C Bell

List of Publications by Year
in descending order

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93	5,351	94433	82547
papers	citations	37 h-index	72 g-index

96	96	96	5247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Universal Bound to the Amplitude of the Vortex Nernst Signal in Superconductors. Physical Review Letters, 2021, 126, 077001.	7.8	11
2	Magnetic anisotropy in Fe/U and Ni/U bilayers. Physical Review B, 2021, 103, .	3.2	1
3	Tuneable correlated disorder in alloys. Physical Review Materials, 2021, 5, .	2.4	16
4	Strain Tuning in Complex Oxide Epitaxial Films Using an Ultrathin Strontium Aluminate Buffer Layer. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700339.	2.4	13
5	Atomically engineered epitaxial anatase TiO2 metal-semiconductor field-effect transistors. Applied Physics Letters, 2018, 112, .	3.3	5
6	Inhomogeneous barrier heights at dipole-controlled SrRuO3/Nb:SrTiO3 Schottky junctions. Applied Physics Letters, 2018, 113, 221603.	3.3	7
7	Observation of signatures of subresolution defects in two-dimensional superconductors with a scanning SQUID. Physical Review B, 2018, 98, .	3.2	2
8	Dielectric collapse at the LaAlO3/SrTiO3 (001) heterointerface under applied electric field. Scientific Reports, 2017, 7, 9516.	3.3	6
9	Imaging and tuning polarity at SrTiO3 domainÂwalls. Nature Materials, 2017, 16, 1203-1208.	27.5	68
10	Variation in superconducting transition temperature due to tetragonal domains in two-dimensionally doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2016, 94, .	3.2	30
11	Low temperature magneto-morphological characterisation of coronene and the resolution of previously observed unexplained phenomena. Scientific Reports, 2016, 6, 38696.	3.3	8
12	Anisotropic Transport at the LaAlO₃/SrTiO₃ Interface Explained by Microscopic Imaging of Channel-Flow over SrTiO₃ Domains. ACS Applied Materials & Interfaces, 2016, 8, 12514-12519.	8.0	42
13	Dual-Gate Modulation of Carrier Density and Disorder in an Oxide Two-Dimensional Electron System. Nano Letters, 2016, 16, 6130-6136.	9.1	45
14	An unforeseen polymorph of coronene by the application of magnetic fields during crystal growth. Nature Communications, 2016, 7, 11555.	12.8	68
15	Tuning Band Alignment Using Interface Dipoles at the Pt/Anatase TiO₂ Interface. Advanced Materials, 2015, 27, 7458-7461.	21.0	14
16	Enhanced Electrical Transparency by Ultrathin LaAlO3 Insertion at Oxide Metal/Semiconductor Heterointerfaces. Nano Letters, 2015, 15, 1622-1626.	9.1	24
17	Optical Study of Tetragonal Domains in LaAlO3/SrTiO3. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1017-1020.	1.8	16
18	De-constricting the heat. Superconductor Science and Technology, 2015, 28, 080501.	3.5	1

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19	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. Nature Communications, 2015, 6, 6759.	12.8	58
20	Inelastic x-ray scattering in heterostructures: electronic excitations in LaAlO₃/SrTiO₃. Journal of Physics Condensed Matter, 2015, 27, 335501.	1.8	8
21	Quantum longitudinal and Hall transport at the LaAlO3/SrTiO3 interface at low electron densities. Solid State Communications, 2014, 197, 25-29.	1.9	38
22	Spin-dependent transport across Co/LaAlO3/SrTiO3 heterojunctions. Applied Physics Letters, 2014, 105, 032406.	3.3	34
23	Atomically Engineered Metalâ€“Insulator Transition at the TiO₂/LaAlO₃ Heterointerface. Nano Letters, 2014, 14, 6743-6746.	9.1	24
24	Enhancing Electron Mobility at the LaAlO₃/SrTiO₃ Interface by Surface Control. Advanced Materials, 2013, 25, 4735-4738.	21.0	71
25	Detection of Berryâ€™s Phase in a Bulk Rashba Semiconductor. Science, 2013, 342, 1490-1493.	12.6	244
26	Shubnikovâ€“de Haas oscillations in the bulk Rashba semiconductor BiTeI. Physical Review B, 2013, 87, .	3.2	29
27	Locally enhanced conductivity due to the tetragonal domain structure in LaAlO3/SrTiO3 heterointerfaces. Nature Materials, 2013, 12, 1091-1095.	27.5	172
28	Titanium dx y ferromagnetism at the LaAlO3/SrTiO3Âinterface. Nature Materials, 2013, 12, 703-706.	27.5	303
29	Compositional and gate tuning of the interfacial conductivity in LaAlO3/LaTiO3/SrTiO3 heterostructures. Applied Physics Letters, 2013, 102, .	3.3	19
30	Transistor operation and mobility enhancement in top-gated LaAlO3/SrTiO3 heterostructures. Applied Physics Letters, 2013, 103, .	3.3	64
31	Stoichiometry control of the electronic properties of the LaAlO3/SrTiO3 heterointerface. Applied Physics Letters, 2013, 102, .	3.3	63
32	Tunable coupling of two-dimensional superconductors in bilayer SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>heterostructures. Physical Review B, 2013, 88, .	3.2	6
33	Ar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>-irradiated KTaO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical	3.2	44
34	Single-valley quantum Hall ferromagnet in a dilute Mg<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>O/ZnO	3.2	36
35	Intrinsic spin-orbit coupling in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î´</mml:mi></mml:math>-doped SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>heterostructures. Physical Review B, 2012, 86, .	3.2	49
36	Metal-to-insulator transition in anatase TiO2 thin films induced by growth rate modulation. Applied Physics Letters, 2012, 101, .	3.3	18

