

Marin Alexe

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#	Paper	IF	Citations
327	NANO-phase SBT-family ferroelectric memories. <i>Integrated Ferroelectrics</i> , 1998 , 21, 1-14	0.8	406
326	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
325	Role of domain walls in the abnormal photovoltaic effect in BiFeO ₃ . <i>Nature Communications</i> , 2013 , 4,	17.4	364
324	Reversible electrical switching of spin polarization in multiferroic tunnel junctions. <i>Nature Materials</i> , 2012 , 11, 289-93	27	363
323	Tip-enhanced photovoltaic effects in bismuth ferrite. <i>Nature Communications</i> , 2011 , 2,	17.4	325
322	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
321	Impact of misfit dislocations on the polarization instability of epitaxial nanostructured ferroelectric perovskites. <i>Nature Materials</i> , 2004 , 3, 87-90	27	307
320	Nanoshell tubes of ferroelectric lead zirconate titanate and barium titanate. <i>Applied Physics Letters</i> , 2003 , 83, 440-442	3.4	259
319	Individually addressable epitaxial ferroelectric nanocapacitor arrays with near Tb inch ⁻² density. <i>Nature Nanotechnology</i> , 2008 , 3, 402-7	28.7	254
318	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , 2008 , 7, 209-15	27	235
317	Metal-ferroelectric-metal heterostructures with Schottky contacts. I. Influence of the ferroelectric properties. <i>Journal of Applied Physics</i> , 2005 , 98, 124103	2.5	234
316	Intrinsic Ferroelectric Properties of Strained Tetragonal PbZr _{0.2} Ti _{0.8} O ₃ Obtained on Layer-by-Layer Grown, Defect-Free Single-Crystalline Films. <i>Advanced Materials</i> , 2006 , 18, 1657-1661	24	231
315	Photovoltaics with Ferroelectrics: Current Status and Beyond. <i>Advanced Materials</i> , 2016 , 28, 5153-68	24	226
314	Structural and optical characteristics of bismuth oxide thin films. <i>Surface Science</i> , 2002 , 507-510, 480-485.	5.8	212
313	Ferroelectric polarization-leakage current relation in high quality epitaxial Pb(Zr,Ti)O ₃ films. <i>Physical Review B</i> , 2007 , 75,	3.3	195
312	Template-assisted large-scale ordered arrays of ZnO pillars for optical and piezoelectric applications. <i>Small</i> , 2006 , 2, 561-8	11	194
311	A photoferroelectric material is more than the sum of its parts. <i>Nature Materials</i> , 2012 , 11, 260	27	184

310	Vortex polarization states in nanoscale ferroelectric arrays. <i>Nano Letters</i> , 2009 , 9, 1127-31	11.5	175
309	Polarization imprint and size effects in mesoscopic ferroelectric structures. <i>Applied Physics Letters</i> , 2001 , 79, 242-244	3.4	156
308	Flexo-photovoltaic effect. <i>Science</i> , 2018 , 360, 904-907	33.3	147
307	Piezoresponse force microscopy and nanoferroic phenomena. <i>Nature Communications</i> , 2019 , 10, 1661	17.4	146
306	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
305	Patterning and switching of nanosize ferroelectric memory cells. <i>Applied Physics Letters</i> , 1999 , 75, 1793-1795	3.4	141
304	Multiferroic iron oxide thin films at room temperature. <i>Advanced Materials</i> , 2014 , 26, 4645-52	24	134
303	Ferroelectric epitaxial nanocrystals obtained by a self-patterning method. <i>Applied Physics Letters</i> , 2003 , 83, 2211-2213	3.4	134
302	Ferroelectric Switching in Multiferroic Magnetite (Fe ₃ O ₄) Thin Films. <i>Advanced Materials</i> , 2009 , 21, 4452-4455	24	132
301	Vortex ferroelectric domains. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 342201	1.8	131
300	Electroresistance effects in ferroelectric tunnel barriers. <i>Physical Review B</i> , 2010 , 82,	3.3	130
299	Multilevel charge storage in silicon nanocrystal multilayers. <i>Applied Physics Letters</i> , 2005 , 87, 202110	3.4	128
298	Metal-ferroelectric-metal structures with Schottky contacts. II. Analysis of the experimental current-voltage and capacitance-voltage characteristics of Pb(Zr,Ti)O ₃ thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 124104	2.5	127
297	Short-circuit photocurrent in epitaxial lead zirconate-titanate thin films. <i>Journal of Applied Physics</i> , 2007 , 101, 064109	2.5	123
296	Quantitative ferroelectric characterization of single submicron grains in Bi-layered perovskite thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 261-267	2.6	122
295	Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion. <i>Physics Reports</i> , 2016 , 653, 1-40	27.7	112
294	Contact resonances in voltage-modulated force microscopy. <i>Applied Physics Letters</i> , 2003 , 83, 338-340	3.4	103
293	Switching properties of self-assembled ferroelectric memory cells. <i>Applied Physics Letters</i> , 1999 , 75, 1158-1160	3.4	103

