

Chang-Beom Eom

List of Publications by Year in descending order

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316
papers

27,989
citations

4383

86
h-index

5986

160
g-index

321
all docs

321
docs citations

321
times ranked

16820
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Ferroelectricity in Strained BaTiO ₃ Thin Films. <i>Science</i> , 2004, 306, 1005-1009.	6.0	1,676
2	Electrical control of antiferromagnetic domains in multiferroic BiFeO ₃ films at room temperature. <i>Nature Materials</i> , 2006, 5, 823-829.	13.3	1,160
3	Strain Tuning of Ferroelectric Thin Films. <i>Annual Review of Materials Research</i> , 2007, 37, 589-626.	4.3	987
4	Strongly linked current flow in polycrystalline forms of the superconductor MgB ₂ . <i>Nature</i> , 2001, 410, 186-189.	13.7	883
5	Mechanical Writing of Ferroelectric Polarization. <i>Science</i> , 2012, 336, 59-61.	6.0	645
6	Structure, physical properties, and applications of SrRuO_3 thin films. <i>Reviews of Modern Physics</i> , 2012, 84, 253-298.	16.4	550
7	Single-Crystal Epitaxial Thin Films of the Isotropic Metallic Oxides Sr _{1-x} CaxRuO ₃ (0 ≤ x ≤ 1). <i>Science</i> , 1992, 258, 1766-1769.	6.0	542
8	High critical current density and enhanced irreversibility field in superconducting MgB ₂ thin films. <i>Nature</i> , 2001, 411, 558-560.	13.7	477
9	Fabrication and properties of epitaxial ferroelectric heterostructures with (SrRuO ₃) isotropic metallic oxide electrodes. <i>Applied Physics Letters</i> , 1993, 63, 2570-2572.	1.5	432
10	Coexistence of Superconductivity and Ferromagnetism in Two Dimensions. <i>Physical Review Letters</i> , 2011, 107, 056802.	2.9	423
11	Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. <i>Nano Letters</i> , 2011, 11, 828-834.	4.5	419
12	In situ grown YBa ₂ Cu ₃ O _{7-δ} thin films from single-target magnetron sputtering. <i>Applied Physics Letters</i> , 1989, 55, 595-597.	1.5	418
13	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. <i>Nature Materials</i> , 2010, 9, 309-314.	13.3	407
14	Giant Piezoelectricity on Si for Hyperactive MEMS. <i>Science</i> , 2011, 334, 958-961.	6.0	394
15	Thickness-dependent magnetotransport in ultrathin manganite films. <i>Applied Physics Letters</i> , 1999, 74, 3017-3019.	1.5	358
16	Stabilization of Monodomain Polarization in Ultrathin PbTiO ₃ Films. <i>Physical Review Letters</i> , 2006, 96, 127601.	2.9	344
17	Strain-dependent magnetic phase diagram of epitaxial La _{0.67} Sr _{0.33} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2000, 76, 2421-2423.	1.5	343
18	Domain Dynamics During Ferroelectric Switching. <i>Science</i> , 2011, 334, 968-971.	6.0	320

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19	Probing Nanoscale Ferroelectricity by Ultraviolet Raman Spectroscopy. <i>Science</i> , 2006, 313, 1614-1616.	6.0	295
20	Very high upper critical fields in MgB ₂ produced by selective tuning of impurity scattering. <i>Superconductor Science and Technology</i> , 2004, 17, 278-286.	1.8	281
21	Polarity control of carrier injection at ferroelectric/metal interfaces for electrically switchable diode and photovoltaic effects. <i>Physical Review B</i> , 2011, 84, .	1.1	279
22	Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO ₃ Thin Films. <i>Advanced Materials</i> , 2009, 21, 817-823.	11.1	277
23	Polar metals by geometric design. <i>Nature</i> , 2016, 533, 68-72.	13.7	262
24	Direct measurement of strain effects on magnetic and electrical properties of epitaxial SrRuO ₃ thin films. <i>Applied Physics Letters</i> , 1998, 72, 978-980.	1.5	261
25	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , 2015, 349, 1314-1317.	6.0	259
26	Thin-film piezoelectric MEMS. <i>MRS Bulletin</i> , 2012, 37, 1007-1017.	1.7	256
27	New Fe-based superconductors: properties relevant for applications. <i>Superconductor Science and Technology</i> , 2010, 23, 034003.	1.8	253
28	Synthesis and ferroelectric properties of epitaxial BiFeO ₃ thin films grown by sputtering. <i>Applied Physics Letters</i> , 2006, 88, 242904.	1.5	250
29	Ferroelectricity in Strain-Free SrTiO_3 Thin Films. <i>Physical Review Letters</i> , 2010, 104, 197601.	2.9	233
30	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , 2015, 9, 6484-6492.	7.3	231
31	High-field superconductivity in alloyed MgB ₂ thin films. <i>Physical Review B</i> , 2005, 71, .	1.1	228
32	Epitaxial and Smooth Films of a-Axis YBa ₂ Cu ₃ O ₇ . <i>Science</i> , 1990, 249, 1549-1552.	6.0	226
33	Strain-Induced Polarization Rotation in Epitaxial (001) BiFeO_3 Thin Films. <i>Physical Review Letters</i> , 2008, 101, 107602.	2.9	221
34	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. <i>Nature Nanotechnology</i> , 2011, 6, 491-495.	15.6	220
35	Tailoring a two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (001) interface by epitaxial strain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4720-4724.	3.3	218
36	Heterogeneous integration of single-crystalline complex-oxide membranes. <i>Nature</i> , 2020, 578, 75-81.	13.7	218

