

Marin Alexe

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.

327
papers

13,921
citations

63
h-index

107
g-index

359
ext. papers

15,298
ext. citations

6.8
avg, IF

6.58
L-index

#	Paper	IF	Citations
327	Fast Photostriction in Ferroelectrics.. <i>Small</i> , 2022 , e2106275	11	0
326	Dual-Ferroelectric-Coupling-Engineered Two-Dimensional Transistors for Multifunctional In-Memory Computing.. <i>ACS Nano</i> , 2022 ,	16.7	10
325	Ferroelectric incommensurate spin crystals.. <i>Nature</i> , 2022 , 602, 240-244	50.4	5
324	Fast Photostriction in Ferroelectrics (Small 7/2022). <i>Small</i> , 2022 , 18, 2270033	11	
323	Boosting Piezoelectricity Under Illumination via the Bulk Photovoltaic Effect and the Schottky Barrier Effect in BiFeO. <i>Advanced Materials</i> , 2021 , e2105845	24	2
322	Quantitative Local Probing of Polarization with Application on HfO ₂ -Based Thin Films.. <i>Small Methods</i> , 2021 , 5, e2100781	12.8	1
321	Real-space observation of ferroelectrically induced magnetic spin crystal in SrRuO ₃ . <i>Nature Communications</i> , 2021 , 12, 2007	17.4	7
320	Anisotropic Ion Migration and Electronic Conduction in van der Waals Ferroelectric CuInPS. <i>Nano Letters</i> , 2021 , 21, 995-1002	11.5	14
319	Emerging Opportunities for 2D Semiconductor/Ferroelectric Transistor-Structure Devices. <i>Advanced Materials</i> , 2021 , 33, e2005620	24	20
318	Deep-Level Traps Responsible for Persistent Photocurrent in Pulsed-Laser-Deposited BiGaO ₃ Thin Films. <i>Crystals</i> , 2021 , 11, 1046	2.3	0
317	Emergent Antipolar Phase in BiFeO ₃ -LaSrMnO Superlattice. <i>Nano Letters</i> , 2020 , 20, 6045-6050	11.5	4
316	Structural and photoelectric properties of tensile strained BiFeO ₃ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
315	Dissolvable Memristors for Physically Transient Neuromorphic Computing Applications. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 310-315	4	8
314	Artificial Optoelectronic Synapses Based on Ferroelectric Field-Effect Enabled 2D Transition Metal Dichalcogenide Memristive Transistors. <i>ACS Nano</i> , 2020 , 14, 746-754	16.7	91
313	Photovoltaic and flexible deep ultraviolet wavelength detector based on novel BiGaO ₃ /muscovite heteroepitaxy. <i>Scientific Reports</i> , 2020 , 10, 16098	4.9	13
312	Polarization Screening Mechanisms at LaSrMnO-PbTiO ₃ Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10657-10663	9.5	5
311	Piezoelectric and pyroelectric effects induced by interface polar symmetry. <i>Nature</i> , 2020 , 584, 377-381	50.4	47

310	Ferroelastic domain identification in BiFeO crystals using Raman spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 379	4.9	11
309	Light-Controlled Nanoscopic Writing of Electronic Memories Using the Tip-Enhanced Bulk Photovoltaic Effect. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8276-8283	9.5	8
308	Strain-gradient mediated local conduction in strained bismuth ferrite films. <i>Nature Communications</i> , 2019 , 10, 2791	17.4	19
307	Flexible Memristors Based on Single-Crystalline Ferroelectric Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23313-23319	9.5	33
306	Time-resolved X-ray diffraction study of the structural dynamics in an epitaxial ferroelectric thin Pb(Zr _{0.2} Ti _{0.8})O ₃ film induced by sub-coercive fields. <i>Applied Physics Letters</i> , 2019 , 114, 162907	3.4	4
305	Piezoresponse force microscopy and nanoferroic phenomena. <i>Nature Communications</i> , 2019 , 10, 1661	17.4	146
304	Non-conventional mechanism of ferroelectric fatigue via cation migration. <i>Nature Communications</i> , 2019 , 10, 3064	17.4	16
303	Topological domain states and magnetoelectric properties in multiferroic nanostructures. <i>National Science Review</i> , 2019 , 6, 684-702	10.8	19
302	Bi-ferroic memristive properties of multiferroic tunnel junctions. <i>Applied Physics Letters</i> , 2018 , 112, 102905	9.4	11
301	Flexo-photovoltaic effect. <i>Science</i> , 2018 , 360, 904-907	33.3	147
300	Light-Induced Reversible Control of Ferroelectric Polarization in BiFeO. <i>Advanced Materials</i> , 2018 , 30, e1704908	24	74
299	Ultrafast current imaging by Bayesian inversion. <i>Nature Communications</i> , 2018 , 9, 513	17.4	13
298	Direct Probing of Polarization Charge at Nanoscale Level. <i>Advanced Materials</i> , 2018 , 30, 1703675	24	18
297	Photovoltaics in Ferroelectric Materials: Origin, Challenges and Opportunities 2018 , 103-140		
296	Coherent Fe-rich nano-scale perovskite oxide phase in epitaxial Sr ₂ FeMoO ₆ films grown on cubic and scandate substrates. <i>Journal of Applied Physics</i> , 2017 , 121, 023906	2.5	5
295	Electrostatic-free piezoresponse force microscopy. <i>Scientific Reports</i> , 2017 , 7, 41657	4.9	72
294	Enhancement of Local Photovoltaic Current at Ferroelectric Domain Walls in BiFeO. <i>Scientific Reports</i> , 2017 , 7, 43070	4.9	45
293	Antiferroelectric Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700126	6.4	13