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37	Subband Structure of a Two-Dimensional Electron Gas Formed at the Polar Surface of the Strong Spin-Orbit Perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>KTaO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 108, 117602.	7.8	173
38	Gate-tuned superfluid density at the superconducting LaAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>interface. Physical Review B, 2012, 86, .	3.2	94
39	Scanning Probe Manipulation of Magnetism at the LaAlO₃/SrTiO₃ Heterointerface. Nano Letters, 2012, 12, 4055-4059.	9.1	43
40	Magnetotransport effects in polar versus non-polar SrTiO3based heterostructures. Physical Review B, 2012, 86, .	3.2	23
41	Critical thickness for ferromagnetism in LaAlO3/SrTiO3 heterostructures. Nature Communications, 2012, 3, 922.	12.8	186
42	Scanning SQUID susceptometry of a paramagnetic superconductor. Physical Review B, 2012, 85, .	3.2	46
43	Common Origin of the Circular-Dichroism Pattern in Angle-Resolved Photoemission Spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Cu</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Bi</mml:mi><mml:mn> Physical Review Letters, 2011, 107, 077601.	7.8	33
44	Direct imaging of the coexistence of ferromagnetism and superconductivity atÂtheÂLaAlO3/SrTiO3 interface. Nature Physics, 2011, 7, 767-771.	16.7	765
45	Growth Temperature Dependence of the LaAlO₃/SrTiO₃Interfacial Structure. Journal of Physics: Conference Series, 2011, 320, 012074.	0.4	1
46	Electronic structure of the SrTiO₃/LaAlO₃interface revealed by resonant soft x-ray scattering. IOP Conference Series: Materials Science and Engineering, 2011, 24, 012012.	0.6	4
47	Built-in and induced polarization across LaAlO3/SrTiO3 heterojunctions. Nature Physics, 2011, 7, 80-86.	16.7	178
48	Control of electronic conduction at an oxide heterointerface using surface polar adsorbates. Nature Communications, 2011, 2, 494.	12.8	149
49	Effect of the variation of the exchange energy on the superconducting critical temperature of S/F/S trilayers. European Physical Journal B, 2011, 80, 445-449.	1.5	10
50	Tuning the Electron Gas at an Oxide Heterointerface via Free Surface Charges. Advanced Materials, 2011, 23, 1744-1747.	21.0	60
51	Electric field penetration in Au/Nb:SrTiO3 Schottky junctions probed by bias-dependent internal photoemission. Applied Physics Letters, 2011, 98, .	3.3	33
52	Fermi Surface and Superconductivity in Low-Density High-Mobility<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold-italic">Î´</mml:mi></mml:math>-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2011, 107, 106801.	7.8	46
53	Reentrant insulating state in ultrathin manganite films. Applied Physics Letters, 2011, 99, 092513.	3.3	24
54	Structural Comparison of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-Type and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-Type<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	7.8	61

