Anna Morozovska

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#	Paper	IF	Citations
298	Nanoscale mapping of ion diffusion in a lithium-ion battery cathode. <i>Nature Nanotechnology</i> , 2010 , 5, 749-54	28.7	460
297	Local polarization dynamics in ferroelectric materials. <i>Reports on Progress in Physics</i> , 2010 , 73, 056502	14.4	341
296	Ferroelectrics. Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO[Films. <i>Science</i> , 2015 , 348, 547-51	33.3	308
295	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO3. <i>Nature Physics</i> , 2012 , 8, 81-88	16.2	271
294	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , 2008 , 7, 209-15	27	235
293	Measuring oxygen reduction/evolution reactions on the nanoscale. <i>Nature Chemistry</i> , 2011 , 3, 707-13	17.6	220
292	Direct observation of ferroelectric field effect and vacancy-controlled screening at the BiFeO3/LaxSr1-xMnO3 interface. <i>Nature Materials</i> , 2014 , 13, 1019-25	27	195
291	Spontaneous flexoelectric/flexomagnetic effect in nanoferroics. <i>Physical Review B</i> , 2009 , 79,	3.3	191
2 90	CuInPBIRoom Temperature Layered Ferroelectric. <i>Nano Letters</i> , 2015 , 15, 3808-14	11.5	184
289	Static conductivity of charged domain walls in uniaxial ferroelectric semiconductors. <i>Physical Review B</i> , 2011 , 83,	3.3	181
288	Nanoscale Electromechanics of Ferroelectric and Biological Systems: A New Dimension in Scanning Probe Microscopy. <i>Annual Review of Materials Research</i> , 2007 , 37, 189-238	12.8	179
287	Atomic-scale evolution of modulated phases at the ferroelectric-antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. <i>Nature Communications</i> , 2012 , 3, 775	17.4	135
286	Mapping octahedral tilts and polarization across a domain wall in BiFeO3 from Z-contrast scanning transmission electron microscopy image atomic column shape analysis. <i>ACS Nano</i> , 2010 , 4, 6071-9	16.7	135
285	Tunable metallic conductance in ferroelectric nanodomains. Nano Letters, 2012, 12, 209-13	11.5	131
284	Local probing of ionic diffusion by electrochemical strain microscopy: Spatial resolution and signal formation mechanisms. <i>Journal of Applied Physics</i> , 2010 , 108, 053712	2.5	131
283	Ferroelectricity enhancement in confined nanorods: Direct variational method. <i>Physical Review B</i> , 2006 , 73,	3.3	130
282	Intermittency, quasiperiodicity and chaos in probe-induced ferroelectric domain switching. <i>Nature Physics</i> , 2014 , 10, 59-66	16.2	116

281	Oxygen-vacancy-induced ferromagnetism in undoped SnO2 thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	112
280	Phase transitions induced by confinement of ferroic nanoparticles. <i>Physical Review B</i> , 2007 , 76,	3.3	112
279	Thermotropic phase boundaries in classic ferroelectrics. <i>Nature Communications</i> , 2014 , 5, 3172	17.4	105
278	The internal electric field originating from the mismatch effect and its influence on ferroelectric thin film properties. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 3517-3531	1.8	104
277	Domain wall geometry controls conduction in ferroelectrics. <i>Nano Letters</i> , 2012 , 12, 5524-31	11.5	103
276	Surface Domain Structures and Mesoscopic Phase Transition in Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2011 , 21, 1977-1987	15.6	102
275	Thermodynamics of electromechanically coupled mixed ionic-electronic conductors: Deformation potential, Vegard strains, and flexoelectric effect. <i>Physical Review B</i> , 2011 , 83,	3.3	102
274	Domain Wall Conduction and Polarization-Mediated Transport in Ferroelectrics. <i>Advanced Functional Materials</i> , 2013 , 23, 2592-2616	15.6	96
273	Interfacial polarization and pyroelectricity in antiferrodistortive structures induced by a flexoelectric effect and rotostriction. <i>Physical Review B</i> , 2012 , 85,	3.3	94
272	Interplay of octahedral tilts and polar order in BiFeO3 films. Advanced Materials, 2013, 25, 2497-504	24	94
271	Surface-screening mechanisms in ferroelectric thin films and their effect on polarization dynamics and domain structures. <i>Reports on Progress in Physics</i> , 2018 , 81, 036502	14.4	93
270	Resolution-function theory in piezoresponse force microscopy: Wall imaging, spectroscopy, and lateral resolution. <i>Physical Review B</i> , 2007 , 75,	3.3	89
269	Domain wall conduction in multiaxial ferroelectrics. <i>Physical Review B</i> , 2012 , 85,	3.3	85
268	Ferroelectric control of the conduction at the LaAlO/SrTiOIheterointerface. <i>Advanced Materials</i> , 2013 , 25, 3357-64	24	78
267	Flexoelectricity and ferroelectric domain wall structures: Phase-field modeling and DFT calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	77
266	Probing the role of single defects on the thermodynamics of electric-field induced phase transitions. <i>Physical Review Letters</i> , 2008 , 100, 155703	7.4	76
265	Mixed electrochemicalEerroelectric states in nanoscale ferroelectrics. <i>Nature Physics</i> , 2017 , 13, 812-818	16.2	72
264	Ionically-mediated electromechanical hysteresis in transition metal oxides. <i>ACS Nano</i> , 2012 , 6, 7026-33	16.7	72

