

Anna Morozovska

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.

298
papers

10,049
citations

53
h-index

88
g-index

316
ext. papers

11,034
ext. citations

5.1
avg, IF

6.25
L-index

#	Paper	IF	Citations
298	Hypothesis learning in automated experiment: application to combinatorial materials libraries.. <i>Advanced Materials</i> , 2022 , e2201345	24	3
297	Phenomenological Description of Soft Phonon Spectra, Phase Diagrams, and Domain Morphology of Low-Dimensional Ferroelectric Layered Chalcogenides 2022 , 295-357		
296	Highly enhanced ferroelectricity in HfO-based ferroelectric thin film by light ion bombardment.. <i>Science</i> , 2022 , 376, 731-738	33.3	6
295	Nano Scale Investigations, Domain Structure, and Switching Processes of Low-Dimensional Ferroelectric Layered Chalcogenides 2022 , 275-294		
294	Flexoelectric and Piezoelectric Coupling in a Bended MoS2 Monolayer. <i>Symmetry</i> , 2021 , 13, 2086	2.7	1
293	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	0
292	Oxygen Vacancy Injection as a Pathway to Enhancing Electromechanical Response in Ferroelectrics. <i>Advanced Materials</i> , 2021 , e2106426	24	1
291	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
290	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
289	Correlation Between Corrugation-Induced Flexoelectric Polarization and Conductivity of Low-Dimensional Transition Metal Dichalcogenides. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
288	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	0
287	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
286	Fundamental miniaturization limits for MOSFETs with a monolayer MoS2 channel. <i>Applied Physics Letters</i> , 2021 , 119, 042102	3.4	1
285	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, 1212-1214	9.5	1
284	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
283	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
282	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

281	Causal Analysis of Parameterized Atomic HAADF-STEM Across a Doped Ferroelectric Phase Boundary. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2762-2764	0.5	
280	Chiral polarization textures induced by the flexoelectric effect in ferroelectric nanocylinders. <i>Physical Review B</i> , 2021 , 104,	3.3	6
279	Stress-induced phase transitions in nanoscale CuInP2S6. <i>Physical Review B</i> , 2021 , 104,	3.3	1
278	Phenomenological description of bright domain walls in ferroelectric-antiferroelectric layered chalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	5
277	Electric field control of three-dimensional vortex states in core-shell ferroelectric nanoparticles. <i>Acta Materialia</i> , 2020 , 200, 256-273	8.4	10
276	Phase diagrams of single-layer two-dimensional transition metal dichalcogenides: Landau theory. <i>Physical Review B</i> , 2020 , 101,	3.3	5
275	Ferroelectric nanocomposites: Influence of nanoparticle size distribution on electrocaloric conversion parameters 2020 ,		1
274	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	
273	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
272	Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO3 thin films. <i>Applied Materials Today</i> , 2020 , 20, 100740	6.6	4
271	Gate-Voltage Control of Quantum Yield in Monolayer Transition-Metal Dichalcogenide. <i>Physical Review Applied</i> , 2020 , 13,	4.3	1
270	Mesoscopic structure of mixed type domain walls in multiaxial ferroelectrics. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
269	Phenomenological theory of defect driven flexo-chemical phenomena in ferroics. <i>Ferroelectrics</i> , 2020 , 569, 62-69	0.6	0
268	Mesoscopic theory of defect ordering-disordering transitions in thin oxide films. <i>Scientific Reports</i> , 2020 , 10, 22377	4.9	
267	Ferroelectric Nanoparticles in a Nanocomposite. Influence of Size Distribution on Temperature Dependences of Pyroelectric and Electrocaloric Transformation. <i>Mikrosistemi, Elektronika Ta Akustika</i> , 2020 , 25, 27-35	0.1	
266	Controlling the domain structure of ferroelectric nanoparticles using tunable shells. <i>Acta Materialia</i> , 2020 , 183, 36-50	8.4	13
265	Possible electrochemical origin of ferroelectricity in HfO2 thin films. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 153628	5.7	36
264	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

