

# V Ya Shur

## 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.

508  
papers

7,499  
citations

45  
h-index

63  
g-index

566  
ext. papers

8,686  
ext. citations

2.4  
avg, IF

6.16  
L-index

#	Paper	IF	Citations
508	Enhanced antiferroelectric-like relaxor ferroelectric characteristic boosting energy storage performance of (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based ceramics via defect engineering. <i>Journal of Materiomics</i> , <b>2022</b> ,	6.7	2
507	Enhancement of energy storage performance in lead-free barium titanate-based relaxor ferroelectrics through a synergistic two-step strategy design. <i>Chemical Engineering Journal</i> , <b>2022</b> , 434, 134678	14.7	5
506	Ultrahigh electrostrictive effect in potassium sodium niobate-based lead-free ceramics. <i>Journal of the European Ceramic Society</i> , <b>2022</b> , 42, 944-953	6	3
505	Achieving ultrahigh energy storage performance over a broad temperature range in (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based eco-friendly relaxor ferroelectric ceramics via multiple engineering processes. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 896, 163139	5.7	3
504	Evolution of Nanodomains and Formation of Self-Organized Structures during Local Switching in X-Cut LNOI. <i>Crystals</i> , <b>2022</b> , 12, 659	2.3	
503	Tip-induced domain growth on the non-polar cut of lithium niobate with various stoichiometry deviations. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 214103	2.5	
502	Effective strategy to improve energy storage properties in lead-free (Ba <sub>0.8</sub> Sr <sub>0.2</sub> )TiO <sub>3</sub> -Bi(Mg <sub>0.5</sub> Zr <sub>0.5</sub> )O <sub>3</sub> relaxor ferroelectric ceramics. <i>Chemical Engineering Journal</i> , <b>2022</b> , 137389	14.7	1
501	New Data on Various Directed Dose-Response Relationships and the Combined Action Types for Different Outcomes of Nanoparticle Cytotoxicity. <i>Dose-Response</i> , <b>2021</b> , 19, 15593258211052420	2.3	3
500	Photoinduced conductivity during sub-bandgap illumination in periodically poled MgO:LiNbO <sub>3</sub> with charged domain walls. <i>Optical Materials</i> , <b>2021</b> , 122, 111813	3.3	
499	Tunable injection-seeded fan-out-PPLN optical parametric oscillator for high-sensitivity gas detection. <i>Laser Physics Letters</i> , <b>2021</b> , 18, 116201	1.5	
498	Influence of Humidity on Local Polarization Reversal in a Rb:KTP Single Crystal. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 260-266	4	2
497	Cardioinotropic Effects in Subchronic Intoxication of Rats with Lead and/or Cadmium Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
496	In-plane polarization contribution to the vertical piezoresponse force microscopy signal mediated by the cantilever Buckling. <i>Applied Surface Science</i> , <b>2021</b> , 543, 148808	6.7	4
495	Domain merging in LaBGeO <sub>5</sub> single crystals. <i>Ferroelectrics</i> , <b>2021</b> , 575, 151-157	0.6	
494	Magnetoelastic effect in CoNi particles caused by thermal resizing of a lithium niobate crystal substrate. <i>Ferroelectrics</i> , <b>2021</b> , 574, 65-71	0.6	
493	Transformation of initial domain structure by ac electric field in lithium tantalate crystals with composition gradient. <i>Ferroelectrics</i> , <b>2021</b> , 574, 136-143	0.6	0
492	Formation of submicron stripe domain ensembles during polarization reversal in Rb doped KTP crystal covered by dielectric layer. <i>Ferroelectrics</i> , <b>2021</b> , 574, 101-108	0.6	0