292	Bulk photovoltaic effect in monodomain BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2017 , 110, 183902	3.4	42
291	Simultaneous dynamic characterization of charge and structural motion during ferroelectric switching. <i>Physical Review B</i> , 2017 , 96,	3.3	6
290	Domain wall motion in Pb(ZrTi)O epitaxial thin films. <i>Scientific Reports</i> , 2017 , 7, 3444	4.9	11
289	Magnetocapacitance in LaSrMnO/Pb(ZrTi)O/LaSrMnO multiferroic heterostructures. <i>Scientific Reports</i> , 2017 , 7, 6563	4.9	5
288	Flexible Quasi-Two-Dimensional CoFeO Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. <i>ACS Nano</i> , 2017 , 11, 8002-8009	16.7	73
287	Multiferroics for Spintronics. <i>Series in Materials Science and Engineering</i> , 2016 , 139-162		
286	Polarization curling and flux closures in multiferroic tunnel junctions. <i>Nature Communications</i> , 2016 , 7, 13484	17.4	44
285	Direct observation of polar tweed in LaAlO ₃ . <i>Scientific Reports</i> , 2016 , 6, 27193	4.9	38
284	Photovoltaics with Ferroelectrics: Current Status and Beyond. <i>Advanced Materials</i> , 2016 , 28, 5153-68	24	226
283	Microstructure defects mediated charge transport in Nb-doped epitaxial BaTiO ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 175302	3	7
282	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. <i>Physics Reports</i> , 2016 , 653, 1-40	27.7	112
281	Optical properties of epitaxial BiFeO ₃ thin films grown on LaAlO ₃ . <i>Applied Physics Letters</i> , 2015 , 106, 012908	3.4	44
280	Microstructure and properties of epitaxial Sr ₂ FeMoO ₆ films containing SrMoO ₄ precipitates. <i>Journal of Materials Science</i> , 2015 , 50, 3131-3138	4.3	13
279	Artefacts in geometric phase analysis of compound materials. <i>Ultramicroscopy</i> , 2015 , 157, 91-7	3.1	45
278	Controlling Resistance Switching Polarities of Epitaxial BaTiO ₃ Films by Mediation of Ferroelectricity and Oxygen Vacancies. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500069	6.4	43
277	Atomic-Scale Structure and Properties of Epitaxial PbZr _{0.2} Ti _{0.8} O ₃ /SrRuO ₃ Heterointerfaces. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500087	4.6	8
276	Dual gate control of bulk transport and magnetism in the spin-orbit insulator Sr ₂ IrO ₄ . <i>Physical Review B</i> , 2015 , 91,	3.3	20
275	The nature of magnetoelectric coupling in Pb(Zr,Ti)O ₃ -Pb(Fe,Ta)O ₃ . <i>Advanced Materials</i> , 2015 , 27, 6068-73	4.7	46