263	Piezoelectric domain walls in van der Waals antiferroelectric CuInPSe. <i>Nature Communications</i> , 2020 , 11, 3623	17.4	20
262	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. <i>ACS Nano</i> , 2020 , 14, 10569-10577	16.7	7
261	Melting of spatially modulated phases at domain wall/surface junctions in antiferrodistortive multiferroics. <i>Physical Review B</i> , 2020 , 102,	3.3	5
260	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
259	Flexoinduced ferroelectricity in low-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2020 , 102,	3.3	5
258	Strain Engineering of Ferromagnetic-Graphene-Ferroelectric Nanostructures. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
257	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
256	Exploring physics of ferroelectric domain walls via Bayesian analysis of atomically resolved STEM data. <i>Nature Communications</i> , 2020 , 11, 6361	17.4	7
255	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
254	Intrinsic structural instabilities of domain walls driven by gradient coupling: Meandering antiferrodistortive-ferroelectric domain walls in BiFeO ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	18
253	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	
252	Building a free-energy functional from atomically resolved imaging: Atomic-scale phenomena in La-doped BiFeO ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	9
251	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
250	Size effect of soft phonon dispersion in nanosized ferroics. <i>Physical Review B</i> , 2019 , 99,	3.3	2
249	Ferromagnetic-like behavior of BiLaFeO-KBr nanocomposites. <i>Scientific Reports</i> , 2019 , 9, 10417	4.9	7
248	Effective flexoelectric and flexomagnetic response of ferroics. <i>Solid State Physics</i> , 2019 , 70, 237-289	2	5
247	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019 , 3,	3.2	25
246	Analytical description of the size effect on pyroelectric and electrocaloric properties of ferroelectric nanoparticles. <i>Physical Review Materials</i> , 2019 , 3,	3.2	11

245	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
244	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
243	Ultrafast current imaging by Bayesian inversion. <i>Nature Communications</i> , 2018 , 9, 513	17.4	13
242	Photothermoelastic contrast in nanoscale infrared spectroscopy. <i>Applied Physics Letters</i> , 2018 , 112, 033105	3.4	6
241	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
240	Flexoelectricity induced spatially modulated phases in ferroics and liquid crystals. <i>Journal of Molecular Liquids</i> , 2018 , 267, 550-559	6	8
239	Defect-driven flexochemical coupling in thin ferroelectric films. <i>Physical Review B</i> , 2018 , 97,	3.3	31
238	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
237	Rotomagnetic coupling in fine-grained multiferroic BiFeO ₃ : Theory and experiment. <i>Physical Review B</i> , 2018 , 97,	3.3	19
236	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
235	Labyrinthine domains in ferroelectric nanoparticles: Manifestation of a gradient-induced morphological transition. <i>Physical Review B</i> , 2018 , 98,	3.3	24
234	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
233	Influence of Domain Structure in Ferroelectric Substrate on Graphene Conductance (Authors' Review). <i>Ukrainian Journal of Physics</i> , 2018 , 63, 49	0.4	6
232	Dependence of Soft Phonon Spectra on Flexoelectric Cou-pling in Ferroelectrics. <i>Ukrainian Journal of Physics</i> , 2018 , 63, 168	0.4	1
231	Nanoferroics: State-of-art, gradient-driven couplings and advanced applications (Author's review). <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2018 , 21, 139-151	0.4	
230	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
229	Ferroelectricity induced by oxygen vacancies in relaxors with perovskite structure. <i>Physical Review B</i> , 2018 , 98,	3.3	24
228	Hidden symmetry of flexoelectric coupling. <i>Physical Review B</i> , 2018 , 98,	3.3	6

