

# V Ya Shur

## List of Publications by Citations

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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	Static conductivity of charged domain walls in uniaxial ferroelectric semiconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	181
507	Backswitch poling in lithium niobate for high-fidelity domain patterning and efficient blue light generation. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1673-1675	3.4	176
506	Kinetics of ferroelectric domains: Application of general approach to LiNbO <sub>3</sub> and LiTaO <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2006</b> , 41, 199-210	4.3	175
505	Micro- and nano-domain engineering in lithium niobate. <i>Applied Physics Reviews</i> , <b>2015</b> , 2, 040604	17.3	140
504	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
503	Kinetics of phase transformations in real finite systems: Application to switching in ferroelectrics. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 445-451	2.5	136
502	Silica-gold nanoparticles for atheroprotective management of plaques: results of the NANOM-FIM trial. <i>Nanoscale</i> , <b>2015</b> , 7, 8003-15	7.7	126
501	Nanoscale backswitched domain patterning in lithium niobate. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 143-145	3.4	118
500	Intermittency, quasiperiodicity and chaos in probe-induced ferroelectric domain switching. <i>Nature Physics</i> , <b>2014</b> , 10, 59-66	16.2	116
499	Formation and evolution of charged domain walls in congruent lithium niobate. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3636-3638	3.4	85
498	Growth and concentration dependencies of rare-earth doped lithium niobate single crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 291, 390-397	1.6	80
497	Correlated Nucleation and Self-Organized Kinetics of Ferroelectric Domains <b>2005</b> , 178-214		72
496	Regular ferroelectric domain array in lithium niobate crystals for nonlinear optic applications. <i>Ferroelectrics</i> , <b>2000</b> , 236, 129-144	0.6	68
495	Investigation of the nanodomain structure formation by piezoelectric force microscopy and Raman confocal microscopy in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 052013	2.5	63
494	Nano- and micro-domain engineering in normal and relaxor ferroelectrics <b>2008</b> , 622-669		61
493	In vivo toxicity of copper oxide, lead oxide and zinc oxide nanoparticles acting in different combinations and its attenuation with a complex of innocuous bio-protectors. <i>Toxicology</i> , <b>2017</b> , 380, 72-93	4.4	58
492	Humidity effects on tip-induced polarization switching in lithium niobate. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 092908	3.4	58

491	Domain Engineering in Lithium Niobate and Lithium Tantalate: Domain Wall Motion. <i>Ferroelectrics</i> , <b>2006</b> , 340, 3-16	0.6	58
490	Recent achievements in domain engineering in lithium niobate and lithium tantalate. <i>Ferroelectrics</i> , <b>2001</b> , 257, 191-202	0.6	58
489	Continuous-wave quasi-phase-matched generation of 60 mW at 465 nm by single-pass frequency doubling of a laser diode in backswitch-poled lithium niobate. <i>Optics Letters</i> , <b>1999</b> , 24, 1293-5	3	58
488	Comparative in vivo assessment of some adverse bioeffects of equidimensional gold and silver nanoparticles and the attenuation of nanosilver's effects with a complex of innocuous bioprotectors. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 2449-83	6.3	56
487	Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	56
486	Piezoelectric properties of diphenylalanine microtubes prepared from the solution. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 93, 68-72	3.9	55
485	Finite size and intrinsic field effect on the polar-active properties of ferroelectric-semiconductor heterostructures. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	55
484	Rearrangement of ferroelectric domain structure induced by chemical etching. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 022905	3.4	55
483	Domain structure of lead germanate. <i>Ferroelectrics</i> , <b>1989</b> , 98, 29-49	0.6	54
482	Kinetics of ferroelectric domain structure: Retardation effects. <i>Ferroelectrics</i> , <b>1997</b> , 191, 319-333	0.6	53
481	Kinetics of ferroelectric domain structure during switching: Theory and experiment. <i>Ferroelectrics</i> , <b>1994</b> , 151, 171-180	0.6	53
480	Toward Ferroelectric Control of Monolayer MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 3364-9	11.5	52
479	Micro- and nanodomain imaging in uniaxial ferroelectrics: Joint application of optical, confocal Raman, and piezoelectric force microscopy. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 066802	2.5	52
478	Raman visualization of micro- and nanoscale domain structures in lithium niobate. <i>Applied Physics A: Materials Science and Processing</i> , <b>2010</b> , 99, 741-744	2.6	52
477	Subchronic toxicity of copper oxide nanoparticles and its attenuation with the help of a combination of bioprotectors. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 12379-406	6.3	51
476	Influence of adsorbed surface layer on domain growth in the field produced by conductive tip of scanning probe microscope in lithium niobate. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 052017	2.5	51
475	Polarization reversal in congruent and stoichiometric lithium tantalate. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3146-3148	3.4	51
474	Symmetry breaking and electrical frustration during tip-induced polarization switching in the nonpolar cut of lithium niobate single crystals. <i>ACS Nano</i> , <b>2015</b> , 9, 769-77	16.7	50

