science and Technology, 2001, 14, 1086-1089.	1.8	5
245	Patterning ferromagnetism in Ni80Fe20 films via Ga+ ion irradiation. Applied Physics Letters, 2001, 78, 1589-1591.	1.5	63
246	Planar superconductor-normal-superconductor Josephson junctions in MgB2. Applied Physics Letters, 2001, 79, 3464-3466.	1.5	74
247	Dependence on film thickness of grain boundary low-field magnetoresistance in thin films of La0.7Ca0.3MnO3. Journal of Applied Physics, 2001, 89, 6970-6972.	1.1	7
248	Magnetic anisotropy of thin film La0.7Ca0.3MnO3 on untwinned paramagnetic NdGaO3 (001). Journal of Applied Physics, 2001, 89, 3388-3392.	1.1	40
249	Growth of strongly biaxially aligned MgB2 thin films on sapphire by postannealing of amorphous precursors. Applied Physics Letters, 2001, 79, 4001-4003.	1.5	40
250	Structure and chemistry of manganite based tunnel junctions. Journal of Applied Physics, 2001, 89, 6757-6759.	1.1	6
251	2D Monte Carlo simulation of proton implantation of superconducting YBa2Cu3O7â^' thin films through high aspect ratio Nb masks. Nuclear Instruments & Methods in Physics Research B, 2000, 164-165, 979-985.	0.6	10
252	Real time resistometric depth monitoring in the focused ion beam. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 761.	1.6	23

#	Article	IF	Citations
253	Asymmetry modulated SQUIDS. Superconductor Science and Technology, 2000, 13, 983-988.	1.8	6
254	Alternating current Josephson effect in intrinsic Josephson bridges in Tl2Ba2CaCu2O8 thin films. Applied Physics Letters, 2000, 76, 3603-3605.	1.5	29
255	Interface chemistry and structure of multiply oxidized barrier spin-tunnel junctions. Journal of Applied Physics, 2000, 87, 5200-5202.	1.1	18
256	Effects of Interlayer Coupling on the Irreversibility Lines ofNbN/AlNSuperconducting Multilayers. Physical Review Letters, 2000, 85, 4168-4171.	2.9	15
257	Modeling of magnetic tunnel junctions with multidomain ferromagnetic layers. Physical Review B, 2000, 62, 5821-5828.	1.1	5
258	Coherent magnetic reversal in half-metallic manganite tunnel junctions. Applied Physics Letters, 2000, 77, 3803-3805.	1.5	33
259	Transfer function and noise properties of YBa2Cu3O7â^'Î´ direct-current superconducting-quantum-interference-device magnetometers with resistively shunted inductances. Applied Physics Letters, 2000, 77, 567-569.	1.5	8
260	Mesoscale magnetism at the grain boundaries in colossal magnetoresistive films. Physical Review B, 2000, 63, .	1.1	45
261	Influence of Mnâ€“O bond length on carrier localization in La1â^'x (Ca,Sr)x MnO3, where x = 0.28 to 0.375. Journal of Materials Research, 2000, 15, 1167-1175.	1.2	1
262	Very large magnetoresistance and coherent switching in half-metallic manganite tunnel junctions. Physical Review B, 2000, 61, R14905-R14908.	1.1	146
263	Temperature dependent phenomena in La1â^'xSrxMnO3 films studied by magnetic force microscopy. Journal of Applied Physics, 2000, 87, 6743-6745.	1.1	27
264	Fabrication of Josephson superconductor-normal metal-superconductor series arrays using a focused ion beam. Superconductor Science and Technology, 1999, 12, 871-873.	1.8	2
265	Measurements of the dielectric properties of strontium titanate at submillimetre wavelengths using Josephson junction driven oscillators. Superconductor Science and Technology, 1999, 12, 819-822.	1.8	2
266	Intrinsic Josephson effects in submicrometre Bi2212 mesas fabricated by using focused ion beam etching. Superconductor Science and Technology, 1999, 12, 1013-1015.	1.8	6
267	Currentâ€“voltage characteristics and electrical transport properties of grain boundaries in La1â^'x(Sr/Ca)xMnO3. Journal of Applied Physics, 1999, 85, 7263-7266.	1.1	50
268	Inhomogeneous transport in heteroepitaxial La0.7Ca0.3MnO3/SrTiO3 multilayers. Applied Physics Letters, 1999, 75, 3689-3691.	1.5	56