263	Atomically resolved mapping of polarization and electric fields across ferroelectric/oxide interfaces by Z-contrast imaging. <i>Advanced Materials</i> , 2011 , 23, 2474-9	24	72
262	Direct evidence of mesoscopic dynamic heterogeneities at the surfaces of ergodic ferroelectric relaxors. <i>Physical Review B</i> , 2010 , 81,	3.3	71
261	Electromechanical detection in scanning probe microscopy: Tip models and materials contrast. Journal of Applied Physics, 2007 , 102, 014109	2.5	71
260	Piezoresponse force spectroscopy of ferroelectric-semiconductor materials. <i>Journal of Applied Physics</i> , 2007 , 102, 114108	2.5	69
259	Intrinsic single-domain switching in ferroelectric materials on a nearly ideal surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20204-9	11.5	67
258	Materials contrast in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2006 , 88, 232904	3.4	66
257	Nanoscale electromechanics of paraelectric materials with mobile charges: Size effects and nonlinearity of electromechanical response of SrTiO3 films. <i>Physical Review B</i> , 2011 , 84,	3.3	64
256	Giant magnetoelectric effect induced by intrinsic surface stress in ferroic nanorods. <i>Physical Review B</i> , 2008 , 77,	3.3	64
255	Conductivity of twin-domain-wall/surface junctions in ferroelastics: Interplay of deformation potential, octahedral rotations, improper ferroelectricity, and flexoelectric coupling. <i>Physical Review B</i> , 2012 , 86,	3.3	63
254	Electromechanical probing of ionic currents in energy storage materials. <i>Applied Physics Letters</i> , 2010 , 96, 222906	3.4	63
253	General approach for the description of size effects in ferroelectric nanosystems. <i>Journal of Materials Science</i> , 2009 , 44, 5149-5160	4.3	60
252	Pyroelectric response of ferroelectric nanowires: Size effect and electric energy harvesting. <i>Journal of Applied Physics</i> , 2010 , 108, 042009	2.5	60
251	Direct mapping of ionic transport in a Si anode on the nanoscale: time domain electrochemical strain spectroscopy study. <i>ACS Nano</i> , 2011 , 5, 9682-95	16.7	59
250	Humidity effects on tip-induced polarization switching in lithium niobate. <i>Applied Physics Letters</i> , 2014 , 104, 092908	3.4	58
249	Correlated polarization switching in the proximity of a 180\(\text{0}\)domain wall. <i>Physical Review B</i> , 2010 , 82,	3.3	58
248	Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. <i>Physical Review B</i> , 2009 , 80,	3.3	56
247	Finite size and intrinsic field effect on the polar-active properties of ferroelectric-semiconductor heterostructures. <i>Physical Review B</i> , 2010 , 81,	3.3	55
246	Ferroelectric thin films phase diagrams with self-polarized phase and electret state. <i>Journal of Applied Physics</i> , 2006 , 99, 114102	2.5	55

245	Anisotropic conductivity of uncharged domain walls in BiFeO3. Physical Review B, 2012, 86,	3.3	53
244	Epitaxial Bi5Ti3FeO15-CoFe2O4 pillar-matrix multiferroic nanostructures. <i>ACS Nano</i> , 2013 , 7, 11079-86	16.7	52
243	Domain nucleation and hysteresis loop shape in piezoresponse force spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 192901	3.4	52
242	Symmetry breaking and electrical frustration during tip-induced polarization switching in the nonpolar cut of lithium niobate single crystals. <i>ACS Nano</i> , 2015 , 9, 769-77	16.7	50
241	Interface dipole between two metallic oxides caused by localized oxygen vacancies. <i>Physical Review B</i> , 2012 , 86,	3.3	50
240	Surface effect on domain wall width in ferroelectrics. <i>Journal of Applied Physics</i> , 2009 , 106, 084102	2.5	50
239	Bichiral structure of ferroelectric domain walls driven by flexoelectricity. <i>Physical Review B</i> , 2012 , 86,	3.3	49
238	Multiferroics: Focusing light on flexoelectricity. <i>Nature Nanotechnology</i> , 2015 , 10, 916-7	28.7	48
237	Mechanical control of electroresistive switching. <i>Nano Letters</i> , 2013 , 13, 4068-74	11.5	48
236	Spatially resolved mapping of ferroelectric switching behavior in self-assembled multiferroic nanostructures: strain, size, and interface effects. <i>Nanotechnology</i> , 2007 , 18, 405701	3.4	48
235	Thermodynamic potential and phase diagram for multiferroic bismuth ferrite (BiFeO 3). <i>Npj Computational Materials</i> , 2017 , 3,	10.9	46
234	Intrinsic nucleation mechanism and disorder effects in polarization switching on ferroelectric surfaces. <i>Physical Review Letters</i> , 2009 , 102, 017601	7.4	46
233	Superparaelectric phase in the ensemble of noninteracting ferroelectric nanoparticles. <i>Physical Review B</i> , 2008 , 78,	3.3	46
232	The piezoresponse force microscopy of surface layers and thin films: Effective response and resolution function. <i>Journal of Applied Physics</i> , 2007 , 102, 074105	2.5	46
231	Room-temperature paramagnetoelectric effect in magnetoelectric multiferroics Pb(Fe1/2Nb1/2)O3 and its solid solution with PbTiO3. <i>Journal of Materials Science</i> , 2016 , 51, 5330-5342	4.3	45
230	The influence of 180º ferroelectric domain wall width on the threshold field for wall motion. Journal of Applied Physics, 2008 , 104, 084107	2.5	44
229	Structural phase transitions and electronic phenomena at 180-degree domain walls in rhombohedral BaTiO3. <i>Physical Review B</i> , 2013 , 87,	3.3	43
228	Real space mapping of polarization dynamics and hysteresis loop formation in relaxor-ferroelectric PbMg1/3Nb2/3O3PbTiO3 solid solutions. <i>Journal of Applied Physics</i> , 2010 , 108, 042006	2.5	43