491	The input of Barkhausen pulses to the switching current in congruent lithium niobate. <i>Ferroelectrics</i> , <b>2021</b> , 574, 156-163	0.6	0
490	Modeling and physical properties of diphenylalanine peptide nanotubes containing water molecules. <i>Ferroelectrics</i> , <b>2021</b> , 574, 78-91	0.6	5
489	Local polarization reversal in barium titanate single crystals and ceramics. <i>Ferroelectrics</i> , <b>2021</b> , 574, 1-7	0.6	
488	Tilt control of the charged domain walls created by local switching on the non-polar cut of MgO doped lithium niobate single crystals. <i>Ferroelectrics</i> , <b>2021</b> , 574, 16-22	0.6	3
487	Forward domain growth on the non-polar cut of lithium niobate crystal during irradiation by focused ion beam. <i>Ferroelectrics</i> , <b>2021</b> , 574, 92-100	0.6	2
486	Design of SiO <sub>2</sub> /aminopropylsilane-modified magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles for doxorubicin immobilization. <i>Russian Chemical Bulletin</i> , <b>2021</b> , 70, 987-994	1.7	1
485	Second harmonic generation in periodically poled MgO:LN crystal with 2 μm period created by e-beam irradiation. <i>Ferroelectrics</i> , <b>2021</b> , 576, 50-54	0.6	0
484	Evolution of the domain structure during polarization reversal in relaxor SBN single crystals studied by Brenkov-type second harmonic generation microscopy. <i>Ferroelectrics</i> , <b>2021</b> , 576, 75-84	0.6	0
483	Micro-Raman domain imaging in calcium orthovanadate single crystals. <i>Ferroelectrics</i> , <b>2021</b> , 576, 85-93	0.6	3
482	Submicron periodical poling in Z-cut lithium niobate thin films. <i>Ferroelectrics</i> , <b>2021</b> , 576, 119-128	0.6	2
481	Modification of chemically and physically obtained Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles with l-Lys for cell labeling. <i>Russian Chemical Bulletin</i> , <b>2021</b> , 70, 1199-1208	1.7	0
480	Domain structure evolution during alternating current poling and its influence on the piezoelectric properties in [001]-cut rhombohedral PIN-PMN-PT single crystals. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 232901	0.6	2
479	Nonlinear Characterization of Waveguide Index Profile: Application to Soft-Proton-Exchange in LiNbO <sub>3</sub> . <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 4695-4699	4	0
478	Temperature-dependent Raman spectroscopy, domain morphology and photoluminescence studies in lead-free BCZT ceramic. <i>Ceramics International</i> , <b>2021</b> , 47, 2828-2838	5.1	5
477	Thermal stability of dielectric and energy storage performances of Ca-substituted BNTZ ferroelectric ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 6298-6309	5.1	8
476	Local electronic transport across probe/ionic conductor interface in scanning probe microscopy. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113147	3.1	3
475	Some data on the comparative and combined toxic activity of nanoparticles containing lead and cadmium with special attention to their vasotoxicity. <i>Nanotoxicology</i> , <b>2021</b> , 15, 205-222	5.3	2
474	Statics and dynamics of ferroelectric domains in molecular multiaxial ferroelectric (Me <sub>3</sub> NOH) <sub>2</sub> [KCo(CN) <sub>6</sub> ]. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10741-10748	7.1	3

