

# Chang-Beom Eom

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Oxide Two-Dimensional Electron Gas with High Mobility at Room-Temperature.. <i>Advanced Science</i> , <b>2022</b> , e2105652	13.6	2
307	Electronic reconstruction at the polar (111)-oriented oxide interface. <i>APL Materials</i> , <b>2022</b> , 10, 031115	5.7	0
306	Nanoscale interplay of native point defects near Sr-deficient Sr <sub>x</sub> TiO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 043201	2.9	
305	Microscopic piezoelectric behavior of clamped and membrane (001) PMN-30PT thin films. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 202903	3.4	0
304	Relaxation timescales and electron-phonon coupling in optically pumped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> revealed by time-resolved Raman scattering. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	2
303	Low-voltage magnetoelectric coupling in membrane heterostructures. <i>Science Advances</i> , <b>2021</b> , 7, eabh2294	14.5	6
302	In-plane quasi-single-domain BaTiO via interfacial symmetry engineering. <i>Nature Communications</i> , <b>2021</b> , 12, 6784	17.4	5
301	Spin-neutral currents for spintronics. <i>Nature Communications</i> , <b>2021</b> , 12, 7061	17.4	5
300	Development and characterization of NbSn/AlO superconducting multilayers for particle accelerators. <i>Scientific Reports</i> , <b>2021</b> , 11, 7770	4.9	3
299	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	8
298	One-dimensional KronigPenney superlattices at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Nature Physics</i> , <b>2021</b> , 17, 782-787	16.2	2
297	Electronic and Structural Transitions of LaAlO /SrTiO Heterostructure Driven by Polar Field-Assisted Oxygen Vacancy Formation at the Surface. <i>Advanced Science</i> , <b>2021</b> , 8, e2002073	13.6	6
296	Gate-tunable optical extinction of graphene nanoribbon nanoclusters. <i>APL Materials</i> , <b>2021</b> , 9, 071101	5.7	0
295	Strain-Induced Interlayer Parallel-to-Antiparallel Magnetic Transitions of Twisted Bilayers. <i>Advanced Theory and Simulations</i> , <b>2021</b> , 4, 2000215	3.5	1
294	Antiferromagnetic half-skyrmions and bimerons at room temperature. <i>Nature</i> , <b>2021</b> , 590, 74-79	50.4	41
293	Analysis of Local Charges at Hetero-interfaces by Electron Holography - A Comparative Study of Different Techniques. <i>Ultramicroscopy</i> , <b>2021</b> , 231, 113236	3.1	1
292	Electronically reconfigurable complex oxide heterostructure freestanding membranes. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	4

291	Heterogeneous integration of single-crystalline rutile nanomembranes with steep phase transition on silicon substrates. <i>Nature Communications</i> , <b>2021</b> , 12, 5019	17.4	0
290	Hot Electron Tunneling in Pt/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures for Enhanced Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47208-47217	9.5	0
289	Light quantum control of persisting Higgs modes in iron-based superconductors. <i>Nature Communications</i> , <b>2021</b> , 12, 258	17.4	8
288	Mechanically induced ferroelectric switching in BaTiO <sub>3</sub> thin films. <i>Acta Materialia</i> , <b>2020</b> , 193, 151-162	8.4	12
287	Terahertz Second-Harmonic Generation from Lightwave Acceleration of Symmetry-Breaking Nonlinear Supercurrents. <i>Physical Review Letters</i> , <b>2020</b> , 124, 207003	7.4	24
286	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> thin films. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
285	New approaches for achieving more perfect transition metal oxide thin films. <i>APL Materials</i> , <b>2020</b> , 8, 040904	5.7	37
284	Strain-driven disproportionation at a correlated oxide metal-insulator transition. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
283	Charge density wave modulation in superconducting BaPbO <sub>3</sub> /BaBiO <sub>3</sub> superlattices. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
282	Pascal conductance series in ballistic one-dimensional LaAlO <sub>3</sub> /SrTiO <sub>3</sub> channels. <i>Science</i> , <b>2020</b> , 367, 769-772	3.3	20
281	Frictional drag between superconducting LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanowires. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 09LT01	1.8	0
280	Heterogeneous integration of single-crystalline complex-oxide membranes. <i>Nature</i> , <b>2020</b> , 578, 75-81	50.4	107
279	Realization of Epitaxial Thin Films of the Topological Crystalline Insulator Sr SnO. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000809	24	8
278	Engineered spin-orbit interactions in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> -based 1D serpentine electron waveguides. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	3
277	Epitaxial antiperovskite/perovskite heterostructures for materials design. <i>Science Advances</i> , <b>2020</b> , 6, eaba4017	14.3	9
276	Gate-Tunable Optical Nonlinearities and Extinction in Graphene/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanostructures. <i>Nano Letters</i> , <b>2020</b> , 20, 6966-6973	11.5	4
275	Controlling spin current polarization through non-collinear antiferromagnetism. <i>Nature Communications</i> , <b>2020</b> , 11, 4671	17.4	24
274	Superconductivity in undoped BaFeAs by tetrahedral geometry design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21170-21174	11.5	5