227	Size effects and depolarization field influence on the phase diagrams of cylindrical ferroelectric nanoparticles. <i>Physica B: Condensed Matter</i> , 2007 , 387, 358-366	2.8	43
226	Compositional disorder, polar nanoregions and dipole dynamics in Pb(Mg1/3Nb2/3)O3-based relaxor ferroelectrics. <i>Zeitschrift F\(\text{B}\) Kristallographie</i> , 2011 , 226, 99-107		42
225	Ionic field effect and memristive phenomena in single-point ferroelectric domain switching. <i>Nature Communications</i> , 2014 , 5, 4545	17.4	41
224	Ferroionic states in ferroelectric thin films. <i>Physical Review B</i> , 2017 , 95,	3.3	41
223	Tuning the polar states of ferroelectric films via surface charges and flexoelectricity. <i>Acta Materialia</i> , 2017 , 137, 85-92	8.4	40
222	Linear magnetoelectric coupling and ferroelectricity induced by the flexomagnetic effect in ferroics. <i>Physical Review B</i> , 2011 , 84,	3.3	40
221	Probing the temperature dependence of the mechanical properties of polymers at the nanoscale with band excitation thermal scanning probe microscopy. <i>Nanotechnology</i> , 2009 , 20, 395709	3.4	40
220	Nanoscale polarization profile across a 180º ferroelectric domain wall extracted by quantitative piezoelectric force microscopy. <i>Journal of Applied Physics</i> , 2008 , 104, 074110	2.5	39
219	Screening and retardation effects on 180º domain wall motion in ferroelectrics: Wall velocity and nonlinear dynamics due to polarization-screening charge interactions. <i>Physical Review B</i> , 2008 , 78,	3.3	39
218	Extrinsic size effect in piezoresponse force microscopy of thin films. <i>Physical Review B</i> , 2007 , 76,	3.3	39
217	Size-effect in layered ferrielectric CuInP2S6. Applied Physics Letters, 2016, 109, 172901	3.4	39
216	Interaction of a 180º ferroelectric domain wall with a biased scanning probe microscopy tip: Effective wall geometry and thermodynamics in Ginzburg-Landau-Devonshire theory. <i>Physical Review B</i> , 2008 , 78,	3.3	38
215	Electrostrictive and electrostatic responses in contact mode voltage modulated scanning probe microscopies. <i>Applied Physics Letters</i> , 2014 , 104, 232901	3.4	37
214	Structure and energetics of 180 [®] domain walls in PbTiO3 by density functional theory. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 175902	1.8	37
213	Surface polar states and pyroelectricity in ferroelastics induced by flexo-roto field. <i>Applied Physics Letters</i> , 2012 , 100, 142902	3.4	36
212	Possible electrochemical origin of ferroelectricity in HfO2 thin films. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 153628	5.7	36
211	Pressure-induced switching in ferroelectrics: Phase-field modeling, electrochemistry, flexoelectric effect, and bulk vacancy dynamics. <i>Physical Review B</i> , 2017 , 96,	3.3	34
210	Spatial distribution of relaxation behavior on the surface of a ferroelectric relaxor in the ergodic phase. <i>Applied Physics Letters</i> , 2009 , 95, 142902	3.4	33

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209	Universal emergence of spatially modulated structures induced by flexoantiferrodistortive coupling in multiferroics. <i>Physical Review B</i> , 2013 , 88,	3.3	32	
208	Exploring mesoscopic physics of vacancy-ordered systems through atomic scale observations of topological defects. <i>Physical Review Letters</i> , 2012 , 109, 065702	7.4	32	
207	Surface-induced piezomagnetic, piezoelectric, and linear magnetoelectric effects in nanosystems. <i>Physical Review B</i> , 2010 , 82,	3.3	32	
206	Determination of ferroelectric contributions to electromechanical response by frequency dependent piezoresponse force microscopy. <i>Scientific Reports</i> , 2016 , 6, 30579	4.9	32	
205	Defect-driven flexochemical coupling in thin ferroelectric films. <i>Physical Review B</i> , 2018 , 97,	3.3	31	
204	Local polarization switching in the presence of surface-charged defects: Microscopic mechanisms and piezoresponse force spectroscopy observations. <i>Physical Review B</i> , 2008 , 78,	3.3	31	
203	Frequency dependent dynamical electromechanical response of mixed ionic-electronic conductors. <i>Journal of Applied Physics</i> , 2012 , 111, 014107	2.5	30	
202	Quantitative determination of tip parameters in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2007 , 90, 212905	3.4	29	
201	Flexocoupling impact on size effects of piezoresponse and conductance in mixed-type ferroelectric semiconductors under applied pressure. <i>Physical Review B</i> , 2016 , 94,	3.3	28	
200	Misfit strain driven cation inter-diffusion across an epitaxial multiferroic thin film interface. <i>Journal of Applied Physics</i> , 2014 , 115, 054103	2.5	28	
199	Novel room temperature multiferroics on the base of single-phase nanostructured perovskites. <i>Journal of Applied Physics</i> , 2014 , 116, 054101	2.5	28	
198	Effect of Vegard strains on the extrinsic size effects in ferroelectric nanoparticles. <i>Physical Review B</i> , 2014 , 90,	3.3	27	
197	Surface and finite size effects impact on the phase diagrams, polar, and dielectric properties of (Sr,Bi)Ta2O9 ferroelectric nanoparticles. <i>Journal of Applied Physics</i> , 2016 , 119, 204104	2.5	26	
196	Influence of elastic strain gradient on the upper limit of flexocoupling strength, spatially modulated phases, and soft phonon dispersion in ferroics. <i>Physical Review B</i> , 2016 , 94,	3.3	25	
195	Defect thermodynamics and kinetics in thin strained ferroelectric films: The interplay of possible mechanisms. <i>Physical Review B</i> , 2014 , 89,	3.3	25	
194	Defect driven ferroelectricity and magnetism in nanocrystalline KTaO3. <i>Physica B: Condensed Matter</i> , 2012 , 407, 614-623	2.8	25	
193	Strain effect on phase transitions of BaTiO3 nanowires. <i>Acta Materialia</i> , 2011 , 59, 7189-7198	8.4	25	
192	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019 , 3,	3.2	25	