274	Nanocrystalline Ferroelectric BiFeO ₃ Thin Films by Low-Temperature Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 6322-6328	9.6	20
273	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. <i>Acta Materialia</i> , 2015 , 82, 356-368	8.4	21
272	Four-state ferroelectric spin-valve. <i>Scientific Reports</i> , 2015 , 5, 9749	4.9	34
271	Origin of tunnel electroresistance effect in PbTiO ₃ -based multiferroic tunnel junctions. <i>Physical Review B</i> , 2015 , 92,	3.3	20
270	Electric-Field Control of the Orbital Occupancy and Magnetic Moment of a Transition-Metal Oxide. <i>Physical Review Letters</i> , 2015 , 115, 157401	7.4	39
269	Domain imaging on multiferroic BiFeO ₃ (001) by linear and circular dichroism in threshold photoemission. <i>Journal of Applied Physics</i> , 2015 , 118, 224102	2.5	11
268	In-plane tunnelling field-effect transistor integrated on Silicon. <i>Scientific Reports</i> , 2015 , 5, 14367	4.9	5
267	Electronic Origin and Tailoring of Photovoltaic Effect in BiFeO ₃ Single Crystals. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500139	6.4	32
266	Fabrication and orientation control of highly cation-ordered epitaxial PbSc _{0.5} Ta _{0.5} O ₃ thin films on Si (100). <i>Journal of Applied Physics</i> , 2015 , 117, 044102	2.5	5
265	Multiferroic iron oxide thin films at room temperature. <i>Advanced Materials</i> , 2014 , 26, 4645-52	24	134
264	Microstructure of highly strained BiFeO ₃ thin films: Transmission electron microscopy and electron-energy loss spectroscopy studies. <i>Journal of Applied Physics</i> , 2014 , 115, 043526	2.5	16
263	Tailoring the interfacial magnetic anisotropy in multiferroic field-effect devices. <i>Physical Review B</i> , 2014 , 90,	3.3	23
262	Spintronic functionality of BiFeO ₃ domain walls. <i>Advanced Materials</i> , 2014 , 26, 7078-82	24	44
261	Piezoelectric non-linearity in PbSc _{0.5} Ta _{0.5} O ₃ thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 1229-1233	3.9	2
260	Nanoscale Bi ₂ FeO ₆ precipitates in BiFeO ₃ thin films: a metastable Aurivillius phase. <i>Journal of Materials Science</i> , 2014 , 49, 6952-6960	4.3	8
259	Persistent photoconductivity in strained epitaxial BiFeO ₃ thin films. <i>Nano Letters</i> , 2014 , 14, 5224-8	11.5	57
258	Programmable ferroelectric tunnel memristor. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	16
257	Origins of domain wall pinning in ferroelectric nanocapacitors. <i>Nano Convergence</i> , 2014 , 1,	9.2	13

256	Thickness-dependent cation order and disorder in PbSc _{0.5} Ta _{0.5} O ₃ thin films grown by pulsed laser deposition. <i>New Journal of Physics</i> , 2014 , 16, 013059	2.9	6
255	Crossover of conduction mechanism in Sr ₂ IrO ₄ epitaxial thin films. <i>Applied Physics Letters</i> , 2014 , 105, 082407	3.4	46
254	Sub-band level-assisted photoconduction in epitaxial BiFeO ₃ films. <i>Applied Physics Letters</i> , 2014 , 105, 122905	3.4	6
253	Studies of the Room-Temperature Multiferroic Pb(FeTa)(ZrTi)O: Resonant Ultrasound Spectroscopy, Dielectric, and Magnetic Phenomena. <i>Advanced Functional Materials</i> , 2014 , 24, 2993-3002	15.6	34
252	Aberration-Corrected Transmission Electron Microscopy Reveals Nanoscale Disorder in Bismuth Ferrite Single Crystals. <i>Microscopy and Microanalysis</i> , 2014 , 20, 938-939	0.5	
251	Nucleation-induced self-assembly of multiferroic BiFeO ₃ -CoFe ₂ O ₄ nanocomposites. <i>Nano Letters</i> , 2013 , 13, 3884-9	11.5	60
250	Microstructure and ferroelectric properties of epitaxial cation ordered PbSc _{0.5} Ta _{0.5} O ₃ thin films grown on electroded and buffered Si(100). <i>Journal of Applied Physics</i> , 2013 , 114, 084107	2.5	16
249	Role of domain walls in the abnormal photovoltaic effect in BiFeO ₃ . <i>Nature Communications</i> , 2013 , 4,	17.4	364
248	BaTiO ₃ /Ferrite composites with magnetocapacitance and hard/soft magnetic properties. <i>Phase Transitions</i> , 2013 , 86, 670-680	1.3	15
247	Nanosession: Multiferroic Thin Films and Heterostructures 2013 , 323-334		
246	Universality of Polarization Switching Dynamics in Ferroelectric Capacitors Revealed by 5D Piezoresponse Force Microscopy. <i>Advanced Functional Materials</i> , 2013 , 23, 3971-3979	15.6	20
245	Electronic transport in (La,Sr)MnO ₃ -ferroelectric-(La,Sr)MnO ₃ epitaxial structures. <i>Journal of Applied Physics</i> , 2013 , 113, 224103	2.5	14
244	Enhanced ferroelectric and dielectric properties of (111)-oriented highly cation-ordered PbSc _{0.5} Ta _{0.5} O ₃ thin films. <i>Journal of Applied Physics</i> , 2013 , 114, 224109	2.5	4
243	Local properties of the surface layer(s) of BiFeO ₃ single crystals. <i>Journal of Applied Physics</i> , 2013 , 113, 187220	2.5	14
242	Growth temperature dependence of crystal symmetry in Nb-doped BaTiO ₃ thin films. <i>Journal of Advanced Dielectrics</i> , 2013 , 03, 1350009	1.3	4
241	Field dependency of magnetoelectric coupling in multilayered nanocomposite arrays: Possible contribution from surface spins. <i>Applied Physics Letters</i> , 2012 , 101, 222902	3.4	10
240	First-order reversal curve probing of spatially resolved polarization switching dynamics in ferroelectric nanocapacitors. <i>ACS Nano</i> , 2012 , 6, 491-500	16.7	47
239	Regular nanodomain vertex arrays in BiFeO ₃ single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	7

