

V Ya Shur

List of Publications by Year in descending order

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542
papers

9,657
citations

44069

48
h-index

85541

71
g-index

566
all docs

566
docs citations

566
times ranked

6038
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Tunable order in colloids of hard magnetic hexaferrite nanoplatelets. Nano Research, 2022, 15, 898-906. | 10.4 | 11 |
| 2 | Phase evolution and relaxor to ferroelectric phase transition boosting ultrahigh electrostrains in $(1-x)(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3-x(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ solid solutions. Journal of Materiomics, 2022, 8, 335-346. | 5.7 | 39 |
| 3 | Ultrahigh electrostrictive effect in potassium sodium niobate-based lead-free ceramics. Journal of the European Ceramic Society, 2022, 42, 944-953. | 5.7 | 37 |
| 4 | Enhanced energy storage performance of eco-friendly BNT-based relaxor ferroelectric ceramics via polarization mismatch-reestablishment and viscous polymer process. Ceramics International, 2022, 48, 6512-6519. | 4.8 | 28 |
| 5 | Achieving ultrahigh energy storage performance over a broad temperature range in $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based eco-friendly relaxor ferroelectric ceramics via multiple engineering processes. Journal of Alloys and Compounds, 2022, 896, 163139. | 5.5 | 33 |
| 6 | Enhanced antiferroelectric-like relaxor ferroelectric characteristic boosting energy storage performance of $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based ceramics via defect engineering. Journal of Materiomics, 2022, 8, 527-536. | 5.7 | 47 |
| 7 | Enhancement of energy storage performance in lead-free barium titanate-based relaxor ferroelectrics through a synergistic two-step strategy design. Chemical Engineering Journal, 2022, 434, 134678. | 12.7 | 57 |
| 8 | Enhanced energy-storage properties in lead-free $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based dielectric ceramics via glass additive and viscous polymer rolling process. Ceramics International, 2022, 48, 15711-15720. | 4.8 | 4 |
| 9 | Exploring Charged Defects in Ferroelectrics by the Switching Spectroscopy Piezoresponse Force Microscopy. Small Methods, 2022, 6, 2101289. | 8.6 | 6 |
| 10 | Relaxor antiferroelectric-like characteristic boosting enhanced energy storage performance in eco-friendly $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ -based ceramics. Journal of the European Ceramic Society, 2022, 42, 4528-4538. | 5.7 | 28 |
| 11 | Evolution of Nanodomains and Formation of Self-Organized Structures during Local Switching in X-Cut LNOI. Crystals, 2022, 12, 659. | 2.2 | 0 |
| 12 | Tip-induced domain growth on the non-polar cut of lithium niobate with various stoichiometry deviations. Journal of Applied Physics, 2022, 131, . | 2.5 | 1 |
| 13 | Effective strategy to improve energy storage properties in lead-free $(\text{Ba}_{0.8}\text{Sr}_{0.2})\text{TiO}_3\text{-Bi}(\text{Mg}_{0.5}\text{Zr}_{0.5})\text{O}_3$ relaxor ferroelectric ceramics. Chemical Engineering Journal, 2022, 446, 137389. | 12.7 | 40 |
| 14 | Morphotropic phase boundary in the BFO-BTO solid solutions: role of synthesis conditions. Ferroelectrics, 2022, 590, 91-98. | 0.6 | 1 |
| 15 | Microstructural features and complex electromechanical parameters of lead-free ferroelectric ceramics. Ferroelectrics, 2022, 591, 136-142. | 0.6 | 0 |
