Chang-Beom Eom

List of Publications by Citations

308 papers	24,002 citations	82 h-index	149 g-index
321 ext. papers	26,030 ext. citations	9.2 avg, IF	6.38 L-index

#	Paper	IF	Citations
308	Enhancement of ferroelectricity in strained BaTiO3 thin films. *Science*, **2004**, 306, 1005-9	33.3	1459
307	Electrical control of antiferromagnetic domains in multiferroic BiFeO3 films at room temperature. *Nature Materials*, **2006**, 5, 823-9	27	1054
306	Strain Tuning of Ferroelectric Thin Films. *Annual Review of Materials Research*, **2007**, 37, 589-626	12.8	869
305	Strongly linked current flow in polycrystalline forms of the superconductor MgB2. *Nature*, **2001**, 410, 186-9	50.4	811
304	Mechanical writing of ferroelectric polarization. *Science*, **2012**, 336, 59-61	33.3	521
303	Single-Crystal Epitaxial Thin Films of the Isotropic Metallic Oxides Sr1-xCaxRuO3 (0 le x le 1). *Science*, **1992**, 258, 1766-9	33.3	500
302	High critical current density and enhanced irreversibility field in superconducting MgB2 thin films. *Nature*, **2001**, 411, 558-60	50.4	448
301	Structure, physical properties, and applications of SrRuO3 thin films. *Reviews of Modern Physics*, **2012**, 84, 253-298	40.5	439
300	Fabrication and properties of epitaxial ferroelectric heterostructures with (SrRuO3) isotropic metallic oxide electrodes. *Applied Physics Letters*, **1993**, 63, 2570-2572	3.4	394
299	In situ grown YBa2Cu3O7□ thin films from single-target magnetron sputtering. *Applied Physics Letters*, **1989**, 55, 595-597	3.4	391
298	Coexistence of superconductivity and ferromagnetism in two dimensions. *Physical Review Letters*, **2011**, 107, 056802	7.4	366
297	Spontaneous vortex nanodomain arrays at ferroelectric heterointerfaces. *Nano Letters*, **2011**, 11, 828-34	11.5	365
296	Ferroelastic switching for nanoscale non-volatile magnetoelectric devices. *Nature Materials*, **2010**, 9, 309-14	27	344
295	Thickness-dependent magnetotransport in ultrathin manganite films. *Applied Physics Letters*, **1999**, 74, 3017-3019	3.4	338
294	Giant piezoelectricity on Si for hyperactive MEMS. *Science*, **2011**, 334, 958-61	33.3	319
293	Stabilization of monodomain polarization in ultrathin PbTiO3 films. *Physical Review Letters*, **2006**, 96, 127601	7.4	318
292	Strain-dependent magnetic phase diagram of epitaxial La0.67Sr0.33MnO3 thin films. *Applied Physics Letters*, **2000**, 76, 2421-2423	3.4	313

291	Domain dynamics during ferroelectric switching. *Science*, **2011**, 334, 968-71	33.3	277
290	Probing nanoscale ferroelectricity by ultraviolet Raman spectroscopy. *Science*, **2006**, 313, 1614-6	33.3	272
289	Domain Engineering for Enhanced Ferroelectric Properties of Epitaxial (001) BiFeO Thin Films. *Advanced Materials*, **2009**, 21, 817-823	24	251
288	Very high upper critical fields in MgB2produced by selective tuning of impurity scattering. *Superconductor Science and Technology*, **2004**, 17, 278-286	3.1	250
287	Polarity control of carrier injection at ferroelectric/metal interfaces for electrically switchable diode and photovoltaic effects. *Physical Review B*, **2011**, 84,	3.3	245
286	Direct measurement of strain effects on magnetic and electrical properties of epitaxial SrRuO3 thin films. *Applied Physics Letters*, **1998**, 72, 978-980	3.4	230
285	New Fe-based superconductors: properties relevant for applications. *Superconductor Science and Technology*, **2010**, 23, 034003	3.1	228
284	Synthesis and ferroelectric properties of epitaxial BiFeO3 thin films grown by sputtering. *Applied Physics Letters*, **2006**, 88, 242904	3.4	228
283	Epitaxial and Smooth Films of a-Axis YBa2Cu3O7. *Science*, **1990**, 249, 1549-52	33.3	218
282	High-field superconductivity in alloyed MgB2 thin films. *Physical Review B*, **2005**, 71,	3.3	213
281	Tailoring a two-dimensional electron gas at the LaAlO3/SrTiO3 (001) interface by epitaxial strain. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 4720-4724	11.5	207
280	Ferroelectricity in strain-free SrTiO3 thin films. *Physical Review Letters*, **2010**, 104, 197601	7.4	205
279	Strain-induced polarization rotation in epitaxial (001) BiFeO3 thin films. *Physical Review Letters*, **2008**, 101, 107602	7.4	205
278	Polar metals by geometric design. *Nature*, **2016**, 533, 68-72	50.4	203
277	Thin-film piezoelectric MEMS. *MRS Bulletin*, **2012**, 37, 1007-1017	3.2	202
276	Emergence of room-temperature ferroelectricity at reduced dimensions. *Science*, **2015**, 349, 1314-7	33.3	198
275	Three-dimensional strain states and crystallographic domain structures of epitaxial colossal magnetoresistive La0.8Ca0.2MnO3 thin films. *Applied Physics Letters*, **1998**, 73, 3294-3296	3.4	197
274	Metallic and insulating oxide interfaces controlled by electronic correlations. *Science*, **2011**, 331, 886-9	33.3	193