238	Magnetite (Fe ₃ O ₄): a new variant of relaxor multiferroic?. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 086007	1.8	33
237	A photoferroelectric material is more than the sum of its parts. <i>Nature Materials</i> , 2012 , 11, 260	27	184
236	Reversible electrical switching of spin polarization in multiferroic tunnel junctions. <i>Nature Materials</i> , 2012 , 11, 289-93	27	363
235	Local mapping of generation and recombination lifetime in BiFeO ₃ single crystals by scanning probe photoinduced transient spectroscopy. <i>Nano Letters</i> , 2012 , 12, 2193-8	11.5	60
234	Surface phase transitions in BiFeO ₃ below room temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	59
233	Tunnel electroresistance in junctions with ultrathin ferroelectric Pb(Zr _{0.2} Ti _{0.8})O ₃ barriers. <i>Applied Physics Letters</i> , 2012 , 100, 232902	3.4	85
232	One-Dimensional Ferroelectrics: Nanowires and Nanotubes. <i>Ferroelectrics</i> , 2012 , 433, 53-64	0.6	9
231	Fabrication and characterization of extended arrays of Ag ₂ S/Ag nanodot resistive switches. <i>Applied Physics Letters</i> , 2011 , 98, 243109	3.4	40
230	Room-temperature ferroelectric resistive switching in ultrathin Pb(Zr _{0.2} Ti _{0.8})O ₃ films. <i>ACS Nano</i> , 2011 , 5, 6032-8	16.7	143
229	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , 2011 , 5, 9104-12	16.7	65
228	Epitaxial strain stabilization of a ferroelectric phase in PbZrO ₃ thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	43
227	Tip-enhanced photovoltaic effects in bismuth ferrite. <i>Nature Communications</i> , 2011 , 2,	17.4	325
226	Atomically smooth p-doped silicon nanowires catalyzed by aluminum at low temperature. <i>ACS Nano</i> , 2011 , 5, 1313-20	16.7	41
225	Direct observation of continuous electric dipole rotation in flux-closure domains in ferroelectric Pb(Zr,Ti)O ₃ . <i>Science</i> , 2011 , 331, 1420-3	33.3	322
224	Skin layer of BiFeO ₃ single crystals. <i>Physical Review Letters</i> , 2011 , 106, 236101	7.4	72
223	Nanostructured ferroelectrics: fabrication and structure-property relations. <i>Advanced Materials</i> , 2011 , 23, 4599-613	24	70
222	Magnetoelectric coupling in ordered arrays of multilayered heteroepitaxial BaTiO ₃ /CoFe ₂ O ₄ nanodots. <i>Nano Letters</i> , 2011 , 11, 3202-6	11.5	86
221	Crystal defects and cation ordering domains in epitaxial PbSc _{0.5} Ta _{0.5} O ₃ relaxor ferroelectric thin films investigated by high-resolution transmission electron microscopy. <i>Acta Materialia</i> , 2011 , 59, 4030-4042	8.4	11