473	Forward growth of ferroelectric domains with charged domain walls. Local switching on non-polar cuts. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 044103	2.5	7
472	Lead-free BaTiO <sub>3</sub> -based ceramics modified by Bi(Mg <sub>0.5</sub> Sn <sub>0.5</sub> )O <sub>3</sub> with enhanced energy-storage performance and charge/discharge properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3377-3390	2.1	3
471	Local Polarization Reversal by Ion Beam Irradiation in SBN Single Crystals Covered by Dielectric Layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2824-2831	3.2	0
470	Silica coating of Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles with PMIDA assistance to increase the surface area and enhance peptide immobilization efficiency. <i>Ceramics International</i> , <b>2021</b> , 47, 23078-23087	5.1	2
469	Submicron periodical poling by local switching in ion sliced lithium niobate thin films with a dielectric layer. <i>Ceramics International</i> , <b>2021</b> , 47, 32900-32900	5.1	2
468	Phase evolution and relaxor to ferroelectric phase transition boosting ultrahigh electrostrains in (1-x)(Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> -x(Bi <sub>1/2</sub> K <sub>1/2</sub> )TiO <sub>3</sub> solid solutions. <i>Journal of Materiomics</i> , <b>2021</b> ,	6.7	2
467	Morphotropic phase boundary in Sm-substituted BiFeO <sub>3</sub> ceramics: Local vs microscopic approaches. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 159994	5.7	3
466	Structure, dielectric, electrostrictive and electrocaloric properties of environmentally friendly Bi-substituted BCZT ferroelectric ceramics. <i>Ceramics International</i> , <b>2021</b> ,	5.1	1
465	Dimensionality increase of ferroelectric domain shape by pulse laser irradiation. <i>Acta Materialia</i> , <b>2021</b> , 219, 117270	8.4	3
464	Comparative and Combined Vasotoxicity of Nanoparticles Containing Lead and Cadmium. <i>Dose-Response</i> , <b>2021</b> , 19, 1559325820982163	2.3	2
463	General toxic and cardiovascular toxic impact of cadmium oxide nanoparticles. <i>Gigiiena I Sanitariia</i> , <b>2021</b> , 99, 1346-1352	0.4	0
462	MANIFESTATIONS OF SUBACUTE SYSTEMIC TOXICITY OF LEAD OXIDE NANOPARTICLES IN RATS AFTER AN INHALATION EXPOSURE. <i>Toxicological Review</i> , <b>2021</b> , 3-13	0.2	
461	Thermostimulated Changes in the Switching Field of Planar CoNi Microparticles Formed on a Surface of Single-Crystal Lithium Niobate. <i>Physics of the Solid State</i> , <b>2021</b> , 63, 1337-1342	0.8	
460	As-Grown Domain Structure in Calcium Orthovanadate Crystals. <i>Crystals</i> , <b>2021</b> , 11, 1508	2.3	2
459	Unusual domain growth during local switching in triglycine sulfate crystals. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 262902	3.4	0
458	Exploring Charged Defects in Ferroelectrics by the Switching Spectroscopy Piezoresponse Force Microscopy.. <i>Small Methods</i> , <b>2021</b> , e2101289	12.8	2
457	Domain shapes in bulk uniaxial ferroelectrics. <i>Ferroelectrics</i> , <b>2020</b> , 569, 251-265	0.6	5
456	Multisystemic damage to mitochondrial ultrastructure as an integral measure of the comparative in vivo cytotoxicity of metallic nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 918, 012119	0.4	1