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37	Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. <i>Science</i> , 2011, 331, 886-889.	6.0	212
38	Spin injection/detection using an organic-based magnetic semiconductor. <i>Nature Materials</i> , 2010, 9, 638-642.	13.3	209
39	Three-dimensional strain states and crystallographic domain structures of epitaxial colossal magnetoresistive La _{0.8} Ca _{0.2} MnO ₃ thin films. <i>Applied Physics Letters</i> , 1998, 73, 3294-3296.	1.5	207
40	Multiferroic BiFeO ₃ films: domain structure and polarization dynamics. <i>Phase Transitions</i> , 2006, 79, 991-1017.	0.6	202
41	Template engineering of Co-doped BaFe ₂ As ₂ single-crystal thin films. <i>Nature Materials</i> , 2010, 9, 397-402.	13.3	185
42	Test for nonreciprocal circular birefringence in YBa ₂ Cu ₃ O ₇ thin films as evidence for broken time-reversal symmetry. <i>Physical Review Letters</i> , 1990, 65, 123-126.	2.9	173
43	Strain modification of epitaxial perovskite oxide thin films using structural transitions of ferroelectric BaTiO ₃ substrate. <i>Applied Physics Letters</i> , 2000, 77, 3547-3549.	1.5	170
44	Switchable Induced Polarization in LaAlO ₃ /SrTiO ₃ Heterostructures. <i>Nano Letters</i> , 2012, 12, 1765-1771.	4.5	167
45	Improved upper critical field in bulk-form magnesium diboride by mechanical alloying with carbon. <i>Applied Physics Letters</i> , 2005, 86, 202502.	1.5	164
46	Weak-link behavior of grain boundaries in superconducting Ba(Fe _{1-x} Cox) ₂ As ₂ bicrystals. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	163
47	Creation of a two-dimensional electron gas at an oxide interface on silicon. <i>Nature Communications</i> , 2010, 1, 94.	5.8	160
48	Isostructural metal-insulator transition in VO ₂ . <i>Science</i> , 2018, 362, 1037-1040.	6.0	158
49	Electronic anisotropy, magnetic field-temperature phase diagram and their dependence on resistivity inc-axis oriented MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2001, 14, 315-319.	1.8	157
50	Structural tuning of the magnetic behavior in spinel-structure ferrite thin films. <i>Physical Review B</i> , 2000, 62, R779-R782.	1.1	156
51	Enhanced surface diffusion through termination conversion during epitaxial SrRuO ₃ growth. <i>Applied Physics Letters</i> , 2004, 84, 505-507.	1.5	154
52	Resistive loss at 10 GHz inc-axis-aligned in-situ-grown YBa ₂ Cu ₃ O ₇ films. <i>Physical Review B</i> , 1991, 43, 2922-2933.	1.1	152
53	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. <i>Nature Communications</i> , 2013, 4, .	5.8	152
54	Direct observation of a two-dimensional hole gas at oxide interfaces. <i>Nature Materials</i> , 2018, 17, 231-236.	13.3	151

