C Bell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9630005/publications.pdf

Version: 2024-02-01

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	Direct imaging of the coexistence of ferromagnetism and superconductivity atÂtheÂLaAlO3/SrTiO3 interface. Nature Physics, 2011, 7, 767-771.	16.7	765
2	Titanium dx y ferromagnetism at the LaAlO3/SrTiO3Âinterface. Nature Materials, 2013, 12, 703-706.	27.5	303
3	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><m Physical Review Letters, 2009, 103, 226802.	7.8	246
4	Detection of Berryâ€™s Phase in a Bulk Rashba Semiconductor. Science, 2013, 342, 1490-1493.	12.6	244
5	Two-dimensional normal-state quantum oscillations in a superconducting heterostructure. Nature, 2009, 462, 487-490.	27.8	222
6	Critical Current Oscillations in Strong FerromagneticÏ€Junctions. Physical Review Letters, 2006, 97, 177003.	7.8	201
7	Critical thickness for ferromagnetism in LaAlO3/SrTiO3 heterostructures. Nature Communications, 2012, 3, 922.	12.8	186
8	Built-in and induced polarization across LaAlO3/SrTiO3 heterojunctions. Nature Physics, 2011, 7, 80-86.	16.7	178
9	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
10	Locally enhanced conductivity due to the tetragonal domain structure in LaAlO3/SrTiO3 heterointerfaces. Nature Materials, 2013, 12, 1091-1095.	27.5	172
11	Control of electronic conduction at an oxide heterointerface using surface polar adsorbates. Nature Communications, 2011, 2, 494.	12.8	149
12	Charge Writing at the LaAlO₃/SrTiO₃ Surface. Nano Letters, 2010, 10, 2588-2591.	9.1	107
13	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
14	Thickness dependence of the mobility at the LaAlO3/SrTiO3 interface. Applied Physics Letters, 2009, 94, 222111.	3.3	96
15	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
16	Controllable Josephson current through a pseudospin-valve structure. Applied Physics Letters, 2004, 84, 1153-1155.	3.3	90
17	Dramatic mobility enhancements in doped SrTiO3 thin films by defect management. Applied Physics Letters, 2010, 97, .	3.3	88
18	Spin Dynamics in a Superconductor-Ferromagnet Proximity System. Physical Review Letters, 2008, 100, 047002.	7.8	83

#	Article	IF	Citations
19	Enhancing Electron Mobility at the LaAlO₃/SrTiO₃ Interface by Surface Control. Advanced Materials, 2013, 25, 4735-4738.	21.0	71
20	An unforeseen polymorph of coronene by the application of magnetic fields during crystal growth. Nature Communications, 2016, 7, 11555.	12.8	68
21	Imaging and tuning polarity at SrTiO3 domainÂwalls. Nature Materials, 2017, 16, 1203-1208.	27.5	68
22	Transistor operation and mobility enhancement in top-gated LaAlO3/SrTiO3 heterostructures. Applied Physics Letters, 2013, 103, .	3.3	64
23	Fabrication of nanoscale heterostructure devices with a focused ion beam microscope. Nanotechnology, 2003, 14, 630-632.	2.6	63
24	Stoichiometry control of the electronic properties of the LaAlO3/SrTiO3 heterointerface. Applied Physics Letters, 2013, 102, .	3.3	63
25	Characteristics of strong ferromagnetic Josephson junctions with epitaxial barriers. Physical Review B, 2005, 71, .	3.2	62
26	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
27	Tuning the Electron Gas at an Oxide Heterointerface via Free Surface Charges. Advanced Materials, 2011, 23, 1744-1747.	21.0	60
28	Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces. Nature Communications, 2015, 6, 6759.	12.8	58
29	Enhancing the electron mobility via delta-doping in SrTiO3. Applied Physics Letters, 2010, 97, .	3.3	52
30	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
31	<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
32	Scanning SQUID susceptometry of a paramagnetic superconductor. Physical Review B, 2012, 85, .	3.2	46
33	Dual-Gate Modulation of Carrier Density and Disorder in an Oxide Two-Dimensional Electron System. Nano Letters, 2016, 16, 6130-6136.	9.1	45
34	Proximity and Josephson effects in superconductor/antiferromagneticNb/Î³â^'Fe50Mn50heterostructures. Physical Review B, 2003, 68, .	3.2	44
35	Coexistence of two-dimensional and three-dimensional Shubnikovâ€"de Haas oscillations in 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 Review B, 2013, 88, .	3.2	44
36	Scanning Probe Manipulation of Magnetism at the LaAlO₃/SrTiO₃ Heterointerface. Nano Letters, 2012, 12, 4055-4059.	9.1	43