| 16 | Domain switching in KTP crystals induced by electron beam irradiation. Ferroelectrics, 2022, 592, 52-57. | 0.6 | 0 |
| 17 | Discrete switching in the ion sliced lithium niobate thin films with thick dielectric layer. Ferroelectrics, 2022, 592, 90-97. | 0.6 | 0 |
| 18 | Formation of broad domain boundary during dot ion beam irradiation in SBN:Ni single crystals. Ferroelectrics, 2022, 592, 72-82. | 0.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Anisotropic growth of domain rays in lithium niobate crystal induced by IR laser scanning. <i>Ferroelectrics</i> , 2022, 592, 45-51. | 0.6 | 1 |
| 20 | Domain structure evolution in calcium orthovanadate crystal induced by IR laser irradiation. <i>Ferroelectrics</i> , 2022, 592, 83-89. | 0.6 | 0 |
| 21 | Shape of charged domain walls in bidomain lithium tantalate plates with composition gradients. <i>Ferroelectrics</i> , 2022, 592, 26-36. | 0.6 | 1 |
| 22 | Domain growth in LiNbO_3 with surface layer modified by soft proton exchange. <i>Ferroelectrics</i> , 2022, 592, 64-71. | 0.6 | 1 |
| 23 | Analysis of Barkhausen pulse shapes in lithium niobate single crystals. <i>Ferroelectrics</i> , 2022, 592, 1-11. | 0.6 | 1 |
| 24 | Decay of domains created by local switching on non-polar cut of MgO doped LiNbO_3 single crystals. <i>Ferroelectrics</i> , 2022, 592, 12-18. | 0.6 | 0 |
| 25 | Reconstruction of the ferroelectric domain structure morphology in BaTiO_3 single crystals using Åerenkov-type second harmonic generation microscopy. <i>Ferroelectrics</i> , 2022, 592, 19-25. | 0.6 | 0 |
| 26 | Effect of electric field intensity on domain kinetics of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \approx 0.38\text{PbTiO}_3$ single crystal. <i>Ceramics International</i> , 2022, , . | 4.8 | 0 |
| 27 | Temperature-dependent Raman spectroscopy, domain morphology and photoluminescence studies in lead-free BCZT ceramic. <i>Ceramics International</i> , 2021, 47, 2828-2838. | 4.8 | 23 |
| 28 | Thermal stability of dielectric and energy storage performances of Ca-substituted BNTZ ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 6298-6309. | 4.8 | 33 |
| 29 | Local electronic transport across probe/ionic conductor interface in scanning probe microscopy. <i>Ultramicroscopy</i> , 2021, 220, 113147. | 1.9 | 6 |
| 30 | Some data on the comparative and combined toxic activity of nanoparticles containing lead and cadmium with special attention to their vasotoxicity. <i>Nanotoxicology</i> , 2021, 15, 205-222. | 3.0 | 6 |
| 31 | Statics and dynamics of ferroelectric domains in molecular multiaxial ferroelectric $(\text{Me}_{3}\text{NOH})_{2}[\text{KCo}(\text{CN})_{6}]$. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10741-10748. | 5.5 | 15 |
| 32 | Forward growth of ferroelectric domains with charged domain walls. Local switching on non-polar cuts. <i>Journal of Applied Physics</i> , 2021, 129, . | 2.5 | 17 |
| 33 | Lead-free BaTiO_3 -based ceramics modified by $\text{Bi}(\text{Mg}_{0.5}\text{Sn}_{0.5})\text{O}_3$ with enhanced energy-storage performance and charge/discharge properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3377-3390. | 2.2 | 10 |
| 34 | Cardioinotropic Effects in Subchronic Intoxication of Rats with Lead and/or Cadmium Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3466. | 4.1 | 8 |