473	Dual strain mechanisms in a lead-free morphotropic phase boundary ferroelectric. <i>Scientific Reports</i> , <b>2016</b> , 6, 19630	4.9	49
472	Attenuation of Combined Nickel(II) Oxide and Manganese(II, III) Oxide Nanoparticles' Adverse Effects with a Complex of Bioprotectors. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 22555-83	6.3	48
471	Physical basis of the domain engineering in the bulk ferroelectrics. <i>Ferroelectrics</i> , <b>1999</b> , 221, 157-167	0.6	48
470	Field Induced Evolution of Regular and Random 2D Domain Structures and Shape of Isolated Domains in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> . <i>Ferroelectrics</i> , <b>2006</b> , 341, 109-116	0.6	47
469	Formation of Self-Similar Surface Nano-Domain Structures in Lithium Niobate Under Highly Nonequilibrium Conditions. <i>Ferroelectrics</i> , <b>2006</b> , 341, 85-93	0.6	47
468	Kinetic approach to fatigue phenomenon in ferroelectrics. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 6312-6315	1.5	47
467	Domain Shape in Congruent and Stoichiometric Lithium Tantalate. <i>Ferroelectrics</i> , <b>2002</b> , 269, 195-200	0.6	47
466	A comparative study of structural and electrical properties in lead-free BCZT ceramics: Influence of the synthesis method. <i>Acta Materialia</i> , <b>2018</b> , 155, 331-342	8.4	46
465	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
464	Atomic structure, electronic states, and optical properties of epitaxially grown EGa <sub>2</sub> O <sub>3</sub> layers. <i>Superlattices and Microstructures</i> , <b>2018</b> , 120, 90-100	2.8	45
463	Direct probing of charge injection and polarization-controlled ionic mobility on ferroelectric LiNbO <sub>3</sub> surfaces. <i>Advanced Materials</i> , <b>2014</b> , 26, 958-63	24	44
462	Kinetics of polarization reversal in normal and relaxor ferroelectrics: Relaxation effects. <i>Phase Transitions</i> , <b>1998</b> , 65, 49-72	1.3	44
461	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. <i>Applied Surface Science</i> , <b>2018</b> , 436, 697-707	6.7	43
460	Plasmonic photothermal therapy of atherosclerosis with nanoparticles: long-term outcomes and safety in NANOM-FIM trial. <i>Future Cardiology</i> , <b>2017</b> , 13, 345-363	1.3	42
459	Dynamics of plane domain walls in lead germanate and gadolinium molybdate. <i>Ferroelectrics</i> , <b>1990</b> , 111, 197-206	0.6	42
458	Ionic field effect and memristive phenomena in single-point ferroelectric domain switching. <i>Nature Communications</i> , <b>2014</b> , 5, 4545	17.4	41
457	In situ investigation of formation of self-assembled nanodomain structure in lithium niobate after pulse laser irradiation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 082901	3.4	40
456	Domain kinetics in the formation of a periodic domain structure in lithium niobate. <i>Physics of the Solid State</i> , <b>1999</b> , 41, 1681-1687	0.8	40