191	Finite size effects in ferroelectric-semiconductor thin films under open-circuit electric boundary conditions. <i>Journal of Applied Physics</i> , 2015 , 117, 034102	2.5	24
190	Labyrinthine domains in ferroelectric nanoparticles: Manifestation of a gradient-induced morphological transition. <i>Physical Review B</i> , 2018 , 98,	3.3	24
189	New multiferroics based on EuxSr1⊠TiO3 nanotubes and nanowires. <i>Journal of Applied Physics</i> , 2013 , 113, 024107	2.5	24
188	Spatially resolved mapping of oxygen reduction/evolution reaction on solid-oxide fuel cell cathodes with sub-10 nm resolution. <i>ACS Nano</i> , 2013 , 7, 3808-14	16.7	24
187	Nonlinear space charge dynamics in mixed ionic-electronic conductors: Resistive switching and ferroelectric-like hysteresis of electromechanical response. <i>Journal of Applied Physics</i> , 2014 , 116, 0668	08 ^{2.5}	24
186	Three-dimensional vector electrochemical strain microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 052	020 5	24
185	Ferroelectricity induced by oxygen vacancies in relaxors with perovskite structure. <i>Physical Review B</i> , 2018 , 98,	3.3	24
184	Flexocoupling impact on the generalized susceptibility and soft phonon modes in the ordered phase of ferroics. <i>Physical Review B</i> , 2015 , 92,	3.3	23
183	Electroelastic fields in artificially created vortex cores in epitaxial BiFeO3 thin films. <i>Applied Physics Letters</i> , 2015 , 107, 052903	3.4	23
182	Probing Local and Global Ferroelectric Phase Stability and Polarization Switching in Ordered Macroporous PZT. <i>Advanced Functional Materials</i> , 2011 , 21, 941-947	15.6	23
181	Origin of piezoelectric response under a biased scanning probe microscopy tip across a 180? ferroelectric domain wall. <i>Physical Review B</i> , 2012 , 86,	3.3	23
180	Ferroelectricity enhancement in ferroelectric nanotubes. <i>Phase Transitions</i> , 2007 , 80, 71-77	1.3	22
179	Electric-field induced ferromagnetic phase in paraelectric antiferromagnets. <i>Physical Review B</i> , 2014 , 89,	3.3	21
178	Self-consistent modeling of electrochemical strain microscopy of solid electrolytes. <i>Nanotechnology</i> , 2014 , 25, 445701	3.4	21
177	Ferroelectricity and ferromagnetism in EuTiO3 nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	21
176	Phase diagram and domain splitting in thin ferroelectric films with incommensurate phase. <i>Physical Review B</i> , 2010 , 81,	3.3	21
175	Anion vacancy-driven magnetism in incipient ferroelectric SrTiO3 and KTaO3 nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 109, 094105	2.5	21
174	Electrochemical strain microscopy with blocking electrodes: The role of electromigration and diffusion. <i>Journal of Applied Physics</i> , 2012 , 111, 014114	2.5	21

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173	Domain dynamics in piezoresponse force spectroscopy: Quantitative deconvolution and hysteresis loop fine structure. <i>Applied Physics Letters</i> , 2008 , 92, 182909	3.4	21	
172	Modelling of dielectric hysteresis loops in ferroelectric semiconductors with charged defects. Journal of Physics Condensed Matter, 2004 , 16, 8937-8956	1.8	21	
171	Flexo-chemo effect in nanoferroics as a source of critical size disappearance at size-induced phase transitions. <i>Journal of Applied Physics</i> , 2016 , 119, 094109	2.5	21	
170	Electrochemical strain microscopy of local electrochemical processes in solids: mechanism of imaging and spectroscopy in the diffusion limit. <i>Journal of Electroceramics</i> , 2014 , 32, 51-59	1.5	20	
169	Effect of surface ionic screening on the polarization reversal scenario in ferroelectric thin films: Crossover from ferroionic to antiferroionic states. <i>Physical Review B</i> , 2017 , 96,	3.3	20	
168	Landau-Ginzburg-Devonshire theory for electromechanical hysteresis loop formation in piezoresponse force microscopy of thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 052011	2.5	20	
167	Screening and size effects on the nanodomain tailoring in ferroelectrics semiconductors. <i>Physical Review B</i> , 2006 , 73,	3.3	20	
166	Piezoelectric domain walls in van der Waals antiferroelectric CuInPSe. <i>Nature Communications</i> , 2020 , 11, 3623	17.4	20	
165	Analytical description of domain morphology and phase diagrams of ferroelectric nanoparticles. <i>Acta Materialia</i> , 2018 , 160, 109-120	8.4	20	
164	Rotomagnetic coupling in fine-grained multiferroic BiFeO3: Theory and experiment. <i>Physical Review B</i> , 2018 , 97,	3.3	19	
163	pl Junction Dynamics Induced in a Graphene Channel by Ferroelectric-Domain Motion in the Substrate. <i>Physical Review Applied</i> , 2017 , 8,	4.3	19	
162	Interface control of a morphotropic phase boundary in epitaxial samarium modified bismuth ferrite superlattices. <i>Physical Review B</i> , 2014 , 90,	3.3	19	
161	Domain Wall Conduction in Ferroelectrics. Ferroelectrics, 2012, 438, 3-19	0.6	19	
160	Surface-induced magnetism of the solids with impurities and vacancies. <i>Physica B: Condensed Matter</i> , 2011 , 406, 1673-1688	2.8	19	
159	Effect of the intrinsic width on the piezoelectric force microscopy of a single ferroelectric domain wall. <i>Journal of Applied Physics</i> , 2008 , 103, 124110	2.5	19	
158	Intrinsic structural instabilities of domain walls driven by gradient coupling: Meandering antiferrodistortive-ferroelectric domain walls in BiFeO3. <i>Physical Review B</i> , 2019 , 99,	3.3	18	
157	Lost surface waves in nonpiezoelectric solids. <i>Physical Review B</i> , 2017 , 96,	3.3	18	
156	Ballistic conductivity of graphene channel with p-n junction at ferroelectric domain wall. <i>Applied Physics Letters</i> , 2016 , 108, 232902	3.4	18	