273	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. *ACS Nano*, **2015**, 9, 6484-92	16.7	191
272	Thick lead-free ferroelectric films with high Curie temperatures through nanocomposite-induced strain. *Nature Nanotechnology*, **2011**, 6, 491-5	28.7	191
271	Multiferroic BiFeO3 films: domain structure and polarization dynamics. *Phase Transitions*, **2006**, 79, 991-1017	1.3	185
270	Spin injection/detection using an organic-based magnetic semiconductor. *Nature Materials*, **2010**, 9, 638-42	27	184
269	Template engineering of Co-doped BaFe2As2 single-crystal thin films. *Nature Materials*, **2010**, 9, 397-402	27	173
268	Switchable induced polarization in LaAlO3/SrTiO3 heterostructures. *Nano Letters*, **2012**, 12, 1765-71	11.5	159
267	Improved upper critical field in bulk-form magnesium diboride by mechanical alloying with carbon. *Applied Physics Letters*, **2005**, 86, 202502	3.4	158
266	Test for nonreciprocal circular birefringence in YBa2Cu3O7 thin films as evidence for broken time-reversal symmetry. *Physical Review Letters*, **1990**, 65, 123-126	7.4	155
265	Strain modification of epitaxial perovskite oxide thin films using structural transitions of ferroelectric BaTiO3 substrate. *Applied Physics Letters*, **2000**, 77, 3547-3549	3.4	154
264	Weak-link behavior of grain boundaries in superconducting Ba(Fe1−xCox)2As2 bicrystals. *Applied Physics Letters*, **2009**, 95, 212505	3.4	151
263	Electronic anisotropy, magnetic field-temperature phase diagram and their dependence on resistivity inc-axis oriented MgB2thin films. *Superconductor Science and Technology*, **2001**, 14, 315-319	3.1	147
262	Resistive loss at 10 GHz in c-axis-aligned in-situ-grown YBa2Cu3O7 films. *Physical Review B*, **1991**, 43, 2922-2933	3.3	144
261	Structural tuning of the magnetic behavior in spinel-structure ferrite thin films. *Physical Review B*, **2000**, 62, R779-R782	3.3	143
260	Enhanced surface diffusion through termination conversion during epitaxial SrRuO3 growth. *Applied Physics Letters*, **2004**, 84, 505-507	3.4	142
259	Creation of a two-dimensional electron gas at an oxide interface on silicon. *Nature Communications*, **2010**, 1, 94	17.4	136
258	Microwave penetration depth measurements on Bi2Sr2CaCu2O8 single crystals and YBa2Cu3O7-delta thin films. *Physical Review Letters*, **1993**, 71, 781-784	7.4	135
257	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. *Nature Communications*, **2013**, 4,	17.4	128
256	Water-cycle mechanism for writing and erasing nanostructures at the LaAlO3/SrTiO3 interface. *Applied Physics Letters*, **2010**, 97, 173110	3.4	128