273	Nanoscale control of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> metal-insulator transition using ultra-low-voltage electron-beam lithography. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 253103	3.4	1
272	Direct Observation of Field-induced Modulation of Two-dimensional Electron Gas at Oxide Interfaces. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1848-1849	0.5	
271	Large and Reconfigurable Infrared Photothermoelectric Effect at Oxide Interfaces. <i>Nano Letters</i> , <b>2019</b> , 19, 7149-7154	11.5	3
270	Inhomogeneous energy landscape in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanostructures. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1194-1203	12.8	2
269	Magnetic-field control of ionic bonds on ferroelectric surfaces. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 091601	3.4	3
268	Ultrafast nonthermal terahertz electrodynamic and possible quantum energy transfer in the Nb <sub>3</sub> Sn superconductor. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	15
267	Reconfigurable edge-state engineering in graphene using LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 123103	3.4	4
266	Over 100-THz bandwidth selective difference frequency generation at LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanojunctions. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 24	16.7	4
265	. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 2186-2191	2.9	3
264	Long-Range Non-Coulombic Electron-Electron Interactions between LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanowires. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900301	4.6	3
263	Anisotropic spin-orbit torque generation in epitaxial SrIrO <sub>3</sub> by symmetry design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16186-16191	11.5	35
262	Strain anisotropy and magnetic domain structures in multiferroic heterostructures: High-throughput finite-element and phase-field studies. <i>Acta Materialia</i> , <b>2019</b> , 176, 73-83	8.4	9
261	Lightwave-driven gapless superconductivity and forbidden quantum beats by terahertz symmetry breaking. <i>Nature Photonics</i> , <b>2019</b> , 13, 707-713	33.9	40
260	Coupled Nanowires: Long-Range Non-Coulombic Electron-Electron Interactions between LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanowires (Adv. Mater. Interfaces 15/2019). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1970098	4.6	3
259	Probing vacancy behavior across complex oxide heterointerfaces. <i>Science Advances</i> , <b>2019</b> , 5, eaau8467	14.3	12
258	Magnetoelectric Coupling by Piezoelectric Tensor Design. <i>Scientific Reports</i> , <b>2019</b> , 9, 19158	4.9	11
257	On the emergence of conductivity at SrTiO <sub>3</sub> -based oxide interfaces - an in-situ study. <i>Scientific Reports</i> , <b>2019</b> , 9, 18005	4.9	6
256	Oxygen Stoichiometry Effect on Polar Properties of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> . <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707159	15.6	18