| 35 | In-plane polarization contribution to the vertical piezoresponse force microscopy signal mediated by the cantilever Åebuckling. <i>Applied Surface Science</i> , 2021, 543, 148808. | 6.1 | 12 |
| 36 | ÅYÅ¼Å»Å²ÅµÅ°Å²Å½Å°ÅŃfÅ²Åµ. ÅžŃ, Å»Å°Å±Å¼ÅŃÅ°ÅŃ, Å¼ÅŃÅ°ÅŃ, ÅŃÅµÅ³Å½ÅµŃ, Å¼ÅŃÅ°ÅŃÅµÅ°ÅŃ, ÅŃÅ°ÅŃ, Å¼Å²Å°ÅŃÅ±ÅµÅ½ÅŃ | | |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Domain merging in LaBGeO5 single crystals. <i>Ferroelectrics</i> , 2021, 575, 151-157. | 0.6 | 0 |
| 38 | Magnetoelastic effect in CoNi particles caused by thermal resizing of a lithium niobate crystal substrate. <i>Ferroelectrics</i> , 2021, 574, 65-71. | 0.6 | 0 |
| 39 | Transformation of initial domain structure by ac electric field in lithium tantalate crystals with composition gradient. <i>Ferroelectrics</i> , 2021, 574, 136-143. | 0.6 | 1 |
| 40 | Formation of submicron stripe domain ensembles during polarization reversal in Rb doped KTP crystal covered by dielectric layer. <i>Ferroelectrics</i> , 2021, 574, 101-108. | 0.6 | 1 |
| 41 | The input of Barkhausen pulses to the switching current in congruent lithium niobate. <i>Ferroelectrics</i> , 2021, 574, 156-163. | 0.6 | 1 |
| 42 | Modeling and physical properties of diphenylalanine peptide nanotubes containing water molecules. <i>Ferroelectrics</i> , 2021, 574, 78-91. | 0.6 | 11 |
| 43 | Local polarization reversal in barium titanate single crystals and ceramics. <i>Ferroelectrics</i> , 2021, 574, 1-7. | 0.6 | 0 |
| 44 | 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> , 2021, 574, 16-22. | 0.6 | 6 |
| 45 | Forward domain growth on the non-polar cut of lithium niobate crystal during irradiation by focused ion beam. <i>Ferroelectrics</i> , 2021, 574, 92-100. | 0.6 | 2 |
| 46 | Design of SiO2/aminopropylsilane-modified magnetic Fe3O4 nanoparticles for doxorubicin immobilization. <i>Russian Chemical Bulletin</i> , 2021, 70, 987-994. | 1.5 | 6 |
| 47 | Second harmonic generation in periodically poled MgO:LN crystal with 2 Åμm period created by e-beam irradiation. <i>Ferroelectrics</i> , 2021, 576, 50-54. | 0.6 | 1 |
| 48 | Evolution of the domain structure during polarization reversal in relaxor SBN single crystals studied by ÅEerenkov-type second harmonic generation microscopy. <i>Ferroelectrics</i> , 2021, 576, 75-84. | 0.6 | 1 |
| 49 | Micro-Raman domain imaging in calcium orthovanadate single crystals. <i>Ferroelectrics</i> , 2021, 576, 85-93. | 0.6 | 6 |
| 50 | ÐÐ'Ð~ÐšÐ¡-Ñ, ÐμÑ... Ð½Ð¾Ð»Ð¾Ð¾Ð, æ« Ð¾Ð¾Ð½Ñ†ÐμÐ¡Ñ†Ð,Ñ•Ñ€ÐμÑ,,Ð¾Ñ€Ð¼Ð°Ñ†Ð,Ð, Ð,Ð»Ð,Ñ,,ÑfÐ¼ÐÐ°Ð¼Ð½Ñ, Ð | | |
| 51 | Submicron periodical poling in Z-cut lithium niobate thin films. <i>Ferroelectrics</i> , 2021, 576, 119-128. | 0.6 | 8 |
| 52 | Modification of chemically and physically obtained Fe3O4 magnetic nanoparticles with l-Lys for cell labeling. <i>Russian Chemical Bulletin</i> , 2021, 70, 1199-1208. | 1.5 | 3 |
| 53 | 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> , 2021, 118, . | 3.3 | 13 |
| 54 | Nonlinear Characterization of Waveguide Index Profile: Application to Soft-Proton-Exchange in LiNbO3. <i>Journal of Lightwave Technology</i> , 2021, 39, 4695-4699. | 4.6 | 1 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Advanced Large-Scale Nanofabrication Route for Ultrasensitive SERS Platforms Based on Precisely Shaped Gold Nanostructures. <i>Nanomaterials</i> , 2021, 11, 1806. | 4.1 | 3 |