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55	Water-cycle mechanism for writing and erasing nanostructures at the LaAlO ₃ /SrTiO ₃ interface. Applied Physics Letters, 2010, 97, 173110.	1.5	143
56	Microwave penetration depth measurements on Bi ₂ Sr ₂ CaCu ₂ O ₈ single crystals and YBa ₂ Cu ₃ O ₇ thin films. Physical Review Letters, 1993, 71, 781-784.	2.9	141
57	Electron pairing without superconductivity. Nature, 2015, 521, 196-199.	13.7	141
58	Nanosecond Domain Wall Dynamics in Ferroelectric Pb(Zr,Ti)O ₃ Thin Films. Physical Review Letters, 2006, 96, 187601.	2.9	138
59	Ferroelastic domain switching dynamics under electrical and mechanical excitations. Nature Communications, 2014, 5, 3801.	5.8	135
60	Microstructure of ultrathin films of YBa ₂ Cu ₃ O ₇ on MgO. Physical Review B, 1991, 43, 13007-13018.	1.1	133
61	Growth mode transition from layer by layer to step flow during the growth of heteroepitaxial SrRuO ₃ on (001) SrTiO ₃ . Applied Physics Letters, 2001, 79, 1447-1449.	1.5	128
62	The Nature of Polarization Fatigue in BiFeO ₃ . Advanced Materials, 2011, 23, 1621-1625.	11.1	127
63	Distribution of flux-pinning energies in YBa ₂ Cu ₃ O ₇ and Bi ₂ Sr ₂ CaCu ₂ O ₈ from flux noise. Physical Review Letters, 1990, 64, 72-75.	2.9	126
64	Rewritable nanoscale oxide photodetector. Nature Photonics, 2010, 4, 849-852.	15.6	126
65	Positive exchange bias in ferromagnetic La _{0.67} Sr _{0.33} MnO ₃ /SrRuO ₃ bilayers. Applied Physics Letters, 2004, 84, 5458-5460.	1.5	124
66	Magnetotransport and magnetic domain structure in compressively strained colossal magnetoresistance films. Applied Physics Letters, 1999, 75, 2295-2297.	1.5	123
67	Thickness dependence of structural and piezoelectric properties of epitaxial Pb(Zr _{0.52} Ti _{0.48})O ₃ films on Si and SrTiO ₃ substrates. Applied Physics Letters, 2006, 88, 142904.	1.5	122
68	Antiferromagnetic half-skyrmions and bimerons at room temperature. Nature, 2021, 590, 74-79.	13.7	121
69	Effect of three-dimensional strain states on magnetic anisotropy of La _{0.8} Ca _{0.2} MnO ₃ epitaxial thin films. Applied Physics Letters, 1999, 74, 1615-1617.	1.5	120
70	Control of the growth and domain structure of epitaxial SrRuO ₃ thin films by vicinal (001) SrTiO ₃ substrates. Applied Physics Letters, 1997, 70, 1962-1964.	1.5	119
71	Optical control of polarization in ferroelectric heterostructures. Nature Communications, 2018, 9, 3344.	5.8	119
72	Polarization switching in epitaxial BiFeO ₃ films. Applied Physics Letters, 2005, 87, 252902.	1.5	118

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73	Sketched oxide single-electron transistor. Nature Nanotechnology, 2011, 6, 343-347.	15.6	118
74	Room-temperature electronically-controlled ferromagnetism at the LaAlO ₃ /SrTiO ₃ interface. Nature Communications, 2014, 5, 5019.	5.8	115
75	Size effects in ultrathin epitaxial ferroelectric heterostructures. Applied Physics Letters, 2004, 84, 5225-5227.	1.5	112
76	Ferroelectric domain structure in epitaxial BiFeO ₃ films. Applied Physics Letters, 2005, 87, 182912.	1.5	107
77	Epitaxial (001) BiFeO ₃ membranes with substantially reduced fatigue and leakage. Applied Physics Letters, 2008, 92, 062910.	1.5	107
78	Ferroelectric tunnel junctions with graphene electrodes. Nature Communications, 2014, 5, 5518.	5.8	107
79	Giant magnetoresistance in ferromagnet/organic semiconductor/ferromagnet heterojunctions. Physical Review B, 2009, 80, .	1.1	103
80	Controlling spin current polarization through non-collinear antiferromagnetism. Nature Communications, 2020, 11, 4671.	5.8	103
81	YBa ₂ Cu ₃ O ₇ superconducting films with low microwave surface resistance over large areas. Applied Physics Letters, 1990, 57, 520-522.	1.5	99
82	Epitaxial integration of perovskite-based multifunctional oxides on silicon. Acta Materialia, 2013, 61, 2734-2750.	3.8	95
83	Sharpened VO ₂ Phase Transition via Controlled Release of Epitaxial Strain. Nano Letters, 2017, 17, 5614-5619.	4.5	93
84	Growth mechanisms of epitaxial metallic oxide SrRuO ₃ thin films studied by scanning tunneling microscopy. Applied Physics Letters, 1997, 71, 1171-1173.	1.5	92
85	Properties of MgB ₂ thin films with carbon doping. Applied Physics Letters, 2004, 85, 2017-2019.	1.5	92
86	Domain structure of epitaxial SrRuO ₃ thin films on miscut (001) SrTiO ₃ substrates. Applied Physics Letters, 1998, 72, 2963-2965.	1.5	91
87	Effects of film thickness and lattice mismatch on strain states and magnetic properties of La _{0.8} Ca _{0.2} MnO ₃ thin films. Journal of Applied Physics, 1999, 85, 4794-4796.	1.1	89
88	Synthesis and properties of c-axis oriented epitaxial MgB ₂ thin films. Applied Physics Letters, 2002, 81, 1851-1853.	1.5	85
89	Absence of weak-link behaviour in YBa ₂ Cu ₃ O ₇ grains connected by 90° [010] twist boundaries. Nature, 1991, 353, 544-547.	13.7	84
90	Lightwave-driven gapless superconductivity and forbidden quantum beats by terahertz symmetry breaking. Nature Photonics, 2019, 13, 707-713.	15.6	81