255	One-Dimensional Nature of Superconductivity at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. <i>Physical Review Letters</i> , <b>2018</b> , 120, 147001	7.4	23
254	Direct observation of a two-dimensional hole gas at oxide interfaces. <i>Nature Materials</i> , <b>2018</b> , 17, 231-236	7	116
253	Direct imaging of the electron liquid at oxide interfaces. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 198-203	28.7	25
252	Shubnikov-de Haas-like Quantum Oscillations in Artificial One-Dimensional LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Electron Channels. <i>Physical Review Letters</i> , <b>2018</b> , 120, 076801	7.4	12
251	Graphene-Complex-Oxide Nanoscale Device Concepts. <i>ACS Nano</i> , <b>2018</b> , 12, 6128-6136	16.7	5
250	Optical control of polarization in ferroelectric heterostructures. <i>Nature Communications</i> , <b>2018</b> , 9, 3344	17.4	69
249	Terahertz-light quantum tuning of a metastable emergent phase hidden by superconductivity. <i>Nature Materials</i> , <b>2018</b> , 17, 586-591	27	37
248	Observation of magnetic vortex pairs at room temperature in a planar FeO/Co heterostructure. <i>Nature Materials</i> , <b>2018</b> , 17, 581-585	27	45
247	Identification of a functional point defect in SrTiO <sub>3</sub> . <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	13
246	Tunneling Hot Spots in Ferroelectric SrTiO <sub>3</sub> . <i>Nano Letters</i> , <b>2018</b> , 18, 491-497	11.5	23
245	Quantized Ballistic Transport of Electrons and Electron Pairs in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 4473-4481	11.5	32
244	Isostructural metal-insulator transition in VO. <i>Science</i> , <b>2018</b> , 362, 1037-1040	33.3	94
243	Unconventional ferromagnetism in epitaxial (111) LaNiO <sub>3</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	7
242	Control of Epitaxial BaFeAs Atomic Configurations with Substrate Surface Terminations. <i>Nano Letters</i> , <b>2018</b> , 18, 6347-6352	11.5	11
241	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS <sub>2</sub> -BaTiO <sub>3</sub> -SrRuO Tunnel Junctions. <i>Nano Letters</i> , <b>2017</b> , 17, 922-927	11.5	53
240	Dynamic X-ray diffraction imaging of the ferroelectric response in bismuth ferrite. <i>Advanced Structural and Chemical Imaging</i> , <b>2017</b> , 3, 11	3.9	7
239	Lattice reorientation in tetragonal PMN-PT thin film induced by focused ion beam preparation for transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 055302	2.5	3
238	Surface magnetism and proximity effects in hexaboride thin films. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 102404	3.4	1

237	Room-Temperature Quantum Transport Signatures in Graphene/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603488	24	10
236	Interfacial B-site atomic configuration in polar (111) and non-polar (001) SrIrO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>APL Materials</i> , <b>2017</b> , 5, 096110	5.7	1
235	Electrostatically tuned dimensional crossover in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>APL Materials</i> , <b>2017</b> , 5, 106107	5.7	4
234	Electron-Lattice Coupling in Correlated Materials of Low Electron Occupancy. <i>Nano Letters</i> , <b>2017</b> , 17, 5458-5463	11.5	0
233	Origin of the emergence of higher T than bulk in iron chalcogenide thin films. <i>Scientific Reports</i> , <b>2017</b> , 7, 9994	4.9	16
232	Epitaxial thin films of Dirac semimetal antiperovskite Cu <sub>3</sub> PdN. <i>APL Materials</i> , <b>2017</b> , 5, 096103	5.7	8
231	Epitaxial VO <sub>2</sub> thin film-based radio-frequency switches with thermal activation. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 063110	3.4	14
230	Sharpened VO Phase Transition via Controlled Release of Epitaxial Strain. <i>Nano Letters</i> , <b>2017</b> , 17, 5614-5619	11.5	60
229	Tailoring the Doping Mechanisms at Oxide Interfaces in Nanoscale. <i>Nano Letters</i> , <b>2017</b> , 17, 5620-5625	11.5	7
228	On the persistence of polar domains in ultrathin ferroelectric capacitors. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 284001	1.8	12
227	Direct imaging of sketched conductive nanostructures at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 233104	3.4	2
226	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO <sub>3</sub> heterostructures. <i>Nature Communications</i> , <b>2017</b> , 8, 1583	17.4	35
225	Uniform sputter deposition of high-quality epitaxial complex oxide thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 060607	2.9	7
224	In-situ probing of coupled atomic restructuring and metallicity of oxide heterointerfaces induced by polar adsorbates. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 141604	3.4	2
223	Micrometer-Scale Ballistic Transport of Electron Pairs in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanowires. <i>Physical Review Letters</i> , <b>2016</b> , 117, 096801	7.4	23
222	Scanning tunneling microscopy of an interfacial two-dimensional electron gas in oxide heterostructures. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	2
221	Giant conductivity switching of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterointerfaces governed by surface protonation. <i>Nature Communications</i> , <b>2016</b> , 7, 10681	17.4	57
220	Imprint Control of BaTiO <sub>3</sub> Thin Films via Chemically Induced Surface Polarization Pinning. <i>Nano Letters</i> , <b>2016</b> , 16, 2400-6	11.5	42