255	Nanosecond domain wall dynamics in ferroelectric Pb(Zr, Ti)O(3) thin films. *Physical Review Letters*, **2006**, 96, 187601	7.4	123
254	Microstructure of ultrathin films of YBa2Cu3O7- delta on MgO. *Physical Review B*, **1991**, 43, 13007-13018	3.3	122
253	Distribution of flux-pinning energies in YBa2Cu3O7- delta and Bi2Sr2CaCu2O8+ delta from flux noise. *Physical Review Letters*, **1990**, 64, 72-75	7.4	122
252	Growth mode transition from layer by layer to step flow during the growth of heteroepitaxial SrRuO3 on (001) SrTiO3. *Applied Physics Letters*, **2001**, 79, 1447-1449	3.4	121
251	The nature of polarization fatigue in BiFeO3. *Advanced Materials*, **2011**, 23, 1621-5	24	117
250	Direct observation of a two-dimensional hole gas at oxide interfaces. *Nature Materials*, **2018**, 17, 231-236	37	116
249	Effect of three-dimensional strain states on magnetic anisotropy of La0.8Ca0.2MnO3 epitaxial thin films. *Applied Physics Letters*, **1999**, 74, 1615-1617	3.4	116
248	Positive exchange bias in ferromagnetic La0.67Sr0.33MnO3/SrRuO3 bilayers. *Applied Physics Letters*, **2004**, 84, 5458-5460	3.4	115
247	Rewritable nanoscale oxide photodetector. *Nature Photonics*, **2010**, 4, 849-852	33.9	113
246	Control of the growth and domain structure of epitaxial SrRuO3 thin films by vicinal (001) SrTiO3 substrates. *Applied Physics Letters*, **1997**, 70, 1962-1964	3.4	111
245	Ferroelastic domain switching dynamics under electrical and mechanical excitations. *Nature Communications*, **2014**, 5, 3801	17.4	110
244	Magnetotransport and magnetic domain structure in compressively strained colossal magnetoresistance films. *Applied Physics Letters*, **1999**, 75, 2295-2297	3.4	110
243	Electron pairing without superconductivity. *Nature*, **2015**, 521, 196-9	50.4	108
242	Thickness dependence of structural and piezoelectric properties of epitaxial Pb(Zr0.52Ti0.48)O3 films on Si and SrTiO3 substrates. *Applied Physics Letters*, **2006**, 88, 142904	3.4	107
241	Heterogeneous integration of single-crystalline complex-oxide membranes. *Nature*, **2020**, 578, 75-81	50.4	107
240	Polarization switching in epitaxial BiFeO3 films. *Applied Physics Letters*, **2005**, 87, 252902	3.4	104
239	Sketched oxide single-electron transistor. *Nature Nanotechnology*, **2011**, 6, 343-7	28.7	103
238	Room-temperature electronically-controlled ferromagnetism at the LaAlO3/SrTiO3 interface. *Nature Communications*, **2014**, 5, 5019	17.4	102

237	Epitaxial (001) BiFeO3 membranes with substantially reduced fatigue and leakage. *Applied Physics Letters*, **2008**, 92, 062910	3.4	100
236	Size effects in ultrathin epitaxial ferroelectric heterostructures. *Applied Physics Letters*, **2004**, 84, 5225-5227	3.4	100
235	Giant magnetoresistance in ferromagnet/organic semiconductor/ferromagnet heterojunctions. *Physical Review B*, **2009**, 80,	3.3	97
234	Ferroelectric domain structure in epitaxial BiFeO3 films. *Applied Physics Letters*, **2005**, 87, 182912	3.4	96
233	YBa2Cu3O7□superconducting films with low microwave surface resistance over large areas. *Applied Physics Letters*, **1990**, 57, 520-522	3.4	94
232	Isostructural metal-insulator transition in VO. *Science*, **2018**, 362, 1037-1040	33.3	94
231	Growth mechanisms of epitaxial metallic oxide SrRuO3 thin films studied by scanning tunneling microscopy. *Applied Physics Letters*, **1997**, 71, 1171-1173	3.4	87
230	Properties of MgB2 thin films with carbon doping. *Applied Physics Letters*, **2004**, 85, 2017-2019	3.4	86
229	Epitaxial integration of perovskite-based multifunctional oxides on silicon. *Acta Materialia*, **2013**, 61, 2734-2750	8.4	85
228	Ferroelectric tunnel junctions with graphene electrodes. *Nature Communications*, **2014**, 5, 5518	17.4	85
227	Effects of film thickness and lattice mismatch on strain states and magnetic properties of La0.8Ca0.2MnO3 thin films. *Journal of Applied Physics*, **1999**, 85, 4794-4796	2.5	85
226	Synthesis and properties of c-axis oriented epitaxial MgB2 thin films. *Applied Physics Letters*, **2002**, 81, 1851-1853	3.4	81
225	Domain structure of epitaxial SrRuO3 thin films on miscut (001) SrTiO3 substrates. *Applied Physics Letters*, **1998**, 72, 2963-2965	3.4	78
224	Absence of weak-link behaviour in YBa2Cu3O7 grains connected by 90□[010] twist boundaries. *Nature*, **1991**, 353, 544-547	50.4	75
223	Critical currents, pinning, and edge barriers in narrow YBa2Cu3O7- delta thin films. *Physical Review B*, **1990**, 41, 11203-11208	3.3	75
222	Preparation of oriented Bi-Ca-Sr-Cu-O thin films using pulsed laser deposition. *Applied Physics Letters*, **1988**, 53, 337-339	3.4	72
221	Phase-transition temperatures of strained single-crystal SrRuO3 thin films. *Advanced Materials*, **2010**, 22, 759-62	24	70
220	Optical control of polarization in ferroelectric heterostructures. *Nature Communications*, **2018**, 9, 3344	17.4	69