| 56 | Local Piezoelectric Properties of Doped Biomolecular Crystals. <i>Materials</i> , 2021, 14, 4922. | 2.9 | 4 |
| 57 | 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> , 2021, 68, 2824-2831. | 3.0 | 2 |
| 58 | Silica coating of Fe ₃ O ₄ magnetic nanoparticles with PMIDA assistance to increase the surface area and enhance peptide immobilization efficiency. <i>Ceramics International</i> , 2021, 47, 23078-23087. | 4.8 | 13 |
| 59 | Submicron periodical poling by local switching in ion sliced lithium niobate thin films with a dielectric layer. <i>Ceramics International</i> , 2021, 47, 32900-32904. | 4.8 | 6 |
| 60 | Morphotropic phase boundary in Sm-substituted BiFeO ₃ ceramics: Local vs microscopic approaches. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159994. | 5.5 | 10 |
| 61 | Structure, dielectric, electrostrictive and electrocaloric properties of environmentally friendly Bi-substituted BCZT ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 34676-34686. | 4.8 | 13 |
| 62 | Dimensionality increase of ferroelectric domain shape by pulse laser irradiation. <i>Acta Materialia</i> , 2021, 219, 117270. | 7.9 | 13 |
| 63 | Comparative and Combined In Vitro Vasotoxicity of Nanoparticles Containing Lead and Cadmium. <i>Dose-Response</i> , 2021, 19, 155932582098216. | 1.6 | 2 |
| 64 | General toxic and cardiovascular toxic impact of cadmium oxide nanoparticles. <i>Gigiena I Sanitariia</i> , 2021, 99, 1346-1352. | 0.5 | 1 |
| 65 | MANIFESTATIONS OF SUBACUTE SYSTEMIC TOXICITY OF LEAD OXIDE NANOPARTICLES IN RATS AFTER AN INHALATION EXPOSURE. <i>Toxicological Review</i> , 2021, , 3-13. | 0.2 | 1 |
| 66 | Influence of Humidity on Local Polarization Reversal in a Rb:KTP Single Crystal. <i>ACS Applied Electronic Materials</i> , 2021, 3, 260-266. | 4.3 | 6 |
| 67 | Tunable injection-seeded fan-out-PPLN optical parametric oscillator for high-sensitivity gas detection. <i>Laser Physics Letters</i> , 2021, 18, 116201. | 1.4 | 5 |
| 68 | Photoinduced conductivity during sub-bandgap illumination in periodically poled MgO:LiNbO ₃ with charged domain walls. <i>Optical Materials</i> , 2021, 122, 111813. | 3.6 | 0 |
| 69 | New Data on Variesly Directed Dose-Response Relationships and the Combined Action Types for Different Outcomes of <i>in Vitro</i> Nanoparticle Cytotoxicity. <i>Dose-Response</i> , 2021, 19, 155932582110524. | 1.6 | 5 |
| 70 | 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> , 2021, 63, 1337-1342. | 0.6 | 0 |
| 71 | As-Grown Domain Structure in Calcium Orthovanadate Crystals. <i>Crystals</i> , 2021, 11, 1508. | 2.2 | 3 |
| 72 | Unusual domain growth during local switching in triglycine sulfate crystals. <i>Applied Physics Letters</i> , 2021, 119, 262902. | 3.3 | 2 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Dumortierite and tourmaline from the Barchiâ€Kok diamondâ€bearing kyanite gneisses (Kokchetav massif): A Raman spectroscopic study and petrological implications. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1839-1848. | 2.5 | 2 |
| 74 | Domain Switching by Electron Beam Irradiation in SBN61:Ce Single Crystals Covered by Dielectric Layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 191-196. | 3.0 | 6 |
| 75 | Achieve ultrahigh energy storage performance in BaTiO3â€Bi(Mg1/2Ti1/2)O3 relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. <i>Nano Energy</i> , 2020, 67, 104264. | 16.0 | 320 |