219	Tailoring LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface Metallicity by Oxygen Surface Adsorbates. <i>Nano Letters</i> , <b>2016</b> , 16, 2739-43	11.5	28
218	Charge Transfer to LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interfaces Controlled by Surface Water Adsorption and Proton Hopping. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5453-5459	15.6	15
217	Metastable honeycomb SrTiO <sub>3</sub> /SrIrO <sub>3</sub> heterostructures. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 151604	3.4	21
216	Scaling of electroresistance effect in fully integrated ferroelectric tunnel junctions. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152904	3.4	20
215	Real-time and in situ monitoring of sputter deposition with RHEED for atomic layer controlled growth. <i>APL Materials</i> , <b>2016</b> , 4, 086111	5.7	12
214	Tunable Electron-Electron Interactions in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Nanostructures. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	20
213	Electro-mechanical response of top-gated LaAlO <sub>3</sub> /SrTiO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 025309	2.5	9
212	Visualization of dielectric constant-electric field-temperature phase maps for imprinted relaxor ferroelectric thin films. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 132902	3.4	5
211	Reversible tuning of two-dimensional electron gases in oxide heterostructures by chemical surface modification. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 191604	3.4	3
210	Polar metals by geometric design. <i>Nature</i> , <b>2016</b> , 533, 68-72	50.4	203
209	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. <i>Nano Letters</i> , <b>2016</b> , 16, 6460-6466	11.5	30
208	Electric field effects in graphene/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures and nanostructures. <i>APL Materials</i> , <b>2015</b> , 3, 062502	5.7	16
207	Photoconductive response of a single Au nanorod coupled to LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanowires. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 211101	3.4	6
206	Electron pairing without superconductivity. <i>Nature</i> , <b>2015</b> , 521, 196-9	50.4	108
205	Crystalline symmetry controlled magnetic switching in epitaxial (111) La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. <i>APL Materials</i> , <b>2015</b> , 3, 062501	5.7	12
204	Mechanical Tuning of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface Conductivity. <i>Nano Letters</i> , <b>2015</b> , 15, 3547-51	11.5	61
203	Epitaxial CrN thin films with high thermoelectric figure of merit. <i>Advanced Materials</i> , <b>2015</b> , 27, 3032-7	24	45
202	Gate-tunable superconducting weak link behavior in top-gated LaAlO <sub>3</sub> -SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 106, 212601	3.4	8

201	Atomic and electronic structures of superconducting BaFe <sub>2</sub> As <sub>2</sub> /SrTiO <sub>3</sub> superlattices. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
200	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , <b>2015</b> , 349, 1314-7	33.3	198
199	Nanomechanics of flexoelectric switching. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	41
198	Influence of interfacial coherency on ferroelectric switching of superlattice BaTiO <sub>3</sub> /SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 107, 122906	3.4	11
197	Contact resistance to SrRuO <sub>3</sub> and La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> epitaxial films. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 242905	3.4	8
196	Energy landscape scheme for an intuitive understanding of complex domain dynamics in ferroelectric thin films. <i>Scientific Reports</i> , <b>2015</b> , 5, 11625	4.9	2
195	Preface for Special Topic: Frontiers in Oxides: Properties and Electronic Applications. <i>APL Materials</i> , <b>2015</b> , 3, 062201	5.7	1
194	Electromechanics of Ferroelectric-Like Behavior of LaAlO <sub>3</sub> Thin Films. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6538-6544	15.6	33
193	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 6484-92	16.7	191
192	CMOS compatible integrated ferroelectric tunnel junctions (FTJ) <b>2015</b> ,		3
191	Tailoring the domain structure of epitaxial BiFeO <sub>3</sub> thin films. <i>Current Opinion in Solid State and Materials Science</i> , <b>2014</b> , 18, 39-45	12	20
190	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , <b>2014</b> , 5, 3801	17.4	110
189	Room-temperature electronically-controlled ferromagnetism at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Nature Communications</i> , <b>2014</b> , 5, 5019	17.4	102
188	Development of very high J <sub>c</sub> in Ba(Fe <sub>1-x</sub> Cox) <sub>2</sub> As <sub>2</sub> thin films grown on CaF <sub>2</sub> . <i>Scientific Reports</i> , <b>2014</b> , 4, 7305	4.9	36
187	Non-local piezoresponse of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161606	3.4	14
186	Electrodynamics of superconducting pnictide superlattices. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 222601	3.4	4
185	Magnetic field tuned superconductor-to-insulator transition at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	8
184	Piezoelectric enhancement of (PbTiO <sub>3</sub> ) <sub>m</sub> /(BaTiO <sub>3</sub> ) <sub>n</sub> ferroelectric superlattices through domain engineering. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	7