455	The effect of water molecules on elastic and piezoelectric properties of diphenylalanine microtubes. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1474-1477	2.3	4
454	Surface Piezoelectricity and Pyroelectricity in Centrosymmetric Materials: A Case of Glycine. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
453	An overview of experiments with lead-containing nanoparticles performed by the Ekaterinburg nanotoxicological research team. <i>Nanotoxicology</i> , <b>2020</b> , 14, 788-806	5.3	3
452	Dense ferroelectric-ferroelastic domain structures in rhombohedral PMN-28PT single crystals. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 182901	3.4	4
451	Chemical Solution Deposition of BiFeO <sub>3</sub> Films with Layer-by-Layer Control of the Coverage and Composition. <i>Coatings</i> , <b>2020</b> , 10, 438	2.9	2
450	Local polarization reversal in 36°Y-cut congruent lithium niobate by focused electron beam: forward domain growth. <i>Ferroelectrics</i> , <b>2020</b> , 560, 21-26	0.6	
449	Domain structure evolution under multiple pulse heating of lithium niobate by infrared laser. <i>Ferroelectrics</i> , <b>2020</b> , 560, 79-85	0.6	1
448	The domain structure and local switching of LiNbO <sub>3</sub> thin films deposited on Si(001) by radio-frequency magnetron sputtering. <i>Ferroelectrics</i> , <b>2020</b> , 560, 86-94	0.6	1
447	Interferometric measurements of graphene-based membranes for micromechanical applications. <i>Ferroelectrics</i> , <b>2020</b> , 560, 95-101	0.6	
446	Calibration of the in-plane PFM response by the lateral force curves. <i>Ferroelectrics</i> , <b>2020</b> , 559, 15-21	0.6	6
445	Domain splitting in lithium niobate with surface dielectric layer. <i>Ferroelectrics</i> , <b>2020</b> , 559, 8-14	0.6	
444	Domain patterning of non-polar cut lithium niobate by focused ion beam. <i>Ferroelectrics</i> , <b>2020</b> , 559, 66-76	0.6	4
443	Polarization reversal in lithium niobate with inhomogeneous stoichiometry deviation. <i>Ferroelectrics</i> , <b>2020</b> , 559, 102-108	0.6	3
442	Piezoelectric Actuation of Graphene-Coated Polar Structures. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2142-2147	3.2	1
441	Study of the electric field-induced domain structure transformation in BaTiO <sub>3</sub> ceramics by high resolution methods. <i>Ferroelectrics</i> , <b>2020</b> , 559, 83-92	0.6	1
440	Self-assembled shape evolution of the domain wall and formation of nanodomain wall traces induced by multiple IR laser pulse irradiation in lithium niobate. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 094103	2.5	5
439	Some Peculiarities in the Dose Dependence of Separate and Combined In Vitro Cardiotoxicity Effects Induced by CdS and PbS Nanoparticles With Special Attention to Hormesis Manifestations. <i>Dose-Response</i> , <b>2020</b> , 18, 1559325820914180	2.3	8
438	Different domain switching kinetics in tetragonal PMN-PT single crystal studied by in situ observation and current analysis. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 2922-2928	6	2

437	Analysis of switching current data in KTA single crystals. <i>Ferroelectrics</i> , <b>2020</b> , 559, 1-7	0.6	0
436	Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO <sub>3</sub> thin films. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100740	6.6	4
435	Manifestation of Systemic Toxicity in Rats after a Short-Time Inhalation of Lead Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	13
434	Silicon-hydroxyapatite-glycerohydrogel as a promising biomaterial for dental applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 189, 110851	6	4
433	L-Lysine-modified FeO nanoparticles for magnetic cell labeling. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 190, 110879	6	14
432	Perturbations of a dielectric tensor induced by domain walls of periodic domain structures in ferroelectric crystals: contribution to the Bragg diffraction of light waves. <i>Laser Physics</i> , <b>2020</b> , 30, 025401 <sup>1,2</sup>		
431	Precise control of the size and gap between gold nanocubes by surface-based synthesis for high SERS performance. <i>Soft Matter</i> , <b>2020</b> , 16, 1857-1865	3.6	4
430	Observation of the Photoinduced Conductivity in a Regular Domain Structure with Tilted Walls in MgO:LiNbO <sub>3</sub> at a Wavelength of 632.8 nm at Bragg Diffraction. <i>JETP Letters</i> , <b>2020</b> , 112, 602-606	1.2	1
429	The Experimental Study of Cardiotoxic Effects of Lead Oxide Nanoparticles by Their Various Routes of Exposure. <i>Public Health and Life Environment</i> , <b>2020</b> , 67-72	0.3	1
428	Domain Switching by Electron Beam Irradiation in SBN <sub>61</sub> :Ce Single Crystals Covered by Dielectric Layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 191-196	3.2	3
427	Achieve ultrahigh energy storage performance in BaTiO <sub>3</sub> Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. <i>Nano Energy</i> , <b>2020</b> , 67, 104264	17.1	138
426	New insights on Raman spectrum of K-bearing tourmaline. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 1415-1424	2.3	3
425	A combined Raman spectroscopy, cathodoluminescence, and electron backscatter diffraction study of kyanite porphyroblasts from diamondiferous and diamond-free metamorphic rocks (Kokchetav massif). <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 1425-1437	2.3	3
424	Supporting data and methods for the characterization of iron oxide nanoparticles conjugated with pH-(low)-insertion peptide, testing their cytotoxicity and analyses of biodistribution in SCID mice bearing MDA-MB231 tumor. <i>Data in Brief</i> , <b>2020</b> , 29, 105062	1.2	6
423	Fracture strength and fatigue endurance in Gd-doped ceria thermal actuators. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 304, 111885	3.9	1
422	In Situ Imaging of Domain Structure Evolution in LaBGeO <sub>5</sub> Single Crystals. <i>Crystals</i> , <b>2020</b> , 10, 583	2.3	5
421	Barkhausen pulses caused by domain merging in congruent lithium niobate. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 022903	3.4	4
420	An Investigative Study on the Effect of Pre-Coating Polymer Solutions on the Fabrication of Low Cost Anti-Adhesive Release Paper. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1