219	Stripe domain structure in epitaxial (001) BiFeO3 thin films on orthorhombic TbScO3 substrate. *Applied Physics Letters*, **2009**, 94, 251911	3.4	69
218	Ferroelectric domain structures of epitaxial (001) BiFeO3 thin films. *Applied Physics Letters*, **2007**, 90, 072907	3.4	68
217	Prediction of ferroelectricity in BaTiO3/SrTiO3 superlattices with domains. *Applied Physics Letters*, **2007**, 91, 112914	3.4	66
216	Magnetoresistance properties of thin films of the metallic oxide ferromagnet SrRuO3. *Physical Review B*, **1995**, 52, 3459-3465	3.3	66
215	Thermal diffusion, interfacial thermal barrier, and ultrasonic propagation in YBa2Cu3O7-x thin films: Surface-selective transient-grating experiments. *Physical Review B*, **1992**, 45, 10009-10021	3.3	65
214	Strong vortex pinning in Co-doped BaFe2As2 single crystal thin films. *Applied Physics Letters*, **2010**, 96, 142510	3.4	64
213	Hall-effect sign reversal in CaRuO3 and SrRuO3 thin films. *Physical Review B*, **1996**, 54, 8996-8999	3.3	64
212	Anisotropic proximity coupling in small YBa2Cu3O7-normal-Pb junctions. *Applied Physics Letters*, **1990**, 57, 1152-1154	3.4	64
211	Strain stabilized metal□insulator transition in epitaxial thin films of metallic oxide CaRuO3. *Applied Physics Letters*, **1997**, 70, 3035-3037	3.4	63
210	Artificially engineered superlattices of pnictide superconductors. *Nature Materials*, **2013**, 12, 392-6	27	62
209	Probing surface and bulk electrochemical processes on the LaAlO3-SrTiO3 interface. *ACS Nano*, **2012**, 6, 3841-52	16.7	62
208	Mechanical Tuning of LaAlO3/SrTiO3 Interface Conductivity. *Nano Letters*, **2015**, 15, 3547-51	11.5	61
207	Sharpened VO Phase Transition via Controlled Release of Epitaxial Strain. *Nano Letters*, **2017**, 17, 5614-5619	11.5	60
206	Perovskite phase stabilization in epitaxial Pb(Mg1/3Nb2/3)O3-PbTiO3 films by deposition onto vicinal (001) SrTiO3 substrates. *Applied Physics Letters*, **2001**, 79, 3482-3484	3.4	60
205	Giant conductivity switching of LaAlO3/SrTiO3 heterointerfaces governed by surface protonation. *Nature Communications*, **2016**, 7, 10681	17.4	57
204	Scanning tunneling microscopy of the a-b planes of Bi2(Ca,Sr)3Cu2O8+□single crystal and thin film. *Applied Physics Letters*, **1988**, 52, 2071-2073	3.4	57
203	Nature of the states near the Fermi level of the layered superconductors of Bi2Ca1Sr2Cu2O8 and Bi2Sr2CuO6. *Physical Review B*, **1989**, 39, 823-826	3.3	54
202	A-Axis--Oriented YBa2Cu3O7/PrBa2Cu3O7 Superlattices. *Science*, **1991**, 251, 780-3	33.3	54