183	Ferroelectric tunnel junctions with graphene electrodes. <i>Nature Communications</i> , <b>2014</b> , 5, 5518	17.4	85
182	Creation of a two-dimensional electron gas and conductivity switching of nanowires at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface grown by 90° off-axis sputtering. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 071604	3.4	10
181	Surface stability of epitaxial La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films on (111)-oriented SrTiO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 183512	2.5	29
180	Anomalous high mobility in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 364-8	11.5	33
179	Retention of resistance states in ferroelectric tunnel memristors. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 142908	3.4	24
178	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. <i>Nature Communications</i> , <b>2013</b> , 4,	17.4	128
177	Epitaxial Al <sub>2</sub> O <sub>3</sub> capacitors for low microwave loss superconducting quantum circuits. <i>APL Materials</i> , <b>2013</b> , 1, 042115	5.7	6
176	Parallel Conductive-AFM Lithography on LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interfaces. <i>IEEE Nanotechnology Magazine</i> , <b>2013</b> , 12, 518-520	2.6	4
175	Epitaxial integration of perovskite-based multifunctional oxides on silicon. <i>Acta Materialia</i> , <b>2013</b> , 61, 2734-2750	8.4	85
174	Polarization relaxation kinetics in ultrathin ferroelectric capacitors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 092901	3.4	19
173	Artificially engineered superlattices of pnictide superconductors. <i>Nature Materials</i> , <b>2013</b> , 12, 392-6	27	62
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157	Switchable induced polarization in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Nano Letters</i> , <b>2012</b> , 12, 1765-71	11.5	159
156	Nonlinearity in the high-electric-field piezoelectricity of epitaxial BiFeO <sub>3</sub> on SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 100, 062906	3.4	13
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38	Structural tuning of the magnetic behavior in spinel-structure ferrite thin films. <i>Physical Review B</i> , <b>2000</b> , 62, R779-R782	3-3	143
37	Thickness-dependent magnetotransport in ultrathin manganite films. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3017-3019	3-4	338
36	Effect of three-dimensional strain states on magnetic anisotropy of La <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> epitaxial thin films. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1615-1617	3-4	116
35	Effects of film thickness and lattice mismatch on strain states and magnetic properties of La <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 4794-4796	2-5	85
34	Magnetotransport and magnetic domain structure in compressively strained colossal magnetoresistance films. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2295-2297	3-4	110
33	Single crystal thin films of conductive oxides SrRuO <sub>3</sub> and ferroelectric heterostructures. <i>Integrated Ferroelectrics</i> , <b>1998</b> , 21, 251-261	0-8	9
32	Basic sputtering process and ferroelectric properties of single-domain single-crystal thin films of PbTiO <sub>3</sub> . <i>Integrated Ferroelectrics</i> , <b>1998</b> , 21, 451-460	0-8	8
31	Domain structure of epitaxial SrRuO <sub>3</sub> thin films on miscut (001) SrTiO <sub>3</sub> substrates. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 2963-2965	3-4	78
30	Epitaxial thin film heterostructures of relaxor ferroelectric Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> . <i>Integrated Ferroelectrics</i> , <b>1998</b> , 21, 499-509	0-8	15
29	Direct measurement of strain effects on magnetic and electrical properties of epitaxial SrRuO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 978-980	3-4	230
28	Three-dimensional strain states and crystallographic domain structures of epitaxial colossal magnetoresistive La <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3294-3296	3-4	197
27	Control of the growth and domain structure of epitaxial SrRuO <sub>3</sub> thin films by vicinal (001) SrTiO <sub>3</sub> substrates. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 1962-1964	3-4	111
26	Growth mechanisms of epitaxial metallic oxide SrRuO <sub>3</sub> thin films studied by scanning tunneling microscopy. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1171-1173	3-4	87
25	Strain stabilized metal-insulator transition in epitaxial thin films of metallic oxide CaRuO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>1997</b> , 70, 3035-3037	3-4	63
24	Uniform deposition of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films over an 8 inch diameter area by a 90° off-axis sputtering technique. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 3911-3913	3-4	32
23	Hall-effect sign reversal in CaRuO <sub>3</sub> and SrRuO <sub>3</sub> thin films. <i>Physical Review B</i> , <b>1996</b> , 54, 8996-8999	3-3	64
22	Magnetoresistance properties of thin films of the metallic oxide ferromagnet SrRuO <sub>3</sub> . <i>Physical Review B</i> , <b>1995</b> , 52, 3459-3465	3-3	66