419	Magnetoactive Compound Based on Humic Acid and Magnetite as a Sorbent for Heavy Metals. <i>Russian Journal of Applied Chemistry</i> , <b>2020</b> , 93, 1366-1371	0.8	
418	Local electromechanical response in doped ceria: Rigorous analysis of the phase and amplitude. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1478-1485	2.3	3
417	Micro-Raman study of crichtonite group minerals enclosed into mantle garnet. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 1493-1512	2.3	5
416	Photoresponsive Organic-Inorganic Hybrid Ferroelectric Designed at the Molecular Level. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16990-16998	16.4	40
415	Zircon from diamondiferous kyanite gneisses of the Kokchetav massif: Revealing growth stages using an integrated cathodoluminescence, Raman spectroscopy and electron microprobe approach. <i>Mineralogical Magazine</i> , <b>2020</b> , 84, 949-958	1.7	1
414	Dumortierite and tourmaline from the Barchi-Kol diamond-bearing kyanite gneisses (Kokchetav massif): A Raman spectroscopic study and petrological implications. <i>Journal of Raman Spectroscopy</i> , <b>2020</b> , 51, 1839-1848	2.3	
413	Domain structure formation by local switching in the ion sliced lithium niobate thin films. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 152904	3.4	6
412	Diffraction of Light on a Regular Domain Structure with Inclined Walls in MgO:LiNbO <sub>3</sub> . <i>JETP Letters</i> , <b>2019</b> , 110, 178-182	1.2	2
411	Influence of lanthanum substitution on microstructure and impedance behavior of barium strontium titanate glass-ceramics. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 074101	2.5	2
410	Direct observation of domain kinetics in rhombohedral PMN-28PT single crystals during polarization reversal. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 102903	3.4	6
409	Domain structure formation by electron beam irradiation in lithium niobate crystals at elevated temperatures. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 092903	3.4	2
408	Bulk In <sub>2</sub> O <sub>3</sub> crystals grown by chemical vapour transport: a combination of XPS and DFT studies. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 18753-18758	2.1	5
407	Tailoring Ni and Sr <sub>2</sub> Mg <sub>0.25</sub> Ni <sub>0.75</sub> MoO <sub>6</sub> Cermet Compositions for Designing the Fuel Electrodes of Solid Oxide Electrochemical Cells. <i>Energies</i> , <b>2019</b> , 12, 2394	3.1	8
406	Phase distribution and corresponding piezoelectric responses in a morphotropic phase boundary Pb(Mg Nb) <sub>2</sub> O <sub>3</sub> -PbTiO <sub>3</sub> single crystal revealed by confocal Raman spectroscopy and piezo-response force microscopy. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4131-4138	6	1
405	Controlled Growth of Stable Glycine via Inkjet Printing. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 3869-3875	3.5	4
404	Superfast domain wall motion in lithium niobate single crystals. Analogy with crystal growth. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192902	3.4	10
403	Correlative Confocal Raman and Scanning Probe Microscopy in the Ionically Active Particles of LiMnO Cathodes. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
402	Toxic Effects of Low-Level Long-Term Inhalation Exposures of Rats to Nickel Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	19