#	Article	IF	Citations
37	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
38	Quantum longitudinal and Hall transport at the LaAlO3/SrTiO3 interface at low electron densities. Solid State Communications, 2014, 197, 25-29.	1.9	38
39	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:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>O/ZnO strongly correlated two-dimensional electron system. Physical Review B, 2012, 85, .	3.2	36
40	Perpendicular magnetic anisotropy and structural properties of NiCu/Cu multilayers. Journal of Applied Physics, 2004, 96, 512-518.	2.5	34
41	Flux-flow-induced giant magnetoresistance in all-amorphous superconductor-ferromagnet hybrids. Physical Review B, 2006, 74, .	3.2	34
42	Spin-dependent transport across Co/LaAlO3/SrTiO3 heterojunctions. Applied Physics Letters, 2014, 105, 032406.	3.3	34
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	Electric field penetration in Au/Nb:SrTiO3 Schottky junctions probed by bias-dependent internal photoemission. Applied Physics Letters, 2011, 98, .	3.3	33
45	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
46	Shubnikovâ€“de Haas oscillations in the bulk Rashba semiconductor BiTeI. Physical Review B, 2013, 87, .	3.2	29
47	Depairing current behavior in superconductingNbâ•Pd81Ni19bilayers. Physical Review B, 2007, 75, .	3.2	26
48	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:m measured using optical second-harmonic generation. Physical Review B, 2009, 80, .	3.2	26
49	High-velocity instabilities in the vortex lattice of Nb/permalloy bilayers. Physical Review B, 2007, 76, .	3.2	24
50	Reentrant insulating state in ultrathin manganite films. Applied Physics Letters, 2011, 99, 092513.	3.3	24
51	Atomically Engineered Metalâ€“Insulator Transition at the TiO₂/LaAlO₃ Heterointerface. Nano Letters, 2014, 14, 6743-6746.	9.1	24
52	Enhanced Electrical Transparency by Ultrathin LaAlO3 Insertion at Oxide Metal/Semiconductor Heterointerfaces. Nano Letters, 2015, 15, 1622-1626.	9.1	24
53	Magnetotransport effects in polar versus non-polar SrTiO3based heterostructures. Physical Review B, 2012, 86, .	3.2	23
54	Compositional and gate tuning of the interfacial conductivity in LaAlO3/LaTiO3/SrTiO3 heterostructures. Applied Physics Letters, 2013, 102, .	3.3	19