155	Finite-size effects of hysteretic dynamics in multilayer graphene on a ferroelectric. <i>Physical Review B</i> , 2015 , 91,	3.3	17
154	Roto-flexoelectric coupling impact on the phase diagrams and pyroelectricity of thin SrTiO3 films. <i>Journal of Applied Physics</i> , 2012 , 112, 064111	2.5	17
153	Variable temperature electrochemical strain microscopy of Sm-doped ceria. <i>Nanotechnology</i> , 2013 , 24, 145401	3.4	17
152	Analytical prediction of size-induced ferroelectricity in BaO nanowires under stress. <i>Physical Review B</i> , 2010 , 81,	3.3	17
151	Recent Advances in Electromechanical Imaging on the Nanometer Scale: Polarization Dynamics in Ferroelectrics, Biopolymers, and Liquid Imaging. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 5674-56	8 ^{1.4}	17
150	Mapping gradient-driven morphological phase transition at the conductive domain walls of strained multiferroic films. <i>Physical Review B</i> , 2019 , 100,	3.3	16
149	Ferroelectric domain triggers the charge modulation in semiconductors (invited). <i>Journal of Applied Physics</i> , 2014 , 116, 066817	2.5	16
148	Effective piezoelectric response of twin walls in ferroelectrics. <i>Journal of Applied Physics</i> , 2013 , 113, 18	72252	16
147	Low-symmetry monoclinic ferroelectric phase stabilized by oxygen octahedra rotations in strained EuxSr1\(\text{ITiO3} \) thin films. <i>Physical Review B</i> , 2013 , 87,	3.3	16
146	Ferroelectric switching by the grounded scanning probe microscopy tip. <i>Physical Review B</i> , 2015 , 91,	3.3	15
145	Polarization reversal in organic-inorganic ferroelectric composites: Modeling and experiment. <i>Applied Physics Letters</i> , 2015 , 107, 142907	3.4	15
144	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of EGlycine. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 20029-20037	9.5	14
143	Flexocoupling-induced soft acoustic modes and the spatially modulated phases in ferroelectrics. <i>Physical Review B</i> , 2017 , 96,	3.3	14
142	Piezoresponse of ferroelectric films in ferroionic states: Time and voltage dynamics. <i>Applied Physics Letters</i> , 2017 , 110, 182907	3.4	13
141	Ultrafast current imaging by Bayesian inversion. <i>Nature Communications</i> , 2018 , 9, 513	17.4	13
140	Graphene Exfoliation at a Ferroelectric Domain Wall Induced by the Piezoelectric Effect: Impact on the Conductance of the Graphene Channel. <i>Physical Review Applied</i> , 2017 , 8,	4.3	13
139	Self-consistent modelling of electrochemical strain microscopy in mixed ionic-electronic conductors: Nonlinear and dynamic regimes. <i>Journal of Applied Physics</i> , 2015 , 118, 072015	2.5	13
138	Pyroelectric origin of the carrier density modulation at graphene-ferroelectric interface. <i>Journal of Applied Physics</i> , 2013 , 114, 014101	2.5	13

137	Local Polarization Switching in Piezoresponse Force Microscopy. Ferroelectrics, 2007, 354, 198-207	0.6	13
136	Phenomenological description of coercive field decrease in ferroelectric semiconductors with charged inhomogeneities. <i>Physica B: Condensed Matter</i> , 2005 , 355, 236-243	2.8	13
135	Controlling the domain structure of ferroelectric nanoparticles using tunable shells. <i>Acta Materialia</i> , 2020 , 183, 36-50	8.4	13
134	Control of polarization reversal temperature behavior by surface screening in thin ferroelectric films. <i>Acta Materialia</i> , 2018 , 160, 57-71	8.4	13
133	Size effects of ferroelectric and magnetoelectric properties of semi-ellipsoidal bismuth ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 714, 303-310	5.7	12
132	Nontrivial temperature behavior of the carrier concentration in graphene on ferroelectric substrate with domain walls. <i>Acta Materialia</i> , 2018 , 155, 302-317	8.4	12
131	Linear antiferrodistortive-antiferromagnetic effect in multiferroics: Physical manifestations. <i>Physical Review B</i> , 2015 , 92,	3.3	12
130	Local ferroelectric properties in polyvinylidene fluoride/barium lead zirconate titanate nanocomposites: Interface effect. <i>Journal of Applied Physics</i> , 2013 , 114, 144102	2.5	11
129	Domain growth kinetics in La0.89Sr0.11MnO3 single crystal studied by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 052019	2.5	11
128	Influence of Built-In Internal Electric Field on Ferroelectric Film Properties and Phase Diagram. <i>Ferroelectrics</i> , 2007 , 354, 86-98	0.6	11
127	Analytical description of the size effect on pyroelectric and electrocaloric properties of ferroelectric nanoparticles. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11
126	Electric field control of three-dimensional vortex states in core-shell ferroelectric nanoparticles. <i>Acta Materialia</i> , 2020 , 200, 256-273	8.4	10
125	Self-consistent theory of nanodomain formation on nonpolar surfaces of ferroelectrics. <i>Physical Review B</i> , 2016 , 93,	3.3	10
124	3D polarization texture of a symmetric 4-fold flux closure domain in strained ferroelectric PbTiO3 films. <i>Journal of Materials Research</i> , 2017 , 32, 957-967	2.5	10
123	Hierarchy of domain reconstruction processes due to charged defect migration in acceptor doped ferroelectrics. <i>Acta Materialia</i> , 2020 , 184, 267-283	8.4	10
122	Causal analysis of competing atomistic mechanisms in ferroelectric materials from high-resolution scanning transmission electron microscopy data. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	10
121	Limits for the graphene on ferroelectric domain wall p-n-junction rectifier for different regimes of current. <i>Journal of Applied Physics</i> , 2016 , 120, 214101	2.5	10
120	Building a free-energy functional from atomically resolved imaging: Atomic-scale phenomena in La-doped BiFeO3. <i>Physical Review B</i> , 2019 , 99,	3.3	9