| 76 | New insights on Raman spectrum of Kâ€bearing tourmaline. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1415-1424. | 2.5 | 6 |
| 77 | A combined Raman spectroscopy, cathodoluminescence, and electron backscatter diffraction study of kyanite porphyroblasts from diamondiferous and diamondâ€free metamorphic rocks (Kokchetav massif). <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1425-1437. | 2.5 | 5 |
| 78 | 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> , 2020, 29, 105062. | 1.0 | 9 |
| 79 | Fracture strength and fatigue endurance in Gd-doped ceria thermal actuators. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111885. | 4.1 | 1 |
| 80 | In Situ Imaging of Domain Structure Evolution in LaBGeO5 Single Crystals. <i>Crystals</i> , 2020, 10, 583. | 2.2 | 5 |
| 81 | Barkhausen pulses caused by domain merging in congruent lithium niobate. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 6 |
| 82 | An Investigative Study on the Effect of Pre-Coating Polymer Solutions on the Fabrication of Low Cost Anti-Adhesive Release Paper. <i>Nanomaterials</i> , 2020, 10, 1436. | 4.1 | 4 |
| 83 | Magnetoactive Compound Based on Humic Acid and Magnetite as a Sorbent for Heavy Metals. <i>Russian Journal of Applied Chemistry</i> , 2020, 93, 1366-1371. | 0.5 | 1 |
| 84 | Local electromechanical response in doped ceria: Rigorous analysis of the phase and amplitude. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1478-1485. | 2.9 | 6 |
| 85 | Microâ€Raman study of crichtonite group minerals enclosed into mantle garnet. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1493-1512. | 2.5 | 7 |
| 86 | Photoresponsive Organicâ€Inorganic Hybrid Ferroelectric Designed at the Molecular Level. <i>Journal of the American Chemical Society</i> , 2020, 142, 16990-16998. | 13.7 | 92 |
| 87 | Influence of growth temperature of KTiOAsO4 single crystals on their physicochemical parameters and formation of domain structures. <i>Quantum Electronics</i> , 2020, 50, 788-792. | 1.0 | 1 |
| 88 | 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> , 2020, 84, 949-958. | 1.4 | 2 |
| 89 | Domain shapes in bulk uniaxial ferroelectrics. <i>Ferroelectrics</i> , 2020, 569, 251-265. | 0.6 | 7 |
| 90 | Synthesis and characterization of Fe doped BCZT piezoceramic. <i>AIP Conference Proceedings</i> , 2020, , . | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Multisystemic damage to mitochondrial ultrastructure as an integral measure of the comparative in vivo cytotoxicity of metallic nanoparticles. IOP Conference Series: Materials Science and Engineering, 2020, 918, 012119. | 0.6 | 1 |
| 92 | The effect of water molecules on elastic and piezoelectric properties of diphenylalanine microtubes. IEEE Transactions on Dielectrics and Electrical Insulation, 2020, 27, 1474-1477. | 2.9 | 4 |
| 93 | Surface Piezoelectricity and Pyroelectricity in Centrosymmetric Materials: A Case of $\hat{1}\pm$ -Glycine. Materials, 2020, 13, 4663. | 2.9 | 13 |
| 94 | An overview of experiments with lead-containing nanoparticles performed by the Ekaterinburg nanotoxicological research team. Nanotoxicology, 2020, 14, 788-806. | 3.0 | 3 |
| 95 | Dense ferroelectric-ferroelastic domain structures in rhombohedral PMN-28PT single crystals. Applied Physics Letters, 2020, 116, . | 3.3 | 5 |