220	Cross talk by extensive domain wall motion in arrays of ferroelectric nanocapacitors. <i>Applied Physics Letters</i> , 2011 , 99, 202901	3.4	7
219	Bubble polarization domain patterns in periodically ordered epitaxial ferroelectric nanodot arrays. <i>Journal of Applied Physics</i> , 2011 , 110, 052006	2.5	10
218	Domain structures and piezoelectric properties of Pb(Zr _{0.2} Ti _{0.8})O ₃ nanocapacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 044102	2.5	6
217	Ultrafast manipulation of hard x-rays by efficient Bragg switches. <i>Applied Physics Letters</i> , 2010 , 96, 161906	3.4	20
216	Anisotropy of domain growth in epitaxial ferroelectric capacitors. <i>Applied Physics Letters</i> , 2010 , 96, 112903	3.4	15
215	Individual switching of film-based nanoscale epitaxial ferroelectric capacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 042005	2.5	18
214	Switching kinetics in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 084111	2.5	35
213	Substrate influence on the optical and structural properties of pulsed laser deposited BiFeO ₃ epitaxial films. <i>Journal of Applied Physics</i> , 2010 , 107, 123524	2.5	57
212	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. <i>Journal of Applied Physics</i> , 2010 , 107, 064314	2.5	73
211	Nanoscale properties of thin twin walls and surface layers in piezoelectric WO ₃ . <i>Applied Physics Letters</i> , 2010 , 96, 032904	3.4	84
210	Non-Kolmogorov-Avrami-Ishibashi switching dynamics in nanoscale ferroelectric capacitors. <i>Nano Letters</i> , 2010 , 10, 1266-70	11.5	52
209	Ultrahigh density array of epitaxial ferroelectric nanoislands on conducting substrates. <i>Nano Letters</i> , 2010 , 10, 2141-6	11.5	67
208	Microstructure and properties of well-ordered multiferroic Pb(Zr,Ti)O ₃ /CoFe(2)O(4) nanocomposites. <i>ACS Nano</i> , 2010 , 4, 1099-107	16.7	83
207	Electroresistance effects in ferroelectric tunnel barriers. <i>Physical Review B</i> , 2010 , 82,	3.3	130
206	Microstructural evolution of [PbZr _x Ti _{1-x} O ₃ /PbZr _y Ti _{1-y} O ₃] n epitaxial multilayers (x/y = 0.2/0.4, 0.4/0.6) dependence on layer thickness. <i>Philosophical Magazine</i> , 2010 , 90, 1359-1372	1.6	5
205	Analytical Aberration-Corrected STEM of Ferroelectric Functional Interfaces. <i>Microscopy and Microanalysis</i> , 2010 , 16, 82-83	0.5	
204	Reversible plasma switching in epitaxial BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 96, 202902	3.4	18
203	Optical properties of epitaxial BiFeO ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 1217-1220	2.6	23

202	Direct evidence for cation non-stoichiometry and Cottrell atmospheres around dislocation cores in functional oxide interfaces. <i>Advanced Materials</i> , 2010 , 22, 2430-4	24	52
201	Femtosecond X-ray diffraction from nanolayered oxides. <i>Physics Procedia</i> , 2010 , 3, 333-341		3
200	Optical characterisation of BiFeO ₃ epitaxial thin films grown by pulsed-laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 296-299		19
199	Preparation and elastic properties of helical nanotubes obtained by atomic layer deposition with carbon nanocoils as templates. <i>Small</i> , 2010 , 6, 910-4	11	51
198	Effect of a single dislocation in a heterostructure layer on the local polarization of a ferroelectric layer. <i>Physical Review Letters</i> , 2009 , 102, 117601	7-4	68
197	Epitaxial, cation-ordered, ferroelectric PbSc _{0.5} Ta _{0.5} O ₃ thin films prepared by pulsed laser deposition. <i>Applied Physics Letters</i> , 2009 , 95, 022907	3-4	10
196	Epitaxial thin films of the multiferroic double perovskite Bi ₂ FeCrO ₆ grown on (100)-oriented SrTiO ₃ substrates: Growth, characterization, and optimization. <i>Journal of Applied Physics</i> , 2009 , 105, 061621	2-5	62
195	Impact of misfit relaxation and a-domain formation on the electrical properties of tetragonal PbZr _{0.4} Ti _{0.6} O ₃ /PbZr _{0.2} Ti _{0.8} O ₃ thin film heterostructures: Experiment and theoretical approach. <i>Journal of Applied Physics</i> , 2009 , 105, 061607	2-5	13
194	Microring Resonators Fabrication by BCB Adhesive Wafer Bonding. <i>ECS Transactions</i> , 2009 , 16, 105-115	1	4
193	Impact of high interface density on ferroelectric and structural properties of PbZr _{0.2} Ti _{0.8} O ₃ /PbZr _{0.4} Ti _{0.6} O ₃ epitaxial multilayers. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 085305 ³		11
192	Wafer-scale arrays of epitaxial ferroelectric nanodiscs and nanorings. <i>Nanotechnology</i> , 2009 , 20, 015301	3-4	13
191	Orientation-dependent potential barriers in case of epitaxial PtBiFeO ₃ /BrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2009 , 94, 232902	3-4	56
190	High-Density Periodically Ordered Magnetic Cobalt Ferrite Nanodot Arrays by Template-Assisted Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2009 , 19, 3450-3455	15-6	67
189	Ordered Ferroelectric Lead Titanate Nanocellular Structure by Conversion of Anodic TiO ₂ Nanotubes. <i>Advanced Materials</i> , 2009 , 21, 3121-3125	24	68
188	Ferroelectric Switching in Multiferroic Magnetite (Fe ₃ O ₄) Thin Films. <i>Advanced Materials</i> , 2009 , 21, 4452-4455	24	132
187	Settling the "dead layer" debate in nanoscale capacitors. <i>Advanced Materials</i> , 2009 , 21, 4911-4914	24	87
186	Influence of long-range dipolar interactions on the phase stability and hysteresis shapes of ferroelectric and antiferroelectric multilayers. <i>Journal of Materials Science</i> , 2009 , 44, 5354-5363	4-3	5
185	Fabrication of epitaxial nanostructured ferroelectrics and investigation of their domain structures. <i>Journal of Materials Science</i> , 2009 , 44, 5167-5181	4-3	16