201	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS-BaTiO-SrRuO Tunnel Junctions. *Nano Letters*, **2017**, 17, 922-927	11.5	53
200	Tuning the remanent polarization of epitaxial ferroelectric thin films with strain. *Applied Physics Letters*, **2009**, 95, 122904	3.4	53
199	Study of defect-dipoles in an epitaxial ferroelectric thin film. *Applied Physics Letters*, **2010**, 96, 052903	3.4	52
198	Metallicity in LaTiO3 thin films induced by lattice deformation. *Physical Review B*, **2010**, 81,	3.3	50
197	Ferroelectricity in nonstoichiometric SrTiO3 films studied by ultraviolet Raman spectroscopy. *Applied Physics Letters*, **2010**, 97, 142901	3.4	50
196	Measurements of spin polarization of epitaxial SrRuO3 thin films. *Applied Physics Letters*, **2003**, 82, 427-429	3.4	50
195	Mechanically-induced resistive switching in ferroelectric tunnel junctions. *Nano Letters*, **2012**, 12, 6289-92	11.5	48
194	Direct observations of retention failure in ferroelectric memories. *Advanced Materials*, **2012**, 24, 1106-10	24	47
193	Epitaxial CrN thin films with high thermoelectric figure of merit. *Advanced Materials*, **2015**, 27, 3032-7	24	45
192	Observation of magnetic vortex pairs at room temperature in a planar □FeO/Co heterostructure. *Nature Materials*, **2018**, 17, 581-585	27	45
191	Interfacial coherency and ferroelectricity of BaTiO3□SrTiO3 superlattice films. *Applied Physics Letters*, **2007**, 91, 252904	3.4	45
190	Imprint Control of BaTiO3 Thin Films via Chemically Induced Surface Polarization Pinning. *Nano Letters*, **2016**, 16, 2400-6	11.5	42
189	Nanomechanics of flexoelectric switching. *Physical Review B*, **2015**, 92,	3.3	41
188	Antiferromagnetic half-skyrmions and bimerons at room temperature. *Nature*, **2021**, 590, 74-79	50.4	41
187	Lightwave-driven gapless superconductivity and forbidden quantum beats by terahertz symmetry breaking. *Nature Photonics*, **2019**, 13, 707-713	33.9	40
186	Self-assembled oxide nanopillars in epitaxial BaFe2As2 thin films for vortex pinning. *Applied Physics Letters*, **2011**, 98, 042509	3.4	40
185	Artificial and self-assembled vortex-pinning centers in superconducting Ba(Fe1□Cox)2As2 thin films as a route to obtaining very high critical-current densities. *Physical Review B*, **2012**, 86,	3.3	39
184	High upper critical field and irreversibility field in MgB2 coated-conductor fibers. *Applied Physics Letters*, **2005**, 87, 252509	3.4	39