292	Functional Perovskites [From Epitaxial Films to Nanostructured Arrays. <i>Advanced Functional Materials</i> , 2008 , 18, 3892-3906	15.6	102
291	Coupled ultrafast lattice and polarization dynamics in ferroelectric nanolayers. <i>Physical Review Letters</i> , 2007 , 98, 257601	7.4	101
290	Self-patterning nano-electrodes on ferroelectric thin films for gigabit memory applications. <i>Applied Physics Letters</i> , 1998 , 73, 1592-1594	3.4	96
289	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
288	Settling the "dead layer" debate in nanoscale capacitors. <i>Advanced Materials</i> , 2009 , 21, 4911-4914	24	87
287	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
286	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
285	Nanoscale properties of thin twin walls and surface layers in piezoelectric WO ₃ . <i>Applied Physics Letters</i> , 2010 , 96, 032904	3.4	84
284	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
283	Ferroelectric-like hysteresis loop in nonferroelectric systems. <i>Applied Physics Letters</i> , 2005 , 87, 112903	3.4	82
282	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
281	Light-Induced Reversible Control of Ferroelectric Polarization in BiFeO ₃ . <i>Advanced Materials</i> , 2018 , 30, e1704908	24	74
280	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
279	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
278	Electrostatic-free piezoresponse force microscopy. <i>Scientific Reports</i> , 2017 , 7, 41657	4.9	72
277	Skin layer of BiFeO ₃ single crystals. <i>Physical Review Letters</i> , 2011 , 106, 236101	7.4	72
276	Nanostructured ferroelectrics: fabrication and structure-property relations. <i>Advanced Materials</i> , 2011 , 23, 4599-613	24	70
275	Mesoscopic ferroelectric cell arrays prepared by imprint lithography. <i>Applied Physics Letters</i> , 2003 , 83, 1827-1829	3.4	69

274	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
273	Ordered Ferroelectric Lead Titanate Nanocellular Structure by Conversion of Anodic TiO ₂ Nanotubes. <i>Advanced Materials</i> , 2009 , 21, 3121-3125	24	68
272	Metal Membranes with Hierarchically Organized Nanotube Arrays. <i>Chemistry of Materials</i> , 2005 , 17, 3325-3327	3.3	68
271	Ultrahigh density array of epitaxial ferroelectric nanoislands on conducting substrates. <i>Nano Letters</i> , 2010 , 10, 2141-6	11.5	67
270	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
269	Bi ₄ Ti ₃ O ₁₂ ferroelectric thin film ultraviolet detectors. <i>Applied Physics Letters</i> , 1998 , 73, 342-344	3.4	67
268	Ferroelectric nanotubes fabricated using nanowires as positive templates. <i>Applied Physics Letters</i> , 2006 , 89, 172907	3.4	67
267	Non-Conventional Micro- and Nanopatterning Techniques for Electroceramics 2004 , 12, 69-88		66
266	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , 2011 , 5, 9104-12	16.7	65
265	Energy Harvesting Using Nanowires?. <i>Advanced Materials</i> , 2008 , 20, 4021-4026	24	64
264	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
263	Self-assembled nanoscale ferroelectrics. <i>Journal of Materials Science</i> , 2006 , 41, 1-11	4.3	62
262	Piezoresponse Scanning Force Microscopy: What Quantitative Information Can We Really Get Out of Piezoresponse Measurements on Ferroelectric Thin Films. <i>Integrated Ferroelectrics</i> , 2002 , 44, 113-124	0.8	62
261	Nucleation-induced self-assembly of multiferroic BiFeO ₃ -CoFe ₂ O ₄ nanocomposites. <i>Nano Letters</i> , 2013 , 13, 3884-9	11.5	60
260	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
259	Surface phase transitions in BiFeO ₃ below room temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	59
258	Si nanocrystal based memories: Effect of the nanocrystal density. <i>Journal of Applied Physics</i> , 2006 , 100, 014310	2.5	58
257	Persistent photoconductivity in strained epitaxial BiFeO ₃ thin films. <i>Nano Letters</i> , 2014 , 14, 5224-8	11.5	57