227	Control of polarization reversal temperature behavior by surface screening in thin ferroelectric films. <i>Acta Materialia</i> , 2018 , 160, 57-71	8.4	13
226	Analytical description of domain morphology and phase diagrams of ferroelectric nanoparticles. <i>Acta Materialia</i> , 2018 , 160, 109-120	8.4	20
225	Thermooptical evidence of carrier-stabilized ferroelectricity in ultrathin electrodeless films. <i>Scientific Reports</i> , 2018 , 8, 8497	4.9	5
224	Flexocoupling impact on the kinetics of polarization reversal. <i>Physical Review B</i> , 2017 , 95,	3.3	6
223	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
222	Mixed electrochemical ferroelectric states in nanoscale ferroelectrics. <i>Nature Physics</i> , 2017 , 13, 812-818	16.2	72
221	Piezoresponse of ferroelectric films in ferroionic states: Time and voltage dynamics. <i>Applied Physics Letters</i> , 2017 , 110, 182907	3.4	13
220	Thermodynamic potential and phase diagram for multiferroic bismuth ferrite (BiFeO ₃). <i>Npj Computational Materials</i> , 2017 , 3,	10.9	46
219	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of Glycine. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20029-20037	9.5	14
218	Flexocoupling-induced soft acoustic modes and the spatially modulated phases in ferroelectrics. <i>Physical Review B</i> , 2017 , 96,	3.3	14
217	p-n Junction Dynamics Induced in a Graphene Channel by Ferroelectric-Domain Motion in the Substrate. <i>Physical Review Applied</i> , 2017 , 8,	4.3	19
216	Tuning the polar states of ferroelectric films via surface charges and flexoelectricity. <i>Acta Materialia</i> , 2017 , 137, 85-92	8.4	40
215	Hysteretic phenomena in GFET: Comprehensive theory and experiment. <i>Journal of Applied Physics</i> , 2017 , 122, 044504	2.5	5
214	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
213	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
212	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
211	Lost surface waves in nonpiezoelectric solids. <i>Physical Review B</i> , 2017 , 96,	3.3	18
210	Percolation Magnetism in Ferroelectric Nanoparticles. <i>Nanoscale Research Letters</i> , 2017 , 12, 382	5	4

209	Ferroionic states in ferroelectric thin films. <i>Physical Review B</i> , 2017 , 95,	3.3	41
208	3D polarization texture of a symmetric 4-fold flux closure domain in strained ferroelectric PbTiO ₃ films. <i>Journal of Materials Research</i> , 2017 , 32, 957-967	2.5	10
207	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 103-108	0.4	3
206	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
205	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
204	Self-consistent theory of nanodomain formation on nonpolar surfaces of ferroelectrics. <i>Physical Review B</i> , 2016 , 93,	3.3	10
203	Enhancement of Dielectric Properties in Epitaxial Bismuth Ferrite/Bismuth Samarium Ferrite Superlattices. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600170	6.4	7
202	Spontaneous flexoelectric effect in nanosystems (topical review). <i>Ferroelectrics</i> , 2016 , 500, 90-98	0.6	6
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	Topological Defects in Ferroic Materials. <i>Springer Series in Materials Science</i> , 2016 , 181-197	0.9	1
199	Room-temperature paramagnetolectric effect in magnetolectric multiferroics Pb(Fe _{1/2} Nb _{1/2})O ₃ and its solid solution with PbTiO ₃ . <i>Journal of Materials Science</i> , 2016 , 51, 5330-5342	4.3	45
198	Determination of ferroelectric contributions to electromechanical response by frequency dependent piezoresponse force microscopy. <i>Scientific Reports</i> , 2016 , 6, 30579	4.9	32
197	Landau-Ginzburg description of anomalous properties of novel room temperature multiferroics Pb(Fe _{1/2} Ta _{1/2}) _x (Zr _{0.53} Ti _{0.47}) _{1-x} O ₃ and Pb(Fe _{1/2} Nb _{1/2}) _x (Zr _{0.53} Ti _{0.47}) _{1-x} O ₃ . <i>Journal of Applied Physics</i> , 2016 , 119, 024102	2.5	9
196	Ballistic conductivity of graphene channel with p-n junction at ferroelectric domain wall. <i>Applied Physics Letters</i> , 2016 , 108, 232902	3.4	18
195	Surface and finite size effects impact on the phase diagrams, polar, and dielectric properties of (Sr,Bi)Ta ₂ O ₉ ferroelectric nanoparticles. <i>Journal of Applied Physics</i> , 2016 , 119, 204104	2.5	26
194	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
193	Quantitative lateral and vertical piezoresponse force microscopy on a PbTiO ₃ single crystal. <i>Journal of Applied Physics</i> , 2016 , 120, 124106	2.5	8
192	Size-effect in layered ferroelectric CuInP ₂ S ₆ . <i>Applied Physics Letters</i> , 2016 , 109, 172901	3.4	39