401	Local atomic configurations, energy structure, and optical properties of implantation defects in Gd-doped silica glass: An XPS, PL, and DFT study. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 796, 77-85	5.7	7
400	Domain Diversity and Polarization Switching in Amino Acid Glycine. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
399	Tilt control of the charged domain walls in lithium niobate. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 092901	3.4	28
398	Influence of hot water treatment during laser ablation in liquid on the shape of PbO nanoparticles. <i>Applied Surface Science</i> , <b>2019</b> , 483, 835-839	6.7	6
397	Electro-chemomechanical Contribution to Mechanical Actuation in Gd-Doped Ceria Membranes. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801592	4.6	15
396	More data on in vitro assessment of comparative and combined toxicity of metal oxide nanoparticles. <i>Food and Chemical Toxicology</i> , <b>2019</b> , 133, 110753	4.7	11
395	The bulk screening field in nonstoichiometric lithium tantalate single crystals. <i>Ferroelectrics</i> , <b>2019</b> , 541, 30-38	0.6	1
394	Formation of the quasi-regular stripe nanodomain structures in lithium tantalate by scanning laser heating. <i>Ferroelectrics</i> , <b>2019</b> , 541, 61-65	0.6	1
393	Temperature and electric field treatment of the rhombohedral PMN-PT single crystals. <i>Ferroelectrics</i> , <b>2019</b> , 541, 66-73	0.6	1
392	Effect of ferroelectric domains on electric properties of single layer graphene. <i>Ferroelectrics</i> , <b>2019</b> , 542, 93-101	0.6	1
391	Electrically controllable diffraction of light on periodic domain structures in ferroelectric crystals. <i>Ferroelectrics</i> , <b>2019</b> , 542, 58-63	0.6	3
390	E-beam domain patterning in thin plates of MgO-doped LiNbO <sub>3</sub> . <i>Ferroelectrics</i> , <b>2019</b> , 542, 85-92	0.6	1
389	Indentation induced local polarization reversal in La doped BiFeO <sub>3</sub> ceramics. <i>Ferroelectrics</i> , <b>2019</b> , 541, 1-9	0.6	3
388	Forward domain growth in 36°Y-cut congruent lithium niobate. <i>Ferroelectrics</i> , <b>2019</b> , 541, 115-122	0.6	
387	Linear optical properties and second-harmonic generation of (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ∕PbTiO <sub>3</sub> single crystals. <i>Ferroelectrics</i> , <b>2019</b> , 542, 112-119	0.6	6
386	Influence of composition gradients on heat induced initial domain structure in lithium tantalate. <i>Ferroelectrics</i> , <b>2019</b> , 542, 13-20	0.6	6
385	Self-organized domain formation by moving the biased SPM tip. <i>Ferroelectrics</i> , <b>2019</b> , 542, 70-76	0.6	6
384	Raman study of pyroelectric and injected charge induced fields in PLZT 8/65/35 ceramics. <i>Ferroelectrics</i> , <b>2019</b> , 542, 102-111	0.6	



383	Annealing stability of the domain structure in periodically poled MgO doped lithium niobate single crystals. <i>Ferroelectrics</i> , <b>2019</b> , 542, 45-51	0.6	1
382	Micro-Raman Imaging of Ferroelectric Domain Structures in the Bulk of PMN-PT Single Crystals. <i>Crystals</i> , <b>2019</b> , 9, 65	2.3	6
381	Synthesis of nanocomposite with a core-shell structure based on Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles and iron glycerolate. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 1178-1182	1.7	6
380	Analogy between growth of crystals and ferroelectric domains. Application of Wulff construction. <i>Journal of Crystal Growth</i> , <b>2019</b> , 526, 125236	1.6	5
379	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 6414-6421	3.5	24
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374	Tip-induced domain growth in the non-polar cuts of SBN:Ce single crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012049	0.4	1
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372	Experimental assessments of metallic and metal oxide nanoparticles toxicity. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012037	0.4	0
371	Charged domain walls in lithium tantalate with compositional gradients produced by partial VTE process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012015	0.4	4
370	Organism responses to a long-term inhalation of silica-containing submicron particles of an industrial aerosol. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012054	0.4	
369	Microstructure of barium strontium titanate based glass-ceramics doped by Ce and La. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012056	0.4	
368	Abnormal kinetics of domain structure in KTA single crystals. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 212901	3.4	4
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366	Creation of nanoparticles and surface nanostructures of alumina by hot water treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 699, 012051	0.4	0