183	Growth of (103) fiber-textured SrBi2Nb2O9 films on Pt-coated silicon. *Applied Physics Letters*, **2002**, 80, 2371-2373	3.4	39
182	New approaches for achieving more perfect transition metal oxide thin films. *APL Materials*, **2020**, 8, 040904	5.7	37
181	Terahertz-light quantum tuning of a metastable emergent phase hidden by superconductivity. *Nature Materials*, **2018**, 17, 586-591	27	37
180	Thermally activated current transport in MgB2 films. *Physical Review B*, **2004**, 70,	3.3	37
179	Development of very high Jc in Ba(Fe1-xCox)2As2 thin films grown on CaF2. *Scientific Reports*, **2014** , 4, 7305	4.9	36
178	Continuous Control of Charge Transport in Bi-Deficient BiFeO3 Films Through Local Ferroelectric Switching. *Advanced Functional Materials*, **2012**, 22, 4962-4968	15.6	36
177	Spin structure in an interfacially coupled epitaxial ferromagnetic oxide heterostructure. *Physical Review Letters*, **2013**, 110, 237201	7.4	36
176	Anisotropic spin-orbit torque generation in epitaxial SrIrO by symmetry design. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 16186-16191	11.5	35
175	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO heterostructures. *Nature Communications*, **2017**, 8, 1583	17.4	35
174	Magnetic structure of epitaxial multiferroic BiFeO3 films with engineered ferroelectric domains. *Physical Review B*, **2010**, 82,	3.3	35
173	Anomalous high mobility in LaAlO3/SrTiO3 nanowires. *Nano Letters*, **2013**, 13, 364-8	11.5	33
172	Electromechanics of Ferroelectric-Like Behavior of LaAlO3 Thin Films. *Advanced Functional Materials*, **2015**, 25, 6538-6544	15.6	33
171	Localization of two-dimensional electron gas in LaAlO3/SrTiO3 heterostructures. *Physical Review B*, **2012**, 85,	3.3	33
170	Temperature evolution of itinerant ferromagnetism in SrRuO3 probed by optical spectroscopy. *Physical Review Letters*, **2013**, 110, 247202	7.4	33
169	Uniform deposition of YBa2Cu3O7 thin films over an 8 inch diameter area by a 90□off-axis sputtering technique. *Applied Physics Letters*, **1996**, 69, 3911-3913	3.4	32
168	Quantized Ballistic Transport of Electrons and Electron Pairs in LaAlO/SrTiO Nanowires. *Nano Letters*, **2018**, 18, 4473-4481	11.5	32
167	Influence of symmetry mismatch on heteroepitaxial growth of perovskite thin films. *Applied Physics Letters*, **2008**, 93, 111912	3.4	31
166	Antiferromagnetic exchange-bias in epitaxial ferromagnetic La0.67Sr0.33MnO3□SrRuO3 bilayers. *Journal of Applied Physics*, **2005**, 97, 10K115	2.5	30

165	Interfacial structure of epitaxial MgB2 thin films grown on (0001) sapphire. *Applied Physics Letters*, **2002**, 81, 685-687	3.4	30
164	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. *Nano Letters*, **2016**, 16, 6460-6466	11.5	30
163	Surface stability of epitaxial La0.7Sr0.3MnO3 thin films on (111)-oriented SrTiO3. *Journal of Applied Physics*, **2013**, 113, 183512	2.5	29
162	Reliable polarization switching of BiFeO3. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 4872-89	3	29
161	Tailoring LaAlO3/SrTiO3 Interface Metallicity by Oxygen Surface Adsorbates. *Nano Letters*, **2016**, 16, 2739-43	11.5	28
160	Interface structure and strain relaxation in BaTiO3 thin films grown on GdScO3 and DyScO3 substrates with buried coherent SrRuO3 layer. *Applied Physics Letters*, **2007**, 91, 252906	3.4	28
159	Electric-field-controlled directional motion of ferroelectric domain walls in multiferroic BiFeO3 films. *Applied Physics Letters*, **2009**, 95, 262902	3.4	27
158	Magnetotransport in manganite trilayer junctions grown by 90°off-axis sputtering. *Applied Physics Letters*, **2001**, 79, 233-235	3.4	26
157	Magnetic behavior of epitaxial SrRuO3 thin films under pressure up to 23 GPa. *Applied Physics Letters*, **2002**, 80, 2338-2340	3.4	26
156	Direct imaging of the electron liquid at oxide interfaces. *Nature Nanotechnology*, **2018**, 13, 198-203	28.7	25
155	Origin of suppressed polarization in BiFeO3 films. *Applied Physics Letters*, **2010**, 97, 212904	3.4	25
154	Polarity-dependent kinetics of ferroelectric switching in epitaxial BiFeO3(111) capacitors. *Applied Physics Letters*, **2011**, 99, 012905	3.4	25
153	Terahertz Second-Harmonic Generation from Lightwave Acceleration of Symmetry-Breaking Nonlinear Supercurrents. *Physical Review Letters*, **2020**, 124, 207003	7.4	24
152	Retention of resistance states in ferroelectric tunnel memristors. *Applied Physics Letters*, **2013**, 103, 142908	3.4	24
151	Nanoscale rectification at the LaAlO3/SrTiO3 interface. *Applied Physics Letters*, **2010**, 97, 013102	3.4	24
150	Terahertz-frequency carrier dynamics and spectral weight redistribution in the nearly magnetic metal CaRuO3. *Physical Review B*, **2006**, 74,	3.3	24
149	Bonding silicon-on-insulator to glass wafers for integrated bio-electronic circuits. *Applied Physics Letters*, **2004**, 85, 2370-2372	3.4	24
148	Controlling spin current polarization through non-collinear antiferromagnetism. *Nature Communications*, **2020**, 11, 4671	17.4	24