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91	Phase Transition Temperatures of Strained Single-Crystal SrRuO ₃ Thin Films. <i>Advanced Materials</i> , 2010, 22, 759-762.	11.1	78
92	Observation of magnetic vortex pairs at room temperature in a planar \pm -Fe ₂ O ₃ /Co heterostructure. <i>Nature Materials</i> , 2018, 17, 581-585.	13.3	78
93	Critical currents, pinning, and edge barriers in narrow YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Physical Review B</i> , 1990, 41, 11203-11208.	1.1	77
94	Preparation of oriented BiCaSrCuO thin films using pulsed laser deposition. <i>Applied Physics Letters</i> , 1988, 53, 337-339.	1.5	76
95	Stripe domain structure in epitaxial (001) BiFeO ₃ thin films on orthorhombic TbScO ₃ substrate. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	76
96	Mechanical Tuning of LaAlO ₃ /SrTiO ₃ Interface Conductivity. <i>Nano Letters</i> , 2015, 15, 3547-3551.	4.5	75
97	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS ₂ -BaTiO ₃ -SrRuO ₃ Tunnel Junctions. <i>Nano Letters</i> , 2017, 17, 922-927.	4.5	75
98	Perovskite phase stabilization in epitaxial Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ films by deposition onto vicinal (001) SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2001, 79, 3482-3484.	1.5	74
99	Prediction of ferroelectricity in BaTiO ₃ -SrTiO ₃ superlattices with domains. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	74
100	Ferroelectric domain structures of epitaxial (001) BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2007, 90, 072907.	1.5	73
101	Anisotropic spin-orbit torque generation in epitaxial SrIrO ₃ by symmetry design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16186-16191.	3.3	73
102	Thermal diffusion, interfacial thermal barrier, and ultrasonic propagation in YBa ₂ Cu ₃ O _{7-δ} thin films: Surface-selective transient-grating experiments. <i>Physical Review B</i> , 1992, 45, 10009-10021.	1.1	71
103	Magnetoresistance properties of thin films of the metallic oxide ferromagnet SrRuO ₃ . <i>Physical Review B</i> , 1995, 52, 3459-3465.	1.1	70
104	Artificially engineered superlattices of pnictide superconductors. <i>Nature Materials</i> , 2013, 12, 392-396.	13.3	70
105	Hall-effect sign reversal in CaRuO ₃ and SrRuO ₃ thin films. <i>Physical Review B</i> , 1996, 54, 8996-8999.	1.1	69
106	Strain stabilized metal-insulator transition in epitaxial thin films of metallic oxide CaRuO ₃ . <i>Applied Physics Letters</i> , 1997, 70, 3035-3037.	1.5	69
107	Giant conductivity switching of LaAlO ₃ /SrTiO ₃ heterointerfaces governed by surface protonation. <i>Nature Communications</i> , 2016, 7, 10681.	5.8	68
108	Strong vortex pinning in Co-doped BaFe ₂ As ₂ single crystal thin films. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	66