119	Elastic coupling between nonferroelastic domain walls. <i>Physical Review Letters</i> , 2014 , 113, 207601	7.4	9
118	Surface and finite size effect on fluctuations dynamics in nanoparticles with long-range order. <i>Journal of Applied Physics</i> , 2010 , 107, 044101	2.5	9
117	Appearance of ferroelectricity in thin films of incipient ferroelectric. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3660-3672	1.3	9
116	Low-Temperature Pyroelectric Phenomena in Lithium Niobate Single Crystals. <i>Ferroelectrics</i> , 2004 , 298, 31-42	0.6	9
115	Phenomenological description of domain recording in ferroelectric semiconductors by using atomic force microscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, R79-R81	1.3	9
114	Landau-Ginzburg description of anomalous properties of novel room temperature multiferroics Pb(Fe1/2Ta1/2)x(Zr0.53Ti0.47)1-xO3 and Pb(Fe1/2Nb1/2)x(Zr0.53Ti0.47)1№O3. <i>Journal of Applied Physics</i> , 2016 , 119, 024102	2.5	9
113	Flexoelectricity induced spatially modulated phases in ferroics and liquid crystals. <i>Journal of Molecular Liquids</i> , 2018 , 267, 550-559	6	8
112	Ferromagnetism induced by magnetic vacancies as a size effect in thin films of nonmagnetic oxides. <i>Thin Solid Films</i> , 2013 , 534, 685-692	2.2	8
111	Rotomagnetic couplings influence on the magnetic properties of antiferrodistortive antiferromagnets. <i>Journal of Applied Physics</i> , 2015 , 118, 144101	2.5	8
110	Controlled mechnical modification of manganite surface with nanoscale resolution. <i>Nanotechnology</i> , 2014 , 25, 475302	3.4	8
109	Impact of Free Charges on Polarization and Pyroelectricity in Antiferrodistortive Structures and Surfaces Induced by a Flexoelectric Effect. <i>Ferroelectrics</i> , 2012 , 438, 32-44	0.6	8
108	The study of screening phenomena under the nano-domain formation in ferroelectric semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 1996-2011	1.3	8
107	Modeling of micro- and nano-scale domain recording by high-voltage atomic force microscopy in ferroelectric semiconductors. <i>Physica B: Condensed Matter</i> , 2006 , 373, 54-63	2.8	8
106	Phenomenological description of polarization switching in ferroelectric semiconductors with charged defects. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 947-961	1.3	8
105	Quantitative lateral and vertical piezoresponse force microscopy on a PbTiO3 single crystal. <i>Journal of Applied Physics</i> , 2016 , 120, 124106	2.5	8
104	Enhancement of Dielectric Properties in Epitaxial Bismuth Ferrite B ismuth Samarium Ferrite Superlattices. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600170	6.4	7
103	Ferromagnetic-like behavior of BiLaFeO-KBr nanocomposites. <i>Scientific Reports</i> , 2019 , 9, 10417	4.9	7
102	Sub-critical field domain reversal in epitaxial ferroelectric films. <i>Journal of Applied Physics</i> , 2014 , 116, 124109	2.5	7

(2018-2013)

101	Mesoscopic mechanism of the domain wall interaction with elastic defects in uniaxial ferroelectrics. Journal of Applied Physics, 2013 , 113, 187203	2.5	7
100	Misfit strain induced magnetoelectric coupling in thin ferroic films. <i>Journal of Applied Physics</i> , 2009 , 105, 084108	2.5	7
99	Theoretical Description of Coercive Field Decrease in Ferroelectrics-Semiconductors with Charged Defects. <i>Ferroelectrics</i> , 2005 , 317, 37-42	0.6	7
98	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. <i>ACS Nano</i> , 2020 , 14, 10569-10577	16.7	7
97	Exploring physics of ferroelectric domain walls via Bayesian analysis of atomically resolved STEM data. <i>Nature Communications</i> , 2020 , 11, 6361	17.4	7
96	Integer quantum Hall effect in graphene channel with p-n junction at domain wall in a strained ferroelectric film. <i>Journal of Applied Physics</i> , 2019 , 125, 082525	2.5	7
95	Flexocoupling impact on the kinetics of polarization reversal. <i>Physical Review B</i> , 2017 , 95,	3.3	6
94	Photothermoelastic contrast in nanoscale infrared spectroscopy. <i>Applied Physics Letters</i> , 2018 , 112, 033	15045	6
93	Spontaneous flexoelectric effect in nanosystems (topical review). Ferroelectrics, 2016, 500, 90-98	0.6	6
92	Top electrode size effect on hysteresis loops in piezoresponse force microscopy of Pb(Zr,Ti)O3-film on silicon structures. <i>Journal of Applied Physics</i> , 2012 , 112, 052015	2.5	6
91	Antiferroelectric thin films phase diagrams. <i>Phase Transitions</i> , 2007 , 80, 47-54	1.3	6
90	Influence of Domain Structure in Ferroelectric Substrate on Graphene Conductance (Authors' Review). <i>Ukrainian Journal of Physics</i> , 2018 , 63, 49	0.4	6
89	Hidden symmetry of flexoelectric coupling. <i>Physical Review B</i> , 2018 , 98,	3.3	6
88	Chiral polarization textures induced by the flexoelectric effect in ferroelectric nanocylinders. <i>Physical Review B</i> , 2021 , 104,	3.3	6
87	Highly enhanced ferroelectricity in HfO-based ferroelectric thin film by light ion bombardment <i>Science</i> , 2022 , 376, 731-738	33.3	6
86	Phenomenological description of bright domain walls in ferroelectric-antiferroelectric layered chalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	5
85	Phase diagrams of single-layer two-dimensional transition metal dichalcogenides: Landau theory. <i>Physical Review B</i> , 2020 , 101,	3.3	5
84	Fixed volume effect on polar properties and phase diagrams of ferroelectric semi-ellipsoidal nanoparticles. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	5