455	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
454	Subchronic systemic toxicity and bioaccumulation of Fe <sub>3</sub> O <sub>4</sub> nano- and microparticles following repeated intraperitoneal administration to rats. <i>International Journal of Toxicology</i> , <b>2011</b> , 30, 59-68	2.4	39
453	Screening and retardation effects on 180°-domain wall motion in ferroelectrics: Wall velocity and nonlinear dynamics due to polarization-screening charge interactions. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	39
452	Pyroelectric effect and polarization instability in self-assembled diphenylalanine microtubes. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 142902	3.4	39
451	Some patterns of metallic nanoparticles' combined subchronic toxicity as exemplified by a combination of nickel and manganese oxide nanoparticles. <i>Food and Chemical Toxicology</i> , <b>2015</b> , 86, 351-67	4.7	38
450	Dynamics of domain structure in uniaxial ferroelectrics. <i>Ferroelectrics</i> , <b>1990</b> , 111, 123-131	0.6	38
449	Shape of isolated domains in lithium tantalate single crystals at elevated temperatures. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 242903	3.4	37
448	On the contribution of the phagocytosis and the solubilization to the iron oxide nanoparticles retention in and elimination from lungs under long-term inhalation exposure. <i>Toxicology</i> , <b>2016</b> , 363-364, 19-28	4.4	36
447	How to extract information about domain kinetics in thin ferroelectric films from switching transient current data. <i>Integrated Ferroelectrics</i> , <b>1994</b> , 5, 293-301	0.8	35
446	Interaction of domain walls with defects in ferroelectric materials. <i>Mechanics of Materials</i> , <b>2007</b> , 39, 161-174	3.4	33
445	Polarization fatigue in PbZr <sub>0.45</sub> Ti <sub>0.55</sub> O <sub>3</sub> -based capacitors studied from high resolution synchrotron x-ray diffraction. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 064108	2.5	33
444	Growth and Nonlinear Optical Properties of Glycine Crystals Grown on Pt Substrates. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2831-2837	3.5	32
443	Tip-induced domain growth on the non-polar cuts of lithium niobate single-crystals. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 182902	3.4	32
442	Dielectric relaxation and charged domain walls in (K,Na)NbO <sub>3</sub> -based ferroelectric ceramics. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 074101	2.5	31
441	The effect of phase assemblages, grain boundaries and domain structure on the local switching behavior of rare-earth modified bismuth ferrite ceramics. <i>Acta Materialia</i> , <b>2017</b> , 125, 265-273	8.4	31
440	Low-temperature photoluminescence in self-assembled diphenylalanine microtubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 1658-1662	2.3	31
439	Domain patterning by electron beam of MgO doped lithium niobate covered by resist. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 232902	3.4	30
438	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

437	Local manifestations of a static magnetoelectric effect in nanostructured BaTiO <sub>3</sub> -BaFe <sub>12</sub> O <sub>19</sub> composite multiferroics. <i>Nanoscale</i> , <b>2015</b> , 7, 4489-96	7.7	29
436	New Approach to Analysis of the Switching Current Data in Ferroelectric Thin Films. <i>Ferroelectrics</i> , <b>2003</b> , 291, 27-35	0.6	29
435	Tilt control of the charged domain walls in lithium niobate. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 092901	3.4	28
434	Nanodomain structures formation during polarization reversal in uniform electric field in strontium barium niobate single crystals. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 064117	2.5	28
433	Investigation of Jerky Domain Wall Motion in Lithium Niobate. <i>Ferroelectrics</i> , <b>2008</b> , 374, 136-143	0.6	28
432	Crystal growth and domain structure evolution. <i>Ferroelectrics</i> , <b>1993</b> , 142, 1-7	0.6	28
431	Time-dependent conduction current in lithium niobate crystals with charged domain walls. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 102905	3.4	27
430	Ferroelectric Domain Structure and Local Piezoelectric Properties of Lead-Free (KNa)NbO <sub>3</sub> and BiFeO <sub>3</sub> Based Piezoelectric Ceramics. <i>Materials</i> , <b>2017</b> , 10,	3.5	27
429	Formation of dendrite domain structures in stoichiometric lithium niobate at elevated temperatures. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 104113	2.5	27
428	Raman Study of Neutral and Charged Domain Walls in Lithium Niobate. <i>Ferroelectrics</i> , <b>2010</b> , 398, 34-41	0.6	27
427	Change of domain structure of lead germanate in strong electric field. <i>Ferroelectrics</i> , <b>1992</b> , 126, 371-376	0.6	27
426	Periodically poled crystals of KTP family: a review. <i>Ferroelectrics</i> , <b>2016</b> , 496, 49-69	0.6	27
425	Evaporation-Driven Crystallization of Diphenylalanine Microtubes for Microelectronic Applications. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 1472-1479	3.5	26
424	Formation of Nano-Scale Domain Structures in Lithium Niobate Using High-Intensity Laser Irradiation. <i>Ferroelectrics</i> , <b>2008</b> , 373, 133-138	0.6	26
423	Formation of self-organized nanodomain patterns during spontaneous backswitching in lithium niobate. <i>Ferroelectrics</i> , <b>2001</b> , 253, 105-114	0.6	26
422	A paradoxical response of the rat organism to long-term inhalation of silica-containing submicron (predominantly nanoscale) particles of a collected industrial aerosol at realistic exposure levels. <i>Toxicology</i> , <b>2017</b> , 384, 59-68	4.4	25
421	Some Peculiarities of Pulmonary Clearance Mechanisms in Rats after Intratracheal Instillation of Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) Suspensions with Different Particle Sizes in the Nanometer and Micrometer Ranges: Are We Defenseless against Nanoparticles?. <i>International Journal of Occupational and Environmental Health</i> , <b>2010</b> , 16, 508-524		25
420	Shapes of isolated domains and field induced evolution of regular and random 2D domain structures in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 120, 109-113	3.1	25