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55	Nanometer-scale epitaxial strain release in perovskite heterostructures using â€œSrAlOxâ€•sliding buffer layers. Applied Physics Letters, 2011, 98, 171901.	3.3	5
56	Enhancing the electron mobility via delta-doping in SrTiO3. Applied Physics Letters, 2010, 97, .	3.3	52
57	Charge Writing at the LaAlO₃/SrTiO₃ Surface. Nano Letters, 2010, 10, 2588-2591.	9.1	107
58	Dramatic mobility enhancements in doped SrTiO3 thin films by defect management. Applied Physics Letters, 2010, 97, .	3.3	88
59	Superconductor/Ferromagnet Hybrids: Bilayers and Spin Switching. Nanoscience and Technology, 2010, , 323-347.	1.5	6
60	Enhanced lattice polarization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> measured using optical second-harmonic generation. Physical Review B, 2009, 80, .	3.2	26
61	Nonmonotonic behavior of the anisotropy coefficient in superconductor-ferromagnet-superconductor trilayers. Physical Review B, 2009, 80, .	3.2	18
62	Dominant Mobility Modulation by the Electric Field Effect 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:mo>/</mml:mo><mml:msub><mml Physical Review Letters, 2009, 103, 226802.	7.8	246
63	Two-dimensional normal-state quantum oscillations in a superconducting heterostructure. Nature, 2009, 462, 487-490.	27.8	222
64	Sudden critical current drops induced in S/F structures. European Physical Journal B, 2009, 68, 73-77.	1.5	8
65	Magnetization rotation in a superconductor/ferromagnet bilayer ring structure. Physical Review B, 2009, 80, .	3.2	1
66	Thickness dependence of the mobility at the LaAlO3/SrTiO3 interface. Applied Physics Letters, 2009, 94, 222111.	3.3	96
67	Resistive transitions in Nb/Cu0.41Ni0.59/Nb trilayers. JETP Letters, 2008, 88, 375-379.	1.4	10
68	Spin Dynamics in a Superconductor-Ferromagnet Proximity System. Physical Review Letters, 2008, 100, 047002.	7.8	83
69	Transport and Magnetic Properties of Strong Ferromagnetic Pi-Junctions. IEEE Transactions on Applied Superconductivity, 2007, 17, 641-644.	1.7	6
70	Depairing current behavior in superconductingNbâˆ•Pd81Ni19bilayers. Physical Review B, 2007, 75, .	3.2	26
71	High-velocity instabilities in the vortex lattice of Nb/permalloy bilayers. Physical Review B, 2007, 76, .	3.2	24
72	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, .	3.2	99

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73	Critical Current Oscillations in Strong FerromagneticÏ€Junctions. Physical Review Letters, 2006, 97, 177003.	7.8	201
74	Electrical transport between epitaxial manganites and carbon nanotubes. Applied Physics Letters, 2006, 88, 083120.	3.3	13
75	Flux-flow-induced giant magnetoresistance in all-amorphous superconductor-ferromagnet hybrids. Physical Review B, 2006, 74, .	3.2	34
76	Magnetoresistance of spin valve structures based on the full Heusler alloy Co2MnSi. Journal of Applied Physics, 2006, 100, 013910.	2.5	7
77	Pseudo spin-valve behavior in oxide ferromagnet/superconductor/ferromagnet trilayers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 313-319.	2.1	10
78	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
79	Modulation of the dc Josephson current in pseudo-spin-valve Josephson multilayers. Superconductor Science and Technology, 2005, 18, 921-926.	3.5	6
80	Giant-Magnetoresistive/Superconducting Contacts and Josephson Junction Devices. IEEE Transactions on Applied Superconductivity, 2005, 15, 904-907.	1.7	0
81	Characteristics of strong ferromagnetic Josephson junctions with epitaxial barriers. Physical Review B, 2005, 71, .	3.2	62
82	Spin Valve Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2005, 15, 908-911.	1.7	4
83	Current-perpendicular-to-plane giant magnetoresistance in submicron pseudo-spin-valve devices. Physical Review B, 2005, 72, .	3.2	7
84	In situfabrication of a cross-bridge Kelvin resistor structure by focused ion beam microscopy. Nanotechnology, 2004, 15, 786-789.	2.6	11
85	Perpendicular magnetic anisotropy and structural properties of NiCu/Cu multilayers. Journal of Applied Physics, 2004, 96, 512-518.	2.5	34
86	Controllable Josephson current through a pseudospin-valve structure. Applied Physics Letters, 2004, 84, 1153-1155.	3.3	90
87	Submicron YBa2Cu3O7Âxbicrystal grain boundary junctions by focused ion beam. Superconductor Science and Technology, 2004, 17, 287-290.	3.5	10
88	Effect of ferromagnetism on superconductivity in manganite/cuprate heterostructures. Physica C: Superconductivity and Its Applications, 2004, 415, 118-124.	1.2	8
89	Transport properties of sharp antiferromagnetic boundaries in Gd/Fe multilayers. Physical Review B, 2004, 69, .	3.2	17
90	Sub-micron thin film intrinsic Josephson junctions. IEEE Transactions on Applied Superconductivity, 2003, 13, 821-824.	1.7	10

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91	Proximity and Josephson effects in superconductor/antiferromagneticNb/Î³â˜Fe50Mn50heterostructures. Physical Review B, 2003, 68, .	3.2	44
92	Fabrication of nanoscale heterostructure devices with a focused ion beam microscope. Nanotechnology, 2003, 14, 630-632.	2.6	63
93	Nanoscale superconductorâ€“normal metalâ€“superconductor junctions fabricated by focused ion beam. Physica C: Superconductivity and Its Applications, 2002, 372-376, 14-17.	1.2	4