191	Extrinsic size effect of pyroelectric response of ferroelectric films. <i>Journal of Applied Physics</i> , 2016 , 120, 174102	2.5	4
190	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
189	Impact of Flexoelectric Effect on Electro-mechanics of Moderate Conductors 2016 , 265-283		1
188	Flexoelectricity Impact on the Domain Wall Structure and Polar Properties 2016 , 311-336		2
187	Effect of annealing on the charge-voltage characteristics of SrBi ₂ (Ta _x Nb _{1-x}) ₂ O ₉ films. <i>Physica B: Condensed Matter</i> , 2015 , 464, 1-8	2.8	4
186	Ferroelectric switching by the grounded scanning probe microscopy tip. <i>Physical Review B</i> , 2015 , 91,	3.3	15
185	Ferroelectrics. Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO ₃ films. <i>Science</i> , 2015 , 348, 547-51	33.3	308
184	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
183	CuInPbS ₄ Room Temperature Layered Ferroelectric. <i>Nano Letters</i> , 2015 , 15, 3808-14	11.5	184
182	Multiferroics: Focusing light on flexoelectricity. <i>Nature Nanotechnology</i> , 2015 , 10, 916-7	28.7	48
181	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
180	Linear antiferrodistortive-antiferromagnetic effect in multiferroics: Physical manifestations. <i>Physical Review B</i> , 2015 , 92,	3.3	12
179	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
178	Electroelastic fields in artificially created vortex cores in epitaxial BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2015 , 107, 052903	3.4	23
177	Intrinsic space charge layers and field enhancement in ferroelectric nanojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 022903	3.4	3
176	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
175	Rotomagnetic couplings influence on the magnetic properties of antiferrodistortive antiferromagnets. <i>Journal of Applied Physics</i> , 2015 , 118, 144101	2.5	8
174	Polarization reversal in organic-inorganic ferroelectric composites: Modeling and experiment. <i>Applied Physics Letters</i> , 2015 , 107, 142907	3.4	15

173	Finite-size effects of hysteretic dynamics in multilayer graphene on a ferroelectric. <i>Physical Review B</i> , 2015 , 91,	3.3	17
172	Electromigration and Diffusion Researches in Scanning Probe Microscopy of Solid Electrolytes. <i>Ukrainian Journal of Physics</i> , 2015 , 60, 1027-1035	0.4	
171	Intermittency, quasiperiodicity and chaos in probe-induced ferroelectric domain switching. <i>Nature Physics</i> , 2014 , 10, 59-66	16.2	116
170	Thermotropic phase boundaries in classic ferroelectrics. <i>Nature Communications</i> , 2014 , 5, 3172	17.4	105
169	Electric-field induced ferromagnetic phase in paraelectric antiferromagnets. <i>Physical Review B</i> , 2014 , 89,	3.3	21
168	Ferroelectric domain triggers the charge modulation in semiconductors (invited). <i>Journal of Applied Physics</i> , 2014 , 116, 066817	2.5	16
167	Sub-critical field domain reversal in epitaxial ferroelectric films. <i>Journal of Applied Physics</i> , 2014 , 116, 124109	2.5	7
166	Elastic coupling between nonferroelastic domain walls. <i>Physical Review Letters</i> , 2014 , 113, 207601	7.4	9
165	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
164	Self-consistent modeling of electrochemical strain microscopy of solid electrolytes. <i>Nanotechnology</i> , 2014 , 25, 445701	3.4	21
163	Direct observation of ferroelectric field effect and vacancy-controlled screening at the BiFeO ₃ /La _x Sr _{1-x} MnO ₃ interface. <i>Nature Materials</i> , 2014 , 13, 1019-25	27	195
162	Ionic field effect and memristive phenomena in single-point ferroelectric domain switching. <i>Nature Communications</i> , 2014 , 5, 4545	17.4	41
161	Flexoelectricity and ferroelectric domain wall structures: Phase-field modeling and DFT calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	77
160	Defect thermodynamics and kinetics in thin strained ferroelectric films: The interplay of possible mechanisms. <i>Physical Review B</i> , 2014 , 89,	3.3	25
159	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
158	Interface control of a morphotropic phase boundary in epitaxial samarium modified bismuth ferrite superlattices. <i>Physical Review B</i> , 2014 , 90,	3.3	19
157	Humidity effects on tip-induced polarization switching in lithium niobate. <i>Applied Physics Letters</i> , 2014 , 104, 092908	3.4	58
156	Reply to Comment on Origin 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