269	Strain-induced time-dependent magnetic disorder in ultra-thin La0.7Ca0.3MnO3 films. Journal of Magnetism and Magnetic Materials, 1999, 191, 359-367.	1.0	46
270	Direct writing of low Tc superconductor-normal metal-superconductor junctions using a focused ion beam. Applied Physics Letters, 1999, 75, 262-264.	1.5	31

#	Article	IF	Citations
271	Resistance of a domain wall in La0.7Ca0.3MnO3. Journal of Applied Physics, 1999, 86, 6287-6290.	1.1	65
272	Microstructure modification of silver films deposited by ionized magnetron sputter deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 2891-2895.	0.9	36
273	The Microstructure and Nanoindentation Behaviour of TiN/NbN Multilayers. Materials Research Society Symposia Proceedings, 1999, 594, 9.	0.1	3
274	Magnetotransport and Interface Magnetism in Manganite Heterostructures: Implications for Spin Polarized Tunneling. Materials Research Society Symposia Proceedings, 1999, 602, 3.	0.1	2
275	Magnetoresistance of artificial La0.7Sr0.3MnO3 grain boundaries as a function of misorientation angle. Applied Physics Letters, 1998, 72, 2038-2040.	1.5	126
276	Measurement of the dynamic error rate of a high temperature superconductor rapid single flux quantum comparator. Applied Physics Letters, 1998, 72, 2328-2330.	1.5	12
277	Defect-induced spin disorder and magnetoresistance in single-crystal and polycrystal rare-earth manganite thin films. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1593-1615.	1.6	152
278	High conductance magnetoresistive tunnel junctions with multiply oxidized barrier. Journal of Applied Physics, 1998, 83, 6697-6699.	1.1	21
279	Reentrant metalâ€“insulator-type transition induced by high fluence chromium ion implantation of La0.7Ca0.3MnO3 thin films. Applied Physics Letters, 1998, 73, 1005-1007.	1.5	6
280	Low field magnetotransport in La0.7Sr0.3MnO3 films. Journal of Applied Physics, 1998, 83, 7157-7159.	1.1	17
281	Performance of high-Tc superconducting quantum interference devices with resistively shunted inductances. Applied Physics Letters, 1998, 73, 3929-3931.	1.5	3
282	Strong coupling effects in(Nbâ^'Alâ^'AlOx)2-Nb stacked Josephson junctions. Physical Review B, 1998, 58, 15078-15087.	1.1	14
283	High conductance small area magnetoresistive tunnel junctions. Applied Physics Letters, 1998, 73, 384-386.	1.5	6
284	Transmission electron microscopy and x-ray structural investigation of La_{0.7}Ca_{0.3}MnO₃ thin films. Journal of Materials Research, 1998, 13, 2161-2169.	1.2	34
285	Niobium nitride/aluminum nitride superlattices. , 1998, , .		1
286	Properties of a-axis YBa2Cu3O7-x/PrBa2Cu3O7-x/YBa2Cu3O7-x Trilayer Josephson Junctions on (100) LaSrGaO4. , 1998, , 959-964.		0
287	Proximity coupling in high-TcJosephson junctions produced by focused electron beam irradiation. Physical Review B, 1997, 55, 14600-14609.	1.1	48
288	Voltage responses to optical pulses of unbiased normal and superconducting samples. Applied Physics Letters, 1997, 71, 1415-1417.	1.5	4

#	Article	IF	Citations
289	Electron-beam damaged high-temperature superconductor Josephson junctions. Journal of Applied Physics, 1997, 82, 5612-5632.	1.1	29
290	Effects of Chromium Ion Implantation on the Magneto-Transport Properties of La0.7Ca0.3MnO3 Thin Films. Materials Research Society Symposia Proceedings, 1997, 494, 323.	0.1	0
291	Large low-field magnetoresistance in La0.7Ca0.3MnO3 induced by artificial grain boundaries. Nature, 1997, 387, 266-268.	13.7	433
292	Smaller angles boost colossal effect. Physics World, 1996, 9, 20-21.	0.0	1
293	Epitaxial base layer Nb superconducting tunnel junctions with Ta absorbers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 370, 50-52.	0.7	3
294	Conductance and leakage in superconducting tunnel junctions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2427-2432.	0.9	5
295	Investigation of dc Josephson current distribution in doubleâ€barrier threeâ€terminal devices with a thin middle superconducting layer. Journal of Applied Physics, 1996, 80, 2321-2326.	1.1	6