#	Article	IF	Citations
55	Nonmonotonic behavior of the anisotropy coefficient in superconductor-ferromagnet-superconductor trilayers. Physical Review B, 2009, 80, .	3.2	18
56	Metal-to-insulator transition in anatase TiO2 thin films induced by growth rate modulation. Applied Physics Letters, 2012, 101, .	3.3	18
57	Transport properties of sharp antiferromagnetic boundaries in Gd/Fe multilayers. Physical Review B, 2004, 69, .	3.2	17
58	Optical Study of Tetragonal Domains in LaAlO3/SrTiO3. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1017-1020.	1.8	16
59	Tuneable correlated disorder in alloys. Physical Review Materials, 2021, 5, .	2.4	16
60	Tuning Band Alignment Using Interface Dipoles at the Pt/Anatase TiO₂ Interface. Advanced Materials, 2015, 27, 7458-7461.	21.0	14
61	Electrical transport between epitaxial manganites and carbon nanotubes. Applied Physics Letters, 2006, 88, 083120.	3.3	13
62	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
63	In situfabrication of a cross-bridge Kelvin resistor structure by focused ion beam microscopy. Nanotechnology, 2004, 15, 786-789.	2.6	11
64	Universal Bound to the Amplitude of the Vortex Nernst Signal in Superconductors. Physical Review Letters, 2021, 126, 077001.	7.8	11
65	Sub-micron thin film intrinsic Josephson junctions. IEEE Transactions on Applied Superconductivity, 2003, 13, 821-824.	1.7	10
66	Submicron YBa2Cu3O7Âxbicrystal grain boundary junctions by focused ion beam. Superconductor Science and Technology, 2004, 17, 287-290.	3.5	10
67	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
68	Resistive transitions in Nb/Cu0.41Ni0.59/Nb trilayers. JETP Letters, 2008, 88, 375-379.	1.4	10
69	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
70	Effect of ferromagnetism on superconductivity in manganite/cuprate heterostructures. Physica C: Superconductivity and Its Applications, 2004, 415, 118-124.	1.2	8
71	Sudden critical current drops induced in S/F structures. European Physical Journal B, 2009, 68, 73-77.	1.5	8
72	Inelastic x-ray scattering in heterostructures: electronic excitations in LaAlO₃/SrTiO₃. Journal of Physics Condensed Matter, 2015, 27, 335501.	1.8	8

#	Article	IF	Citations
73	Low temperature magneto-morphological characterisation of coronene and the resolution of previously observed unexplained phenomena. Scientific Reports, 2016, 6, 38696.	3.3	8
74	Current-perpendicular-to-plane giant magnetoresistance in submicron pseudo-spin-valve devices. Physical Review B, 2005, 72, .	3.2	7
75	Magnetoresistance of spin valve structures based on the full Heusler alloy Co2MnSi. Journal of Applied Physics, 2006, 100, 013910.	2.5	7
76	Inhomogeneous barrier heights at dipole-controlled SrRuO3/Nb:SrTiO3 Schottky junctions. Applied Physics Letters, 2018, 113, 221603.	3.3	7
77	Modulation of the dc Josephson current in pseudo-spin-valve Josephson multilayers. Superconductor Science and Technology, 2005, 18, 921-926.	3.5	6
78	Transport and Magnetic Properties of Strong Ferromagnetic Pi-Junctions. IEEE Transactions on Applied Superconductivity, 2007, 17, 641-644.	1.7	6
79	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
80	Dielectric collapse at the LaAlO3/SrTiO3 (001) heterointerface under applied electric field. Scientific Reports, 2017, 7, 9516.	3.3	6
81	Superconductor/Ferromagnet Hybrids: Bilayers and Spin Switching. Nanoscience and Technology, 2010, , 323-347.	1.5	6
82	Nanometer-scale epitaxial strain release in perovskite heterostructures using â€œSrAlOxâ€•sliding buffer layers. Applied Physics Letters, 2011, 98, 171901.	3.3	5
83	Atomically engineered epitaxial anatase TiO2 metal-semiconductor field-effect transistors. Applied Physics Letters, 2018, 112, .	3.3	5
84	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
85	Spin Valve Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2005, 15, 908-911.	1.7	4
86	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
87	Observation of signatures of subresolution defects in two-dimensional superconductors with a scanning SQUID. Physical Review B, 2018, 98, .	3.2	2
88	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
89	Magnetization rotation in a superconductor/ferromagnet bilayer ring structure. Physical Review B, 2009, 80, .	3.2	1
90	Growth Temperature Dependence of the LaAlO₃/SrTiO₃Interfacial Structure. Journal of Physics: Conference Series, 2011, 320, 012074.	0.4	1

#	Article	IF	Citations
91	De-constricting the heat. Superconductor Science and Technology, 2015, 28, 080501.	3.5	1
92	Magnetic anisotropy in Fe/U and Ni/U bilayers. Physical Review B, 2021, 103, .	3.2	1
93	Giant-Magnetoresistive/Superconducting Contacts and Josephson Junction Devices. IEEE Transactions on Applied Superconductivity, 2005, 15, 904-907.	1.7	0