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109	Anisotropic proximity coupling in small YBa ₂ Cu ₃ O ₇ normal-Pb junctions. Applied Physics Letters, 1990, 57, 1152-1154.	1.5	65
110	Probing Surface and Bulk Electrochemical Processes on the LaAlO ₃ /SrTiO ₃ Interface. ACS Nano, 2012, 6, 3841-3852.	7.3	65
111	Scanning tunneling microscopy of the ab-planes of Bi ₂ (Ca,Sr) ₃ Cu ₂ O ₈ single crystal and thin film. Applied Physics Letters, 1988, 52, 2071-2073.	1.5	64
112	New approaches for achieving more perfect transition metal oxide thin films. APL Materials, 2020, 8, .	2.2	64
113	Spin-neutral currents for spintronics. Nature Communications, 2021, 12, 7061.	5.8	63
114	Study of defect-dipoles in an epitaxial ferroelectric thin film. Applied Physics Letters, 2010, 96, .	1.5	61
115	Terahertz-light quantum tuning of a metastable emergent phase hidden by superconductivity. Nature Materials, 2018, 17, 586-591.	13.3	61
116	Epitaxial CrN Thin Films with High Thermoelectric Figure of Merit. Advanced Materials, 2015, 27, 3032-3037.	11.1	59
117	Mechanically-Induced Resistive Switching in Ferroelectric Tunnel Junctions. Nano Letters, 2012, 12, 6289-6292.	4.5	58
118	Ferroelectricity in nonstoichiometric SrTiO ₃ films studied by ultraviolet Raman spectroscopy. Applied Physics Letters, 2010, 97, .	1.5	57
119	Nature of the states near the Fermi level of the layered superconductors of Bi ₂ Ca ₁ Sr ₂ Cu ₂ O ₈ and Bi ₂ Sr ₂ CuO ₆ . Physical Review B, 1989, 39, 823-826.	1.1	56
120	A-Axis-Oriented YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ Superlattices. Science, 1991, 251, 780-783.	6.0	56
121	Direct Observations of Retention Failure in Ferroelectric Memories. Advanced Materials, 2012, 24, 1106-1110.	11.1	56
122	Nanomechanics of flexoelectric switching. Physical Review B, 2015, 92, .	1.1	56
123	Imprint Control of BaTiO ₃ Thin Films via Chemically Induced Surface Polarization Pinning. Nano Letters, 2016, 16, 2400-2406.	4.5	56
124	Tuning the remanent polarization of epitaxial ferroelectric thin films with strain. Applied Physics Letters, 2009, 95, .	1.5	54
125	Metallicity in LaTiO_3 thin films induced by lattice deformation. Physical Review B, 2010, 81, .	1.5	54
126	Measurements of spin polarization of epitaxial SrRuO ₃ thin films. Applied Physics Letters, 2003, 82, 427-429.	1.5	51

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127	Terahertz Second-Harmonic Generation from Lightwave Acceleration of Symmetry-Breaking Nonlinear Supercurrents. <i>Physical Review Letters</i> , 2020, 124, 207003.	2.9	51
128	Quantized Ballistic Transport of Electrons and Electron Pairs in LaAlO ₃ /SrTiO ₃ Nanowires. <i>Nano Letters</i> , 2018, 18, 4473-4481.	4.5	50
129	Interfacial coherency and ferroelectricity of BaTiO ₃ /SrTiO ₃ superlattice films. <i>Applied Physics Letters</i> , 2007, 91, 252904.	1.5	49
130	Development of very high J _c in Ba(Fe _{1-x} Cox) ₂ As ₂ thin films grown on CaF ₂ . <i>Scientific Reports</i> , 2014, 4, 7305.	1.6	45
131	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO ₃ heterostructures. <i>Nature Communications</i> , 2017, 8, 1583.	5.8	45
132	High upper critical field and irreversibility field in MgB ₂ coated-conductor fibers. <i>Applied Physics Letters</i> , 2005, 87, 252509.	1.5	43
133	Artificial and self-assembled vortex-pinning centers in superconducting Ba(Fe _{1-x} Ti _x) ₂ As ₂ . <i>Physical Review Applied</i> , 2019, 11, 044002.	1.1	43
134	Pascal conductance series in ballistic one-dimensional LaAlO ₃ /SrTiO ₃ channels. <i>Science</i> , 2020, 367, 769-772.	6.0	43
135	Self-assembled oxide nanopillars in epitaxial BaFe ₂ As ₂ thin films for vortex pinning. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	42
136	Electromechanics of Ferroelectric-Like Behavior of LaAlO ₃ Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 6538-6544.	7.8	42
137	Growth of (103) fiber-textured SrBi ₂ Nb ₂ O ₉ films on Pt-coated silicon. <i>Applied Physics Letters</i> , 2002, 80, 2371-2373.	1.5	41
138	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. <i>Nano Letters</i> , 2016, 16, 6460-6466.	4.5	41
139	Magnetic structure of epitaxial multiferroic BiFeO ₃ with engineered ferroelectric domains. <i>Physical Review B</i> , 2010, 82, .	1.1	40
140	Continuous Control of Charge Transport in Bi-Deficient BiFeO ₃ Films Through Local Ferroelectric Switching. <i>Advanced Functional Materials</i> , 2012, 22, 4962-4968.	7.8	40
141	Direct imaging of the electron liquid at oxide interfaces. <i>Nature Nanotechnology</i> , 2018, 13, 198-203.	15.6	40
142	Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	39
143	Anomalous High Mobility in LaAlO ₃ /SrTiO ₃ Nanowires. <i>Nano Letters</i> , 2013, 13, 364-368.	4.5	39
144	Thermally activated current transport in MgB ₂ films. <i>Physical Review B</i> , 2004, 70, .	1.1	38