256	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
255	Orientation-dependent potential barriers in case of epitaxial PtBiFeO ₃ /SrRuO ₃ capacitors. <i>Applied Physics Letters</i> , 2009 , 94, 232902	3.4	56
254	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
253	Threading dislocations in epitaxial ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ films and their effect on polarization backswitching. <i>Philosophical Magazine</i> , 2006 , 86, 4477-4486	1.6	56
252	Investigation on switching kinetics in epitaxial Pb(Zr _{0.2} Ti _{0.8})O ₃ ferroelectric thin films: Role of the 90° domain walls. <i>Applied Physics Letters</i> , 2007 , 91, 262903	3.4	55
251	Non-Kolmogorov-Avrami-Ishibashi switching dynamics in nanoscale ferroelectric capacitors. <i>Nano Letters</i> , 2010 , 10, 1266-70	11.5	52
250	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
249	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
248	100-nm lateral size ferroelectric memory cells fabricated by electron-beam direct writing. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 247-251	2.6	51
247	Spatially Resolved Mapping of Polarization Switching Behavior in Nanoscale Ferroelectrics. <i>Advanced Materials</i> , 2008 , 20, 109-114	24	50
246	Self-patterning of arrays of ferroelectric capacitors: description by theory of substrate mediated strain interactions. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L667-L671	1.8	48
245	Measurement of interface trap states in metal/ferroelectric/silicon heterostructures. <i>Applied Physics Letters</i> , 1998 , 72, 2283-2285	3.4	48
244	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
243	Coexistence of ferroelectricity and antiferroelectricity in epitaxial PbZrO ₃ films with different orientations. <i>Journal of Applied Physics</i> , 2008 , 103, 024101	2.5	47
242	Piezoelectric and pyroelectric effects induced by interface polar symmetry. <i>Nature</i> , 2020 , 584, 377-381	50.4	47
241	The nature of magnetoelectric coupling in Pb(Zr,Ti)O ₃ -Pb(Fe,Ta)O ₃ . <i>Advanced Materials</i> , 2015 , 27, 6068-73	27	46
240	Crossover of conduction mechanism in Sr ₂ IrO ₄ epitaxial thin films. <i>Applied Physics Letters</i> , 2014 , 105, 082407	3.4	46
239	Enhancement of Local Photovoltaic Current at Ferroelectric Domain Walls in BiFeO ₃ . <i>Scientific Reports</i> , 2017 , 7, 43070	4.9	45

238	Artefacts in geometric phase analysis of compound materials. <i>Ultramicroscopy</i> , 2015 , 157, 91-7	3.1	45
237	Ultrafast magnetostriction and phonon-mediated stress in a photoexcited ferromagnet. <i>Physical Review B</i> , 2008 , 78,	3.3	45
236	Extrinsic contributions to the apparent thickness dependence of the dielectric constant in epitaxial Pb(Zr,Ti)O ₃ thin films. <i>Physical Review B</i> , 2007 , 75,	3.3	45
235	Optical properties of epitaxial BiFeO ₃ thin films grown on LaAlO ₃ . <i>Applied Physics Letters</i> , 2015 , 106, 012908	3.4	44
234	Polarization curling and flux closures in multiferroic tunnel junctions. <i>Nature Communications</i> , 2016 , 7, 13484	17.4	44
233	Spintronic functionality of BiFeO ₃ domain walls. <i>Advanced Materials</i> , 2014 , 26, 7078-82	24	44
232	Thickness-driven antiferroelectric-to-ferroelectric phase transition of thin PbZrO ₃ layers in epitaxial PbZrO ₃ /Pb(Zr _{0.8} Ti _{0.2})O ₃ multilayers. <i>Applied Physics Letters</i> , 2007 , 91, 122915	3.4	44
231	Increased ferroelastic domain mobility in ferroelectric thin films and its use in nano-patterned capacitors. <i>Nanotechnology</i> , 2006 , 17, 3154-3159	3.4	44
230	Initial growth stages of epitaxial BaTiO ₃ films on vicinal SrTiO ₃ (001) substrate surfaces. <i>Journal of Applied Physics</i> , 2002 , 91, 10157	2.5	44
229	BaBi ₄ Ti ₄ O ₁₅ ferroelectric thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 1999 , 74, 603-605	3.4	44
228	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
227	Epitaxial strain stabilization of a ferroelectric phase in PbZrO ₃ thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	43
226	High epitaxial quality Y ₂ O ₃ high- ϵ dielectric on vicinal Si(001) surfaces. <i>Applied Physics Letters</i> , 2002 , 81, 3549-3551	3.4	43
225	Bulk photovoltaic effect in monodomain BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2017 , 110, 183902	3.4	42
224	Atomically smooth p-doped silicon nanowires catalyzed by aluminum at low temperature. <i>ACS Nano</i> , 2011 , 5, 1313-20	16.7	41
223	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
222	Microstructure and electrical properties of (120)O-oriented and of (001)O-oriented epitaxial antiferroelectric PbZrO ₃ thin films on (100) SrTiO ₃ substrates covered with different oxide bottom electrodes. <i>Journal of Applied Physics</i> , 2007 , 102, 044111	2.5	40
221	Polarization reversal and capacitance-voltage characteristic of epitaxial Pb(Zr,Ti)O ₃ layers. <i>Applied Physics Letters</i> , 2005 , 86, 192902	3.4	40