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361	Immobilization of PMIDA on Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles surface: Mechanism of bonding. <i>Applied Surface Science</i> , <b>2018</b> , 440, 1196-1203	6.7	29
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359	Domain shape instabilities and dendrite domain growth in uniaxial ferroelectrics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2018</b> , 376,	3	11
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356	Investigation of domain structure evolution during zero-field temperature treatment in 0.67PMN-0.33PT single crystals. <i>Ferroelectrics</i> , <b>2018</b> , 525, 114-122	0.6	1
355	Domain wall shape instability in congruent lithium tantalate during switching by ion beam. <i>Ferroelectrics</i> , <b>2018</b> , 525, 28-36	0.6	1
354	Local electromechanical characterization of Pr doped BiFeO <sub>3</sub> ceramics. <i>Ferroelectrics</i> , <b>2018</b> , 525, 64-75	0.6	2
353	Investigation of physical properties of diphenylalanine peptide nanotubes having different chiralities and embedded water molecules. <i>Ferroelectrics</i> , <b>2018</b> , 525, 168-177	0.6	10
352	Analysis of the switching current peaks in KTP during superfast domain wall motion. <i>Ferroelectrics</i> , <b>2018</b> , 525, 11-17	0.6	5
351	Piezoelectric properties and Young's moduli of diphenylalanine microtubes-oxide nanoparticles composites. <i>Ferroelectrics</i> , <b>2018</b> , 525, 146-155	0.6	3
350	As-grown domain structure in lithium tantalate with spatially nonuniform composition. <i>Ferroelectrics</i> , <b>2018</b> , 525, 47-53	0.6	14
349	Domain structure evolution in relaxor PLZT 8/65/35 ceramics after chemical etching and electron beam irradiation. <i>Ferroelectrics</i> , <b>2018</b> , 525, 83-92	0.6	4
348	Polarization reversal in lithium niobate using electrodes of dendrite shape created by drying drops of protein-NaCl solution. <i>Ferroelectrics</i> , <b>2018</b> , 525, 161-167	0.6	

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345	Debye-like relaxation behavior and electric field induced dipole re-orientation of the 0.6BaTiO <sub>3</sub> -0.4Bi(Mg <sup>1/2</sup> Ti <sup>1/2</sup> )O <sub>3</sub> ceramic. <i>Ceramics International</i> , <b>2018</b> , 44, 922-930	5.1	8
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336	Quantitative characterization of the ionic mobility and concentration in Li-battery cathodes via low frequency electrochemical strain microscopy. <i>Nanoscale</i> , <b>2018</b> , 10, 2503-2511	7.7	22
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333	Influence of the domain structure on piezoelectric and dielectric properties of relaxor SBN single crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 443, 012031	0.4	4
332	Imprint behavior and polarization relaxation of PLZT thin films. <i>Ferroelectrics</i> , <b>2018</b> , 533, 10-18	0.6	2
331	Domain kinetics during polarization reversal in 36°Y-cut congruent lithium niobate. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 443, 012024	0.4	3
330	Main results obtained in a series of animal experiments for the assessment of the organism's responses to metallic nanoparticles exposure. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 443, 012025	0.4	1