4 <sup>19</sup>	Evolution of bias field and offset piezoelectric coefficient in bulk lead zirconate titanate with fatigue. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 012910	3.4	25
4 <sup>18</sup>	Barkhausen Jumps During Domain Wall Motion in Ferroelectrics. <i>Ferroelectrics</i> , <b>2002</b> , 267, 347-353	0.6	25
4 <sup>17</sup>	Emission of electrons on switching of the Gd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> ferroelectric-ferroelastic in electric field. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 689-691	3.4	25
4 <sup>16</sup>	Symmetry changes during relaxation process and pulse discharge performance of the BaTiO <sub>3</sub> -Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> ceramic. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 054101	2.5	24
4 <sup>15</sup>	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 6414-6421	3.5	24
4 <sup>14</sup>	Domain Nanotechnology in Lithium Niobate and Lithium Tantalate Crystals. <i>Ferroelectrics</i> , <b>2010</b> , 399, 97-106	0.6	24
4 <sup>13</sup>	Complex study of bulk screening processes in single crystals of lithium niobate and lithium tantalate family. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 2147-2153	0.8	24
4 <sup>12</sup>	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO <sub>2</sub> -host by Pb-implantation: XPS-and-DFT characterization. <i>Applied Surface Science</i> , <b>2017</b> , 400, 110-117	6.7	23
4 <sup>11</sup>	Superfast domain walls in KTP single crystals. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 152907	3.4	23
4 <sup>10</sup>	Combined Subchronic Toxicity of Aluminum (III), Titanium (IV) and Silicon (IV) Oxide Nanoparticles and Its Alleviation with a Complex of Bioprotectors. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	23
4 <sup>09</sup>	Some inferences from in vivo experiments with metal and metal oxide nanoparticles: the pulmonary phagocytosis response, subchronic systemic toxicity and genotoxicity, regulatory proposals, searching for bioprotectors (a self-overview). <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 3013-29	7.3	23
4 <sup>08</sup>	Polarization reversal and jump-like domain wall motion in stoichiometric LiTaO <sub>3</sub> produced by vapor transport equilibration. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 014101	2.5	23
4 <sup>07</sup>	Discrete Switching by Growth of Nano-Scale Domain Rays Under Highly-Nonequilibrium Conditions in Lithium Niobate Single Crystals. <i>Ferroelectrics</i> , <b>2008</b> , 373, 99-108	0.6	23
4 <sup>06</sup>	Self-Organization in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> : Formation of Micro- and Nano-Scale Domain Patterns. <i>Ferroelectrics</i> , <b>2004</b> , 304, 111-116	0.6	23
4 <sup>05</sup>	Periodic domain patterning by electron beam of proton exchanged waveguides in lithium niobate. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 192903	3.4	23
4 <sup>04</sup>	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10543-10551	9.5	22
4 <sup>03</sup>	Temperature and Composition-Induced Structural Transitions in Bi <sub>1-x</sub> La <sub>x</sub> FeO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2631-2638	3.8	22
4 <sup>02</sup>	InSitu Observation of the Humidity Controlled Polymorphic Phase Transformation in Glycine Microcrystals. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4138-4142	3.5	22