220	Patterning and switching of nano-size ferroelectric memory cells. <i>Scripta Materialia</i> , 2001 , 44, 1175-1179	5.6	40
219	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
218	Ferroelectric Lead Zirconate Titanate and Barium Titanate Nanotubes. <i>Integrated Ferroelectrics</i> , 2003 , 59, 1513-1520	0.8	39
217	Elastic coupling between 90° twin walls and interfacial dislocations in epitaxial ferroelectric perovskites: A quantitative high-resolution transmission electron microscopy study. <i>Physical Review B</i> , 2005 , 72,	3.3	39
216	Nanosopic switching behavior of epitaxial SrBi ₂ Ta ₂ O ₉ films deposited by pulsed laser deposition. <i>Applied Physics Letters</i> , 2000 , 76, 106-108	3.4	39
215	Direct observation of polar tweed in LaAlO ₃ . <i>Scientific Reports</i> , 2016 , 6, 27193	4.9	38
214	Finite element method calculations of ZnO nanowires for nanogenerators. <i>Applied Physics Letters</i> , 2008 , 92, 122904	3.4	38
213	GaAs on Si heterostructures obtained by He and/or H implantation and direct wafer bonding. <i>Journal of Applied Physics</i> , 2003 , 94, 7820	2.5	38
212	High-resolution electron energy-loss spectroscopy of BaTiO ₃ /SrTiO ₃ multilayers. <i>Physical Review B</i> , 2005 , 71,	3.3	37
211	Interfacial strain effects in epitaxial multiferroic heterostructures of PbZr _x Ti _{1-x} O ₃ /Ba _{0.7} Sr _{0.3} MnO ₃ grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2008 , 92, 152506	3.4	36
210	Switching kinetics in epitaxial BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 084111	2.5	35
209	Structure and properties of epitaxial ferroelectric PbZr _{0.4} Ti _{0.6} O ₃ /PbZr _{0.6} Ti _{0.4} O ₃ superlattices grown on SrTiO ₃ (001) by pulsed laser deposition. <i>Applied Physics Letters</i> , 2007 , 90, 072909	3.4	35
208	Effects on surface morphology of epitaxial Y ₂ O ₃ layers on Si (001) after postgrowth annealing. <i>Thin Solid Films</i> , 2004 , 468, 303-309	2.2	35
207	Growth, structure, and properties of all-epitaxial ferroelectric (Bi,La) ₄ Ti ₃ O ₁₂ /Pb(Zr _{0.4} Ti _{0.6})O ₃ /(Bi,La) ₄ Ti ₃ O ₁₂ trilayered thin films on SrRuO ₃ -covered SrTiO ₃ (011) substrates. <i>Applied Physics Letters</i> , 2005 , 86, 082906	3.4	35
206	Four-state ferroelectric spin-valve. <i>Scientific Reports</i> , 2015 , 5, 9749	4.9	34
205	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
204	Flexible Memristors Based on Single-Crystalline Ferroelectric Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23313-23319	9.5	33
203	Magnetite (Fe ₃ O ₄): a new variant of relaxor multiferroic?. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 086007	1.8	33