| 96 | Chemical Solution Deposition of BiFeO ₃ Films with Layer-by-Layer Control of the Coverage and Composition. Coatings, 2020, 10, 438. | 2.6 | 6 |
| 97 | Local polarization reversal in 36° Y-cut congruent lithium niobate by focused electron beam: forward domain growth. Ferroelectrics, 2020, 560, 21-26. | 0.6 | 0 |
| 98 | Domain structure evolution under multiple pulse heating of lithium niobate by infrared laser. Ferroelectrics, 2020, 560, 79-85. | 0.6 | 2 |
| 99 | The domain structure and local switching of LiNbO ₃ thin films deposited on Si(001) by radio-frequency magnetron sputtering. Ferroelectrics, 2020, 560, 86-94. | 0.6 | 1 |
| 100 | Interferometric measurements of graphene-based membranes for micromechanical applications. Ferroelectrics, 2020, 560, 95-101. | 0.6 | 0 |
| 101 | Calibration of the in-plane PFM response by the lateral force curves. Ferroelectrics, 2020, 559, 15-21. | 0.6 | 10 |
| 102 | Domain splitting in lithium niobate with surface dielectric layer. Ferroelectrics, 2020, 559, 8-14. | 0.6 | 0 |
| 103 | Domain patterning of non-polar cut lithium niobate by focused ion beam. Ferroelectrics, 2020, 559, 66-76. | 0.6 | 5 |
| 104 | Polarization reversal in lithium niobate with inhomogeneous stoichiometry deviation. Ferroelectrics, 2020, 559, 102-108. | 0.6 | 3 |
| 105 | Piezoelectric Actuation of Graphene-Coated Polar Structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2142-2147. | 3.0 | 4 |
| 106 | Study of the electric field-induced domain structure transformation in BaTiO ₃ ceramics by high resolution methods. Ferroelectrics, 2020, 559, 83-92. | 0.6 | 5 |
| 107 | Self-assembled shape evolution of the domain wall and formation of nanodomain wall traces induced by multiple IR laser pulse irradiation in lithium niobate. Journal of Applied Physics, 2020, 127, 094103. | 2.5 | 9 |
| 108 | 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. Dose-Response, 2020, 18, 155932582091418. | 1.6 | 12 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | 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> , 2020, 40, 2922-2928. | 5.7 | 9 |
| 110 | Analysis of switching current data in KTA single crystals. <i>Ferroelectrics</i> , 2020, 559, 1-7. | 0.6 | 1 |
| 111 | Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO ₃ thin films. <i>Applied Materials Today</i> , 2020, 20, 100740. | 4.3 | 7 |
| 112 | Manifestation of Systemic Toxicity in Rats after a Short-Time Inhalation of Lead Oxide Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 690. | 4.1 | 22 |
| 113 | Silicon-hydroxyapatite-glycerohydrogel as a promising biomaterial for dental applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110851. | 5.0 | 12 |
| 114 | L-Lysine-modified Fe ₃ O ₄ nanoparticles for magnetic cell labeling. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110879. | 5.0 | 25 |
| 115 | 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> , 2020, 30, 025401. | 1.2 | 0 |
| 116 | Precise control of the size and gap between gold nanocubes by surface-based synthesis for high SERS performance. <i>Soft Matter</i> , 2020, 16, 1857-1865. | 2.7 | 10 |
| 117 | Domain structure formation by local switching in the ion sliced lithium niobate thin films. <i>Applied Physics Letters</i> , 2020, 116, . | 3.3 | 17 |
| 118 | 10.1063/5.0008522.1., 2020, , . | | 0 |
| 119 | 10.1063/5.0014220.1., 2020, , . | | 0 |