296	Superconducting proximity effect through high-quality high-conductance tunnel barriers. Physical Review B, 1996, 53, 5683-5687.	1.1	40
297	Fabrication of inâ€plane aligned aâ€axis oriented YBa2Cu3O7â^'x trilayer Josephson junctions. Applied Physics Letters, 1996, 69, 112-114.	1.5	19
298	Two Dimensional Electrons in a Lateral Magnetic Superlattice. Physical Review Letters, 1995, 74, 3009-3012.	2.9	255
299	Postfabrication resistance trimming of a superconducting tunnel junction using a focused ion beam. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 318.	1.6	2
300	Inelastic quasiparticle scattering and multiplication in superconductors. Journal of Applied Physics, 1994, 76, 1105-1110.	1.1	3
301	Quasiparticle trapping and the density of states in superconducting proximity structures. Journal of Applied Physics, 1994, 76, 2368-2375.	1.1	10
302	Ballistic two-dimensional electrons in a random magnetic field. Physical Review B, 1994, 49, 5749-5752.	1.1	49
303	Electronic transport processes and the transition from double to single barrier tunnel junctions. Journal of Applied Physics, 1994, 75, 5171-5176.	1.1	2
304	Surface pinning and Lorentz force dependence of transport critical current in NbTa thin films and heterostructures. Journal of Applied Physics, 1994, 76, 2361-2367.	1.1	8
305	The role of epitaxy in superconducting tunnel junction detectors. Journal of Low Temperature Physics, 1993, 93, 593-598.	0.6	4
306	Design considerations for STJ x-ray detectors. Journal of Low Temperature Physics, 1993, 93, 671-676.	0.6	4

#	Article	IF	Citations
307	Complex magnetic field dependence of critical currents in multiple-stacked tunnel barriers. Superconductor Science and Technology, 1991, 4, 485-487.	1.8	7
308	Non-equilibrium effects in SINIS double tunnel barrier devices. Superconductor Science and Technology, 1991, 4, 430-432.	1.8	2
309	Extreme critical-temperature enhancement of Al by tunneling in Nb/AlOx/Al/AlOx/Nb tunnel junctions. Physical Review Letters, 1991, 66, 220-223.	2.9	71
310	Novel hysteresis effects in Nb/AlOx/Al/AlOx/Nb tunnel junctions. Journal of Applied Physics, 1991, 69, 2376-2381.	1.1	6
311	The Sputter Deposition and Characterisation of High Quality Single Crystal Mo Thin Films. Materials Research Society Symposia Proceedings, 1990, 202, 427.	0.1	2
312	The Resistive State of a Random Weak Link Network. , 1990, , 11-19.		0
313	Direct observation of atomic planes in epitaxial multilayers by anodization spectroscopy. Applied Physics Letters, 1989, 55, 732-734.	1.5	11
314	Microstructure effects on electronic properties of Nb/Al2O3/Nb tunnel junctions. Journal of Applied Physics, 1988, 64, 6396-6405.	1.1	22
315	Fabrication and properties of superconducting device structures in YBa2Cu3O7-xthin films. Journal Physics D: Applied Physics, 1987, 20, 1330-1335.	1.3	19
316	Effects of fabrication conditions on the properties of SIS tunnel junctions. Journal Physics D: Applied Physics, 1987, 20, 1159-1167.	1.3	10
317	The Deposition, Fabrication and Characteristics of High Critical Temperature Devices. Materials Research Society Symposia Proceedings, 1987, 99, 197.	0.1	2
318	Flux vortex dynamics and electric fields in matched pinning systems. Journal of Low Temperature Physics, 1987, 68, 335-352.	0.6	14
319	High superconducting transition temperatures in sputter-deposited YBaCuO thin films. Nature, 1987, 326, 857-859.	13.7	62
320	Critical cutting force between flux vortices in a type-II superconductor. Physical Review B, 1986, 33, 5131-5133.	1.1	23
321	Dynamic vortex pinning in a type II superconductor. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1985, 51, 421-438.	0.6	5
322	Critical currents and flux cutting in thin superconducting films. Applied Physics Letters, 1985, 46, 1181-1183.	1.5	11