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145	Temperature Evolution of Itinerant Ferromagnetism in SrRuO_3 Probed by Optical Spectroscopy. Physical Review Letters, 2013, 110, 247202.	2.9	38
146	Spin Structure in an Interfacially Coupled Epitaxial Ferromagnetic Oxide Heterostructure. Physical Review Letters, 2013, 110, 237201.	2.9	37
147	Light quantum control of persisting Higgs modes in iron-based superconductors. Nature Communications, 2021, 12, 258.	5.8	36
148	One-Dimensional Nature of Superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. Physical Review Letters, 2018, 120, 147001.	2.9	34
149	Uniform deposition of $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films over an 8 inch diameter area by a 90° off-axis sputtering technique. Applied Physics Letters, 1996, 69, 3911-3913.	1.5	33
150	Interfacial structure of epitaxial MgB_2 thin films grown on (0001) sapphire. Applied Physics Letters, 2002, 81, 685-687.	1.5	33
151	Reliable polarization switching of BiFeO_3 . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 4872-4889.	1.6	33
152	Localization of two-dimensional electron gas in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructures. Physical Review B, 2012, 85, .	1.1	33
153	Micrometer-Scale Ballistic Transport of Electron Pairs in $\text{LaAlO}_3/\text{SrTiO}_3$. Physical Review Letters, 2016, 117, 096801.	2.9	32
154	Tailoring $\text{LaAlO}_3/\text{SrTiO}_3$ Interface Metallicity by Oxygen Surface Adsorbates. Nano Letters, 2016, 16, 2739-2743.	4.5	32
155	Antiferromagnetic exchange-bias in epitaxial ferromagnetic $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{SrRuO}_3$ bilayers. Journal of Applied Physics, 2005, 97, 10K115.	1.1	31
156	Interface structure and strain relaxation in BaTiO_3 thin films grown on GdScO_3 and DyScO_3 substrates with buried coherent SrRuO_3 layer. Applied Physics Letters, 2007, 91, .	1.5	31
157	Surface stability of epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films on (111)-oriented SrTiO_3 . Journal of Applied Physics, 2013, 113, .	1.1	31
158	Mechanically induced ferroelectric switching in BaTiO_3 thin films. Acta Materialia, 2020, 193, 151-162.	3.8	31
159	Tunneling Hot Spots in Ferroelectric SrTiO_3 . Nano Letters, 2018, 18, 491-497.	4.5	30
160	Electric-field-controlled directional motion of ferroelectric domain walls in multiferroic BiFeO_3 films. Applied Physics Letters, 2009, 95, .	1.5	29
161	Tunable Electron-Electron Interactions in $\text{LaAlO}_3/\text{SrTiO}_3$ Nanostructures. Physical Review X, 2016, 6, .	2.8	29
162	Magnetic behavior of epitaxial SrRuO_3 thin films under pressure up to 23 GPa. Applied Physics Letters, 2002, 80, 2338-2340.	1.5	28

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163	Magnetotransport in manganite trilayer junctions grown by 90° off-axis sputtering. Applied Physics Letters, 2001, 79, 233-235.	1.5	27
164	Terahertz-frequency carrier dynamics and spectral weight redistribution in the nearly magnetic metal CaRuO ₃ . Physical Review B, 2006, 74, .	1.1	27
165	Origin of suppressed polarization in BiFeO ₃ films. Applied Physics Letters, 2010, 97, 212904.	1.5	27
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