21	Fabrication and properties of epitaxial ferroelectric heterostructures with (SrRuO <sub>3</sub> ) isotropic metallic oxide electrodes. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 2570-2572	3-4	394
20	Microwave penetration depth measurements on Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films. <i>Physical Review Letters</i> , <b>1993</b> , 71, 781-784	7-4	135
19	Thermal diffusion, interfacial thermal barrier, and ultrasonic propagation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films: Surface-selective transient-grating experiments. <i>Physical Review B</i> , <b>1992</b> , 45, 10009-10021	3-3	65
18	Single-Crystal Epitaxial Thin Films of the Isotropic Metallic Oxides Sr <sub>1-x</sub> Ca <sub>x</sub> RuO <sub>3</sub> (0 $\leq x \leq 1$ ). <i>Science</i> , <b>1992</b> , 258, 1766-9	33-3	500
17	A-axis-oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superlattices: Growth and transport properties. <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 183, 224-240	5-7	7
16	Absence of weak-link behaviour in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> grains connected by 90° [010] twist boundaries. <i>Nature</i> , <b>1991</b> , 353, 544-547	50-4	75
15	Microstructure of ultrathin films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> on MgO. <i>Physical Review B</i> , <b>1991</b> , 43, 13007-13018	3-3	122
14	Resistive loss at 10 GHz in c-axis-aligned in-situ-grown YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films. <i>Physical Review B</i> , <b>1991</b> , 43, 2922-2933	3-3	144
13	A-Axis--Oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Superlattices. <i>Science</i> , <b>1991</b> , 251, 780-3	33-3	54
12	Morphology and Defect Structure of Sputtered High-Quality In-Situ YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 183, 363		12
11	Epitaxial and Smooth Films of a-Axis YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Science</i> , <b>1990</b> , 249, 1549-52	33-3	218
10	Test for nonreciprocal circular birefringence in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films as evidence for broken time-reversal symmetry. <i>Physical Review Letters</i> , <b>1990</b> , 65, 123-126	7-4	155
9	Distribution of flux-pinning energies in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> and Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> from flux noise. <i>Physical Review Letters</i> , <b>1990</b> , 64, 72-75	7-4	122
8	Critical currents, pinning, and edge barriers in narrow YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films. <i>Physical Review B</i> , <b>1990</b> , 41, 11203-11208	3-3	75
7	YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superconducting films with low microwave surface resistance over large areas. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 520-522	3-4	94
6	Anisotropic proximity coupling in small YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -normal-Pb junctions. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1152-1154	3-4	64
5	In situ grown YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films from single-target magnetron sputtering. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 595-597	3-4	391
4	Nature of the states near the Fermi level of the layered superconductors of Bi <sub>2</sub> Ca <sub>1</sub> Sr <sub>2</sub> Cu <sub>2</sub> O <sub>8</sub> and Bi <sub>2</sub> Sr <sub>2</sub> CuO <sub>6</sub> . <i>Physical Review B</i> , <b>1989</b> , 39, 823-826	3-3	54

3	Scanning tunneling microscopy of the a-b planes of $\text{Bi}_2(\text{Ca,Sr})_3\text{Cu}_2\text{O}_8$ single crystal and thin film. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 2071-2073	3-4	57
2	Preparation of oriented Bi-Ca-Sr-Cu-O thin films using pulsed laser deposition. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 337-339	3-4	72
1	Thick film sol gel PZT transducer using dip coating		4