155	Electrostrictive and electrostatic responses in contact mode voltage modulated scanning probe microscopies. <i>Applied Physics Letters</i> , 2014 , 104, 232901	3.4	37
154	Controlled mechanical modification of manganite surface with nanoscale resolution. <i>Nanotechnology</i> , 2014 , 25, 475302	3.4	8
153	Novel room temperature multiferroics on the base of single-phase nanostructured perovskites. <i>Journal of Applied Physics</i> , 2014 , 116, 054101	2.5	28
152	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, 066808	2.5	24
151	Effect of Vegard strains on the extrinsic size effects in ferroelectric nanoparticles. <i>Physical Review B</i> , 2014 , 90,	3.3	27
150	Oxide nanomaterials with properties absent in bulk (Author Review). <i>Powder Metallurgy and Metal Ceramics</i> , 2013 , 52, 32-38	0.8	4
149	Domain Wall Conduction and Polarization-Mediated Transport in Ferroelectrics. <i>Advanced Functional Materials</i> , 2013 , 23, 2592-2616	15.6	96
148	Mechanical control of electroresistive switching. <i>Nano Letters</i> , 2013 , 13, 4068-74	11.5	48
147	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
146	Universal emergence of spatially modulated structures induced by flexoantiferrodistortive coupling in multiferroics. <i>Physical Review B</i> , 2013 , 88,	3.3	32
145	New multiferroics based on EuxSr1-xTiO3 nanotubes and nanowires. <i>Journal of Applied Physics</i> , 2013 , 113, 024107	2.5	24
144	Effective piezoelectric response of twin walls in ferroelectrics. <i>Journal of Applied Physics</i> , 2013 , 113, 187222	2.2	16
143	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
142	Epitaxial Bi5Ti3FeO15-CoFe2O4 pillar-matrix multiferroic nanostructures. <i>ACS Nano</i> , 2013 , 7, 11079-86	16.7	52
141	Ferroc properties of nanosized SnO2. <i>Phase Transitions</i> , 2013 , 86, 903-909	1.3	1
140	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
139	Structural phase transitions and electronic phenomena at 180-degree domain walls in rhombohedral BaTiO3. <i>Physical Review B</i> , 2013 , 87,	3.3	43
138	Low-symmetry monoclinic ferroelectric phase stabilized by oxygen octahedra rotations in strained EuxSr1-xTiO3 thin films. <i>Physical Review B</i> , 2013 , 87,	3.3	16

137	Interplay of octahedral tilts and polar order in BiFeO ₃ films. <i>Advanced Materials</i> , 2013 , 25, 2497-504	24	94
136	Variable temperature electrochemical strain microscopy of Sm-doped ceria. <i>Nanotechnology</i> , 2013 , 24, 145401	3.4	17
135	Ferroelectric control of the conduction at the LaAlO ₃ /SrTiO ₃ heterointerface. <i>Advanced Materials</i> , 2013 , 25, 3357-64	24	78
134	Mesoscopic mechanism of the domain wall interaction with elastic defects in uniaxial ferroelectrics. <i>Journal of Applied Physics</i> , 2013 , 113, 187203	2.5	7
133	Pyroelectric origin of the carrier density modulation at graphene-ferroelectric interface. <i>Journal of Applied Physics</i> , 2013 , 114, 014101	2.5	13
132	ELECTROCHEMICAL STRAIN MICROSCOPY OF OXYGEN-ION CONDUCTORS: FUEL CELLS AND OXIDE ELECTRONICS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2013 , 253-298	0.1	1
131	Defect driven ferroelectricity and magnetism in nanocrystalline KTaO ₃ . <i>Physica B: Condensed Matter</i> , 2012 , 407, 614-623	2.8	25
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