184	Structural defects and local chemistry across ferroelectric/electrode interfaces in epitaxial heterostructures. <i>Journal of Materials Science</i> , 2009 , 44, 5297-5306	4.3	14
183	Ultrafast structural dynamics of perovskite superlattices. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 83-90	2.6	16
182	Switching of magnetic anisotropy in epitaxial CoFe ₂ O ₄ thin films induced by SrRuO ₃ buffer layer. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 175006	3	56
181	Ferroelectric nanostructures. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 498		11
180	A novel approach for fabrication of bismuth-silicon dioxide core-shell structures by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7050		23
179	Vortex polarization states in nanoscale ferroelectric arrays. <i>Nano Letters</i> , 2009 , 9, 1127-31	11.5	175
178	Femtosecond X-ray Diffraction Study of the Ultrafast Coupling between Magnetization and Structure in the Ferromagnet SrRuO ₃ . <i>Springer Series in Chemical Physics</i> , 2009 , 107-109	0.3	
177	Ultrafast Structural Dynamics of Polar Solids Studied by Femtosecond X-Ray Diffraction. <i>Springer Series in Chemical Physics</i> , 2009 , 101-103	0.3	
176	Atomic-scale study of electric dipoles near charged and uncharged domain walls in ferroelectric films. <i>Nature Materials</i> , 2008 , 7, 57-61	27	400
175	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , 2008 , 7, 209-15	27	235
174	Individually addressable epitaxial ferroelectric nanocapacitor arrays with near Tb inch ⁻² density. <i>Nature Nanotechnology</i> , 2008 , 3, 402-7	28.7	254
173	The influence of the top-contact metal on the ferroelectric properties of epitaxial ferroelectric Pb(Zr _{0.2} Ti _{0.8})O ₃ thin films. <i>Journal of Applied Physics</i> , 2008 , 104, 114101	2.5	81
172	Enhanced ionic conductivity of AgI nanowires/AAO composites fabricated by a simple approach. <i>Nanotechnology</i> , 2008 , 19, 495706	3.4	15
171	Structural and multiferroic properties of epitaxial $\sqrt{2}\times\sqrt{2}$ Fe ₂ O ₃ /BiFeO ₃ /Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ composite bi-layers. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 112002	3	17
170	Interfacial strain effects in epitaxial multiferroic heterostructures of PbZr _x Ti _{1-x} O ₃ /La _{0.7} Sr _{0.3} MnO ₃ grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2008 , 92, 152506	3.4	36
169	Nanodomain faceting in ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 425222	1.8	21
168	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 342201	1.8	131
167	Single crystalline PZT films and the impact of extended structural defects on the ferroelectric properties 2008 , 695-723		1

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5	Blistering and exfoliation of hydrogen and helium implanted (100) GaAs		1

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