401	Sizes and fluorescence of cadmium sulfide quantum dots. <i>Physics of the Solid State</i> , <b>2013</b> , 55, 624-628	0.8	22
400	Raman Probe on PPLN Microstructures. <i>Ferroelectrics</i> , <b>2008</b> , 373, 26-31	0.6	22
399	Shape Evolution of Isolated Micro-Domains in Lithium Niobate. <i>Ferroelectrics</i> , <b>2007</b> , 360, 111-119	0.6	22
398	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
397	Quantitative phase separation in multiferroic Bi <sub>0.88</sub> Sm <sub>0.12</sub> FeO <sub>3</sub> ceramics via piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 072004	2.5	21
396	Domain switching by electron beam irradiation of Z <sup>+</sup> -polar surface in Mg-doped lithium niobate. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 052908	3.4	21
395	The MRO-accompanied modes of Re-implantation into SiO <sub>2</sub> -host matrix: XPS and DFT based scenarios. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 759-766	5.7	21
394	Influence of Surface Layers Modified by Proton Exchange on Domain Kinetics of Lithium Niobate. <i>Ferroelectrics</i> , <b>2008</b> , 374, 14-19	0.6	21
393	Fast reversal process in real ferroelectrics. <i>Integrated Ferroelectrics</i> , <b>1992</b> , 2, 51-61	0.8	21
392	Polarization reversal induced by heating-cooling cycles in MgO doped lithium niobate crystals. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 187211	2.5	20
391	AC Switching of Relaxor PLZT Ceramics. <i>Ferroelectrics</i> , <b>2005</b> , 314, 245-253	0.6	20
390	Characterization of LiMn <sub>2</sub> O <sub>4</sub> cathodes by electrochemical strain microscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 113106	3.4	20
389	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
388	Experimental Research into Metallic and Metal Oxide Nanoparticle Toxicity In Vivo. <i>Nanomedicine and Nanotoxicology</i> , <b>2017</b> , 259-319	0.3	19
387	Domain Nanotechnology in Ferroelectrics: Nano-Domain Engineering in Lithium Niobate Crystals. <i>Ferroelectrics</i> , <b>2008</b> , 373, 1-10	0.6	19
386	Laser-induced modification of glass-ceramics microstructure and applications. <i>Applied Surface Science</i> , <b>2005</b> , 248, 231-237	6.7	19
385	Are in vivo and in vitro assessments of comparative and combined toxicity of the same metallic nanoparticles compatible, or contradictory, or both? A juxtaposition of data obtained in respective experiments with NiO and MnO nanoparticles. <i>Food and Chemical Toxicology</i> , <b>2017</b> , 109, 393-404	4.7	18
384	Domain structures and local switching in lead-free piezoceramics Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.90</sub> Zr <sub>0.10</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 072002	2.5	18



383	Energy harvesting from nanofibers of hybrid organic ferroelectric dabcO <sub>4</sub> HReO <sub>4</sub> . <i>Applied Physics Letters</i> , <b>2014</b> , 104, 032907	3.4	18
382	Study of Nanoscale Domain Structure Formation Using Raman Confocal Microscopy. <i>Ferroelectrics</i> , <b>2010</b> , 398, 91-97	0.6	18
381	Self-similar surface nanodomain structures induced by laser irradiation in lithium niobate. <i>Physics of the Solid State</i> , <b>2008</b> , 50, 717-723	0.8	18
380	Nanoscale Domain Effects in Ferroelectrics. Formation and Evolution of Self-Assembled Structures in LiNbO <sub>3</sub> and LiTaO <sub>3</sub> . <i>Ferroelectrics</i> , <b>2007</b> , 354, 145-157	0.6	18
379	Electromechanical properties of electrostrictive CeO <sub>2</sub> :Gd membranes: Effects of frequency and temperature. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 142902	3.4	17
378	Domain Nanotechnology in Ferroelectric Single Crystals: Lithium Niobate and Lithium Tantalate Family. <i>Ferroelectrics</i> , <b>2013</b> , 443, 71-82	0.6	17
377	Abnormal Domain Growth in Lithium Niobate with Surface Layer Modified by Proton Exchange. <i>Ferroelectrics</i> , <b>2010</b> , 398, 108-114	0.6	17
376	Influence of irradiation on the switching behavior in PZT thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 120, 141-145	3.1	17
375	Ferroelectric domain triggers the charge modulation in semiconductors (invited). <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 066817	2.5	16
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97	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
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