83	Temperature behavior of graphene conductance induced by piezoelectric effect in a ferroelectric substrate. <i>Journal of Applied Physics</i> , 2018 , 124, 084103	2.5	5
82	Effective flexoelectric and flexomagnetic response of ferroics. <i>Solid State Physics</i> , 2019 , 70, 237-289	2	5
81	Hysteretic phenomena in GFET: Comprehensive theory and experiment. <i>Journal of Applied Physics</i> , 2017 , 122, 044504	2.5	5
80	Investigations of LiNbO3 and LiTaO3 Single Crystals for Pyroelectric Applications in the Wide Temperature Range. <i>Ferroelectrics</i> , 2007 , 353, 202-211	0.6	5
79	Melting of spatially modulated phases at domain wall/surface junctions in antiferrodistortive multiferroics. <i>Physical Review B</i> , 2020 , 102,	3.3	5
78	Flexoinduced ferroelectricity in low-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	5
77	Thermooptical evidence of carrier-stabilized ferroelectricity in ultrathin electrodeless films. <i>Scientific Reports</i> , 2018 , 8, 8497	4.9	5
76	Magnetic dielectric-graphene-ferroelectric system as a promising non-volatile device for modern spintronics. <i>Journal of Applied Physics</i> , 2019 , 125, 174105	2.5	4
75	Effect of annealing on the chargeWoltage characteristics of SrBi2(TaxNb1₩)2O9 films. <i>Physica B: Condensed Matter</i> , 2015 , 464, 1-8	2.8	4
74	Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO3thin films. <i>Applied Materials Today</i> , 2020 , 20, 100740	6.6	4
73	Oxide nanomaterials with properties absent in bulk (Author Review). <i>Powder Metallurgy and Metal Ceramics</i> , 2013 , 52, 32-38	0.8	4
72	Percolation Magnetism in Ferroelectric Nanoparticles. <i>Nanoscale Research Letters</i> , 2017 , 12, 382	5	4
71	Correlation Radius in Thin Ferroelectric Films. Ferroelectrics, 2010, 400, 243-254	0.6	4
7º	Theoretical description of ferroelectric and pyroelectric hystereses in the disordered ferroelectric-semiconductor films. <i>Journal of Applied Physics</i> , 2006 , 100, 014109	2.5	4
69	Modified Landau-Ginzburg-Devonshire Description of Disordered Ferroelectrics with Static Charged Defects. <i>Ferroelectrics</i> , 2004 , 298, 199-209	0.6	4
68	Surface Tension and Mismatch Effects in Ferroelectric Thin Film Properties. <i>Ferroelectrics</i> , 2004 , 298, 83-96	0.6	4
67	Autowave type instability in photorefractive crystals 1999,		4
66	Bayesian inference in band excitation scanning probe microscopy for optimal dynamic model selection in imaging. <i>Journal of Applied Physics</i> , 2020 , 128, 054105	2.5	4

(2021-2016)

65	Extrinsic size effect of pyroelectric response of ferroelectric films. <i>Journal of Applied Physics</i> , 2016 , 120, 174102	2.5	4
64	Intrinsic space charge layers and field enhancement in ferroelectric nanojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 022903	3.4	3
63	Reply to Comment on Drigin of piezoelectric response under a biased scanning probe microscopy tip across a 180 ferroelectric domain wall <i>Physical Review B</i> , 2014 , 89,	3.3	3
62	Ferroelectric Thin Film Properties: Peculiarities Related to Mismatch-Induced Polarization. <i>Ferroelectrics</i> , 2005 , 314, 85-95	0.6	3
61	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 103-108	0.4	3
60	Strain Engineering of Ferromagnetic-Graphene-Ferroelectric Nanostructures. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
59	Anomalies of phase diagrams and physical properties of antiferrodistortive perovskite oxides. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 452-479	5.7	3
58	New trends in fundamental research due to the spontaneous flexoelectric effect in nanosized and bulk ferroelectrics. <i>Ferroelectrics</i> , 2018 , 532, 67-88	0.6	3
57	Hypothesis learning in automated experiment: application to combinatorial materials libraries <i>Advanced Materials</i> , 2022 , e2201345	24	3
56	Size effect of soft phonon dispersion in nanosized ferroics. <i>Physical Review B</i> , 2019 , 99,	3.3	2
55	Ferroelectric Thin Film Self-Polarization Induced by Mismatch Effect. Ferroelectrics, 2005, 317, 125-133	0.6	2
54	Theoretical consideration of pits recording and etching processes in chalcogenide vitreous semiconductors. <i>Optics Communications</i> , 2006 , 259, 545-552	2	2
53	Light Induced Micro-Domains in Ferroelectrics. Ferroelectrics, 2003, 288, 265-275	0.6	2
52	Dynamic halo scattering in photorefractive crystals 2001 ,		2
51	Mesoscopic structure of mixed type domain walls in multiaxial ferroelectrics. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
50	Flexoelectricity Impact on the Domain Wall Structure and Polar Properties 2016 , 311-336		2
49	Origin of Ferroelectricity and Multiferroicity in Binary Oxide Thin Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 273-278	3.2	2
48	Predictability as a probe of manifest and latent physics: The case of atomic scale structural, chemical, and polarization behaviors in multiferroic Sm-doped BiFeO3. <i>Applied Physics Reviews</i> , 2021 , 8, 011403	17.3	2

47	Ferroelectric nanocomposites: Influence of nanoparticle size distribution on electrocaloric conversion parameters 2020 ,		1
46	The Influence of the Distribution Function of Ferroelectric Nanoparticles Sizes on Their Electrocaloric and Pyroelectric Properties. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 2445-2453	3.2	1
45	Gate-Voltage Control of Quantum Yield in Monolayer Transition-Metal Dichalcogenide. <i>Physical Review Applied</i> , 2020 , 13,	4.3	1
44	Topological Defects in Ferroic Materials. <i>Springer Series in Materials Science</i> , 2016 , 181-197	0.9	1
43	Ferroic properties of nanosized SnO2. <i>Phase Transitions</i> , 2013 , 86, 903-909	1.3	1
42	ELECTROCHEMICAL STRAIN MICROSCOPY OF OXYGEN-ION CONDUCTORS: FUEL CELLS AND OXIDE ELECTRONICS. World Scientific Series in Nanoscience and Nanotechnology, 2013 , 253-298	0.1	1
41	Untangling Coupled Order Parameters at Complex Oxide Interfaces with Aberration-Corrected STEM and EELS. <i>Microscopy and Microanalysis</i> , 2012 , 18, 318-319	0.5	1
40	Local polarization dynamics in chemical solution deposited PZT capacitors by switching spectroscopy PFM 2008 ,		1
39	The Influence of Mismatch-Induced Field on Thin Ferroelectric Film Size Effects. <i>Integrated Ferroelectrics</i> , 2004 , 64, 17-38	0.8	1
38	Polar properties and local piezoelectric response of ferroelectric nanotubes. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2008 , 11, 370-380	0.4	1
37	Domain structure formation by using Scanning Probe Microscopy: equilibrium polarization distribution and effective piezoelectric response calculations. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2009 , 12, 116-124	0.4	1
36	Dependence of Soft Phonon Spectra on Flexoelectric Cou-pling in Ferroelectrics. <i>Ukrainian Journal of Physics</i> , 2018 , 63, 168	0.4	1
35	Flexoelectric and Piezoelectric Coupling in a Bended MoS2 Monolayer. Symmetry, 2021, 13, 2086	2.7	1
34	Oxygen Vacancy Injection as a Pathway to Enhancing Electromechanical Response in Ferroelectrics. <i>Advanced Materials</i> , 2021 , e2106426	24	1
33	The influence of size effects on local piezoelectric response of thin films. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2008 , 10, 36-41	0.4	1
32	Effect of Surface Ionic Screening on Polarization Reversal and Phase Diagrams in Thin Antiferroelectric Films for Information and Energy Storage. <i>Physical Review Applied</i> , 2021 , 16,	4.3	1
31	Flexoelectric Effect Impact on the Hysteretic Dynamics of the Local Electromechanical Response of Mixed Ionic-Electronic Conductors. <i>Ukrainian Journal of Physics</i> , 2017 , 62, 326-334	0.4	1
30	Investigating phase transitions from local crystallographic analysis based on statistical learning of atomic environments in 2D MoS2-ReS2. <i>Applied Physics Reviews</i> , 2021 , 8, 011409	17.3	1