| 120 | Comparison optical parametric oscillators based on PPKTA and PPKTP for gas analyzers. , 2020, , . | | 0 |
| 121 | Observation of the Photoinduced Conductivity in a Regular Domain Structure with Tilted Walls in MgO:LiNbO ₃ at a Wavelength of 632.8 nm at Bragg Diffraction. <i>JETP Letters</i> , 2020, 112, 602-606. | 1.4 | 1 |
| 122 | More data on in vitro assessment of comparative and combined toxicity of metal oxide nanoparticles. <i>Food and Chemical Toxicology</i> , 2019, 133, 110753. | 3.6 | 15 |
| 123 | The bulk screening field in nonstoichiometric lithium tantalate single crystals. <i>Ferroelectrics</i> , 2019, 541, 30-38. | 0.6 | 1 |
| 124 | Formation of the quasi-regular stripe nanodomain structures in lithium tantalate by scanning laser heating. <i>Ferroelectrics</i> , 2019, 541, 61-65. | 0.6 | 2 |
| 125 | Temperature and electric field treatment of the rhombohedral PMN-PT single crystals. <i>Ferroelectrics</i> , 2019, 541, 66-73. | 0.6 | 1 |
| 126 | Effect of ferroelectric domains on electric properties of single layer graphene. <i>Ferroelectrics</i> , 2019, 542, 93-101. | 0.6 | 2 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Electrically controllable diffraction of light on periodic domain structures in ferroelectric crystals. <i>Ferroelectrics</i> , 2019, 542, 58-63. | 0.6 | 4 |
| 128 | E-beam domain patterning in thin plates of MgO-doped LiNbO ₃ . <i>Ferroelectrics</i> , 2019, 542, 85-92. | 0.6 | 3 |
| 129 | Indentation induced local polarization reversal in La doped BiFeO ₃ ceramics. <i>Ferroelectrics</i> , 2019, 541, 1-9. | 0.6 | 4 |
| 130 | Forward domain growth in 36° Y-cut congruent lithium niobate. <i>Ferroelectrics</i> , 2019, 541, 115-122. | 0.6 | 0 |
| 131 | Linear optical properties and second-harmonic generation of (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ –xPbTiO ₃ single crystals. <i>Ferroelectrics</i> , 2019, 542, 112-119. | 0.6 | 8 |
| 132 | Influence of composition gradients on heat induced initial domain structure in lithium tantalate. <i>Ferroelectrics</i> , 2019, 542, 13-20. | 0.6 | 8 |
| 133 | Self-organized domain formation by moving the biased SPM tip. <i>Ferroelectrics</i> , 2019, 542, 70-76. | 0.6 | 7 |
| 134 | Raman study of pyroelectric and injected charge induced fields in PLZT 8/65/35 ceramics. <i>Ferroelectrics</i> , 2019, 542, 102-111. | 0.6 | 0 |
| 135 | Annealing stability of the domain structure in periodically poled MgO doped lithium niobate single crystals. <i>Ferroelectrics</i> , 2019, 542, 45-51. | 0.6 | 1 |
| 136 | Micro-Raman Imaging of Ferroelectric Domain Structures in the Bulk of PMN-PT Single Crystals. <i>Crystals</i> , 2019, 9, 65. | 2.2 | 10 |
| 137 | Synthesis of nanocomposite with a core-shell structure based on Fe ₃ O ₄ magnetic nanoparticles and iron glycerolate. <i>Russian Chemical Bulletin</i> , 2019, 68, 1178-1182. | 1.5 | 7 |
| 138 | Analogy between growth of crystals and ferroelectric domains. Application of Wulff construction. <i>Journal of Crystal Growth</i> , 2019, 526, 125236. | 1.5 | 8 |
| 139 | Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. <i>Crystal Growth and Design</i> , 2019, 19, 6414-6421. | 3.0 | 38 |
| 140 | Diffraction of Light on a Regular Domain Structure with Inclined Walls in MgO:LiNbO ₃ . <i>JETP Letters</i> , 2019, 110, 178-182. | 1.4 | 3 |
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