202	Polarization fatigue and frequency-dependent recovery in Pb(Zr,Ti)O ₃ epitaxial thin films with SrRuO ₃ electrodes. <i>Applied Physics Letters</i> , 2006 , 88, 102908	3-4	33
201	Space charge contribution to the apparent enhancement of polarization in ferroelectric bilayers and multilayers. <i>Applied Physics Letters</i> , 2007 , 91, 022911	3-4	33
200	Electronic Origin and Tailoring of Photovoltaic Effect in BiFeO ₃ Single Crystals. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500139	6.4	32
199	Low-temperature layer splitting of (100) GaAs by He+H coimplantation and direct wafer bonding. <i>Applied Physics Letters</i> , 2003 , 82, 2413-2415	3-4	31
198	Well-ordered large-area arrays of epitaxial ferroelectric (Bi,La)4Ti3O12 nanostructures fabricated by gold nanotube-membrane lithography. <i>Applied Physics Letters</i> , 2005 , 86, 152906	3-4	31
197	Piezoelectric response hysteresis in the presence of ferroelastic 90° domain walls. <i>Applied Physics Letters</i> , 2007 , 90, 012908	3-4	30
196	Higher-order electromechanical response of thin films by contact resonance piezoresponse force microscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 2309-22	3-2	30
195	Thickness effect in Pb(Zr _{0.2} Ti _{0.8})O ₃ ferroelectric thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2006 , 252, 4549-4552	6.7	30
194	Ferroelectric-semiconductor heterostructures obtained by direct wafer bonding. <i>Applied Physics Letters</i> , 1997 , 70, 3416-3418	3-4	29
193	Piezoresponse scanning force microscopy: What quantitative information can we really get out of piezoresponse measurements on ferroelectric thin films. <i>Integrated Ferroelectrics</i> , 2001 , 38, 23-29	0.8	29
192	Low temperature GaAs/Si direct wafer bonding. <i>Electronics Letters</i> , 2000 , 36, 677	1.1	29
191	Capacitance tuning in antiferroelectric/ferroelectric PbZrO ₃ /Pb(Zr _{0.8} Ti _{0.2})O ₃ epitaxial multilayers. <i>New Journal of Physics</i> , 2008 , 10, 013003	2.9	26
190	Oxidation behavior of AlN substrate at low temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2002 , 13, 131-137	2.1	24
189	Tailoring the interfacial magnetic anisotropy in multiferroic field-effect devices. <i>Physical Review B</i> , 2014 , 90,	3.3	23
188	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
187	Optical properties of epitaxial BiFeO ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 1217-1220	2.6	23
186	Nanodomains and nanometer-scale disorder in multiferroic bismuth ferrite single crystals. <i>Acta Materialia</i> , 2015 , 82, 356-368	8.4	21
185	Nanodomain faceting in ferroelectrics. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 425222	1.8	21

184	Strain propagation in nanolayered perovskites probed by ultrafast x-ray diffraction. <i>Physical Review B</i> , 2006 , 73,	3.3	21
183	Wafer-scale integration of GaAs optoelectronic devices with standard Si integrated circuits using a low-temperature bonding procedure. <i>Applied Physics Letters</i> , 2002 , 81, 5099-5101	3.4	21
182	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
181	Nanocrystalline Ferroelectric BiFeO ₃ Thin Films by Low-Temperature Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 6322-6328	9.6	20
180	Origin of tunnel electroresistance effect in PbTiO ₃ -based multiferroic tunnel junctions. <i>Physical Review B</i> , 2015 , 92,	3.3	20
179	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
178	Ultrafast manipulation of hard x-rays by efficient Bragg switches. <i>Applied Physics Letters</i> , 2010 , 96, 1619064	9.4	20
177	Emerging Opportunities for 2D Semiconductor/Ferroelectric Transistor-Structure Devices. <i>Advanced Materials</i> , 2021 , 33, e2005620	24	20
176	Strain-gradient mediated local conduction in strained bismuth ferrite films. <i>Nature Communications</i> , 2019 , 10, 2791	17.4	19
175	Topological domain states and magnetoelectric properties in multiferroic nanostructures. <i>National Science Review</i> , 2019 , 6, 684-702	10.8	19
174	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
173	Epitaxial and large area PLD ferroelectric thin film heterostructures on silicon substrates. <i>Integrated Ferroelectrics</i> , 1998 , 21, 485-498	0.8	19
172	Accurate time delay determination for femtosecond X-ray diffraction experiments. <i>Applied Physics B: Lasers and Optics</i> , 2007 , 88, 1-4	1.9	19
171	Single-Crystalline Ferroelectric Thin Films by Ion Implantation and Direct Wafer Bonding. <i>Integrated Ferroelectrics</i> , 2003 , 55, 983-990	0.8	19
170	Individual switching of film-based nanoscale epitaxial ferroelectric capacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 042005	2.5	18
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