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321	Switching current shape analysis in LBG0 single crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 443, 012001	0.4	2
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308	Growth of isolated domains induced by focused ion beam irradiation in congruent lithium niobate. <i>Ferroelectrics</i> , <b>2017</b> , 508, 16-25	0.6	5
307	Investigation of polarization reversal and analysis of switching current data in KTP single crystals. <i>Ferroelectrics</i> , <b>2017</b> , 508, 1-8	0.6	4
306	Electric field distribution during polarization reversal in lithium niobate with inhomogeneous bulk conductivity. <i>Ferroelectrics</i> , <b>2017</b> , 508, 26-30	0.6	
305	Polarization reversal and domain kinetics in PMN-30PT single crystals. <i>Ferroelectrics</i> , <b>2017</b> , 508, 31-39	0.6	1
304	Linear diffraction of light waves in periodically poled lithium niobate crystal. <i>Ferroelectrics</i> , <b>2017</b> , 508, 49-57	0.6	4
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278	Relaxation behavior and electrical inhomogeneity in 0.9BaTiO <sub>3</sub> -0.1Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> ceramic. <i>Ceramics International</i> , <b>2017</b> , 43, 12828-12834	5.1	11
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244	Simulation of spatial distribution of electric field after electron beam irradiation of MgO-doped LiNbO3 covered by resist layer. <i>Ferroelectrics</i> , <b>2016</b> , 496, 70-78	0.6	11
243	Piezoelectric and ferroelectric properties of organic single crystals and films derived from chiral 2-methoxy and 2-amino acids. <i>Ferroelectrics</i> , <b>2016</b> , 496, 1-9	0.6	12
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241	Glycine nanostructures and domains in beta-glycine: computational modeling and PFM observations. <i>Ferroelectrics</i> , <b>2016</b> , 496, 28-45	0.6	6
240	Formation of single domain state and spontaneous backswitching in SBN single crystal. <i>Ferroelectrics</i> , <b>2016</b> , 496, 149-156	0.6	11



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237	Formation of the nanodomain structures after pulse laser heating in lithium tantalate: experiment and computer simulation. <i>Ferroelectrics</i> , <b>2016</b> , 496, 120-127	0.6	1
236	Investigation of domain kinetics in congruent lithium niobate modified by proton exchange. <i>Ferroelectrics</i> , <b>2016</b> , 496, 110-119	0.6	2
235	Dielectric/ferroelectric and phase transition properties of PLZT ceramics. <i>Ferroelectrics</i> , <b>2016</b> , 496, 240-248		2
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233	Collinear and isotropic diffraction of laser beam and incoherent light on periodically poled domain structures in lithium niobate. <i>Ferroelectrics</i> , <b>2016</b> , 496, 134-142	0.6	5
232	Domain kinetics in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> with modified bulk conductivity. <i>Ferroelectrics</i> , <b>2016</b> , 496, 79-84	0.6	4
231	The electronic conductivity in single crystals of lithium niobate and lithium tantalate family. <i>Ferroelectrics</i> , <b>2016</b> , 496, 102-109	0.6	11
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218	Electron Beam Domain Patterning of MgO-Doped Lithium Niobate Crystals Covered by Resist Layer. <i>Ferroelectrics</i> , <b>2015</b> , 476, 117-126	0.6	12
217	Piezoelectric Response from Porous Ferroelectric Ceramics at Low Drive Voltage. <i>Ferroelectrics</i> , <b>2015</b> , 475, 96-103	0.6	1
216	Formation of Broad Domain Boundary in Congruent Lithium Niobate Modified by Proton Exchange. <i>Ferroelectrics</i> , <b>2015</b> , 476, 146-155	0.6	5
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214	Coffee Ring Effect During Drying of Colloid Drop: Experiment and Computer Simulation. <i>Ferroelectrics</i> , <b>2015</b> , 476, 47-53	0.6	7
213	Formation of Self-Assembled Domain Structures in MgOSLT. <i>Ferroelectrics</i> , <b>2015</b> , 476, 76-83	0.6	2
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109	Nano- and micro-domain engineering in normal and relaxor ferroelectrics <b>2008</b> , 622-669		61
108	Local Study of Polarization Reversal Kinetics in Ferroelectric Crystals Using Scanning Probe Microscopy. <i>Ferroelectrics</i> , <b>2008</b> , 374, 26-32	0.6	13
107	Study of Domain Structure Kinetics in SBN Crystals Using Optical Methods. <i>Ferroelectrics</i> , <b>2008</b> , 374, 33-40	0.6	11
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103	Characterization of PPLN-microstructures by means of Raman spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 65-67	2.6	45
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