(2001-2021)

29	Correlation Between Corrugation-Induced Flexoelectric Polarization and Conductivity of Low-Dimensional Transition Metal Dichalcogenides. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
28	Flexo-elastic control factors of domain morphology in core-shell ferroelectric nanoparticles: Soft and rigid shells. <i>Acta Materialia</i> , 2021 , 212, 116889	8.4	1
27	Fundamental miniaturization limits for MOSFETs with a monolayer MoS2 channel. <i>Applied Physics Letters</i> , 2021 , 119, 042102	3.4	1
26	Impact of Flexoelectric Effect on Electro-mechanics of Moderate Conductors 2016 , 265-283		1
25	A combined theoretical and experimental study of the phase coexistence and morphotropic boundaries in ferroelectric-antiferroelectric-antiferrodistortive multiferroics. <i>Acta Materialia</i> , 2021 , 213, 116939	8.4	1
24	Stress-induced phase transitions in nanoscale CuInP2S6. <i>Physical Review B</i> , 2021 , 104,	3.3	1
23	Multi-objective Bayesian optimization of ferroelectric materials with interfacial control for memory and energy storage applications. <i>Journal of Applied Physics</i> , 2021 , 130, 204102	2.5	O
22	Phenomenological theory of defect driven flexo-chemical phenomena in ferroics. <i>Ferroelectrics</i> , 2020 , 569, 62-69	0.6	O
21	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12355-12365	3.8	Ο
20	Control of Domain States in Rhombohedral Lead Zirconate Titanate Films via Misfit Strains and Surface Charges. <i>Advanced Electronic Materials</i> ,2100386	6.4	О
19	Kinetics of interfacial microstructural variation across insulator-thermoelectric semiconductor interface and its effects on thermoelectric properties of magnesium silicide thin films. <i>Materialia</i> , 2019 , 7, 100375	3.2	
18	Nontrivial magnetic field related phenomena in the singlelayer graphene on ferroelectric substrate (Review Article). <i>Low Temperature Physics</i> , 2020 , 46, 211-218	0.7	
17	NMR study of size effects in relaxor PMN nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2653-2655	1.3	
16	Modeling of the Nanodomain Formation in the Heterostructure BPM Tip ElectrodeThin Ferroelectric FilmBemiconductor Substrate [Ferroelectrics, 2011, 418, 19-27]	0.6	
15	Unconventional Antiferroelectric Phase Stabilization in Thin Film BiFeO3 by Interface-Induced Rotoelectric Coupling Effect. <i>Microscopy and Microanalysis</i> , 2012 , 18, 412-413	0.5	
14	Mismatch-Induced Electric Field as Reason of Self-Polarization Phenomenon and Electret State Appearance in the Strained Ultrathin Ferroelectric Films. <i>Ferroelectrics</i> , 2006 , 335, 257-268	0.6	
13	Polarization switching in ferroelectric crystals with defects charged under photo- or UV-excitation. <i>Proceedings of SPIE</i> , 2005 , 6023, 189	1.7	
12	Theoretical study of electrical oscillation effect in Sn2P2Se6 single crystals with incommensurate phase. <i>Ferroelectrics</i> , 2001 , 254, 101-111	0.6	

11	Non-stationary and relaxation processes and induced microscale polar regions in incommensurate phase of ferroelectric semiconductor Sn2P2Se6. <i>Ferroelectrics</i> , 1999 , 235, 275-285	0.6
10	Modelling of micro- and nanodomain arrays recorded in ferroelectrics-semiconductors by using atomic force microscopy. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2006 , 9, 26-33	3 ^{0.4}
9	Nanoferroics: State-of-art, gradient-driven couplings and advanced applications (Author review). <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2018 , 21, 139-151	0.4
8	Mesoscopic theory of defect ordering-disordering transitions in thin oxide films. <i>Scientific Reports</i> , 2020 , 10, 22377	4.9
7	Ferroelectric Nanoparticles in a Nanocomposite. Influence of Size Distribution on Temperature Dependences of Pyroelectric and Electrocaloric Transformation. Mkrosistemi, Elektronka Ta Akustika, 2020 , 25, 27-35	0.1
6	Electromigration and Diffusion Researches in Scanning Probe Microscopy of Solid Electrolytes. <i>Ukrainian Journal of Physics</i> , 2015 , 60, 1027-1035	0.4
5	The resolution function and effective response of piezoelectric thin films in Piezoresponse Force Microscopy. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2008 , 11, 171-177	0.4
4	Bayesian Inference for Materials Physics from STEM Data: The Probability Distribution of Physical Parameters from Ferroelectric Domain Wall Observations. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1212-	-92514
3	Causal Analysis of Parameterized Atomic HAADF-STEM Across a Doped Ferroelectric Phase Boundary. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2762-2764	0.5
2	Phenomenological Description of Soft Phonon Spectra, Phase Diagrams, and Domain Morphology of Low-Dimensional Ferroelectric Layered Chalcogenides 2022 , 295-357	

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