147	One-Dimensional Nature of Superconductivity at the LaAlO_{3}/SrTiO_{3} Interface. *Physical Review Letters*, **2018**, 120, 147001	7.4	23
146	Micrometer-Scale Ballistic Transport of Electron Pairs in LaAlO_{3}/SrTiO_{3} Nanowires. *Physical Review Letters*, **2016**, 117, 096801	7.4	23
145	Oxide-based platform for reconfigurable superconducting nanoelectronics. *Nanotechnology*, **2013**, 24, 375201	3.4	23
144	Quasi-single-crystal (001) SrTiO3 templates on Si. *Applied Physics Letters*, **2009**, 95, 061902	3.4	23
143	Superfluid density measurements of Ba(CoxFe1-x)2As2 films near optimal doping. *Physical Review B*, **2011**, 83,	3.3	23
142	Multi-gap superconductivity in a BaFe1.84Co0.16As2 film from optical measurements at terahertz frequencies. *European Physical Journal B*, **2010**, 77, 25-30	1.2	23
141	Tunneling Hot Spots in Ferroelectric SrTiO. *Nano Letters*, **2018**, 18, 491-497	11.5	23
140	Broadband terahertz generation and detection at 10 nm scale. *Nano Letters*, **2013**, 13, 2884-8	11.5	22
139	Anisotropic grain morphology, crystallographic texture and their implications for flux pinning mechanisms in MgB2pellets, filaments and thin films. *Superconductor Science and Technology*, **2002**, 15, 511-518	3.1	22
138	Domain structure and magnetotransport in epitaxial colossal magnetoresistance thin films. *Journal of Applied Physics*, **2000**, 87, 6746-6748	2.5	22
137	Anomalous Transport in Sketched Nanostructures at the LaAlO3/SrTiO3 Interface. *Physical Review X*, **2013**, 3,	9.1	21
136	Structural consequences of ferroelectric nanolithography. *Nano Letters*, **2011**, 11, 3080-4	11.5	21
135	Step bunching-induced vertical lattice mismatch and crystallographic tilt in vicinal BiFeO3(001) films. *Applied Physics Letters*, **2011**, 98, 022904	3.4	21
134	Synthesis and properties of epitaxial thin films of c-axis oriented metastable four-layered hexagonal BaRuO3. *Applied Physics Letters*, **2000**, 77, 364-366	3.4	21
133	Metastable honeycomb SrTiO3/SrIrO3 heterostructures. *Applied Physics Letters*, **2016**, 108, 151604	3.4	21
132	Pascal conductance series in ballistic one-dimensional LaAlO/SrTiO channels. *Science*, **2020**, 367, 769-772	33.3	20
131	Tailoring the domain structure of epitaxial BiFeO3 thin films. *Current Opinion in Solid State and Materials Science*, **2014**, 18, 39-45	12	20
130	Phase-incoherent superconducting pairs in the normal state of Ba(Fe(1-x)Co(x))4As *Physical Review Letters*, **2010**, 105, 167003	7.4	20

129	Scaling of electroresistance effect in fully integrated ferroelectric tunnel junctions. *Applied Physics Letters*, **2016**, 108, 152904	3.4	20
128	Tunable Electron-Electron Interactions in LaAlO3/SrTiO3 Nanostructures. *Physical Review X*, **2016**, 6,	9.1	20
127	Polarization relaxation kinetics in ultrathin ferroelectric capacitors. *Applied Physics Letters*, **2013**, 102, 092901	3.4	19
126	Influence of growth temperature on the vortex pinning properties of pulsed laser deposited YBa2Cu3O7 thin films. *Journal of Applied Physics*, **2008**, 103, 043913	2.5	19
125	Oxygen Stoichiometry Effect on Polar Properties of LaAlO3/SrTiO3. *Advanced Functional Materials*, **2018**, 28, 1707159	15.6	18
124	Effect of domain structure on dielectric nonlinearity in epitaxial BiFeO3 films. *Applied Physics Letters*, **2010**, 97, 262904	3.4	18
123	High-field properties of carbon-doped MgB2thin films by hybrid physical chemical vapor deposition using different carbon sources. *Superconductor Science and Technology*, **2011**, 24, 125014	3.1	17
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