V Ya Shur

List of Publications by Year
in descending order

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	Achieve ultrahigh energy storage performance in BaTiO3â€“Bi(Mg1/2Ti1/2)O3 relaxor ferroelectric ceramics via nano-scale polarization mismatch and reconstruction. Nano Energy, 2020, 67, 104264.	16.0	320
2	Backswitch poling in lithium niobate for high-fidelity domain patterning and efficient blue light generation. Applied Physics Letters, 1999, 75, 1673-1675.	3.3	215
3	Static conductivity of charged domain walls in uniaxial ferroelectric semiconductors. Physical Review B, 2011, 83, .	3.2	214
4	Kinetics of ferroelectric domains: Application of general approach to LiNbO3 and LiTaO3. Journal of Materials Science, 2006, 41, 199-210.	3.7	187
5	Micro- and nano-domain engineering in lithium niobate. Applied Physics Reviews, 2015, 2, .	11.3	173
6	Silicaâ€“gold nanoparticles for atheroprotective management of plaques: results of the NANOM-FIM trial. Nanoscale, 2015, 7, 8003-8015.	5.6	171
7	Kinetics of phase transformations in real finite systems: Application to switching in ferroelectrics. Journal of Applied Physics, 1998, 84, 445-451.	2.5	149
8	Intermittency, quasiperiodicity and chaos in probe-induced ferroelectric domain switching. Nature Physics, 2014, 10, 59-66.	16.7	129
9	Nanoscale backswitched domain patterning in lithium niobate. Applied Physics Letters, 2000, 76, 143-145.	3.3	125
10	Formation and evolution of charged domain walls in congruent lithium niobate. Applied Physics Letters, 2000, 77, 3636-3638.	3.3	95
11	Growth and concentration dependencies of rare-earth doped lithium niobate single crystals. Journal of Crystal Growth, 2006, 291, 390-397.	1.5	93
12	Photoresponsive Organicâ€“Inorganic Hybrid Ferroelectric Designed at the Molecular Level. Journal of the American Chemical Society, 2020, 142, 16990-16998.	13.7	92
13	A comparative study of structural and electrical properties in lead-free BCZT ceramics: Influence of the synthesis method. Acta Materialia, 2018, 155, 331-342.	7.9	85
14	Piezoelectric properties of diphenylalanine microtubes prepared from the solution. Journal of Physics and Chemistry of Solids, 2016, 93, 68-72.	4.0	81
15	Correlated Nucleation and Self-Organized Kinetics of Ferroelectric Domains. , 2005, , 178-214.		78
16	Regular ferroelectric domain array in lithium niobate crystals for nonlinear optic applications. Ferroelectrics, 2000, 236, 129-144.	0.6	75
17	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. Toxicology, 2017, 380, 72-93.	4.2	74
18	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. Optics Letters, 1999, 24, 1293.	3.3	68

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19	Subchronic Toxicity of Copper Oxide Nanoparticles and Its Attenuation with the Help of a Combination of Bioprotectors. International Journal of Molecular Sciences, 2014, 15, 12379-12406.	4.1	68
20	Comparative in Vivo Assessment of Some Adverse Bioeffects of Equidimensional Gold and Silver Nanoparticles and the Attenuation of Nanosilverâ€™s Effects with a Complex of Innocuous Bioprotectors. International Journal of Molecular Sciences, 2013, 14, 2449-2483.	4.1	67
21	Nano- and micro-domain engineering in normal and relaxor ferroelectrics. , 2008, , 622-669.		66
22	Investigation of the nanodomain structure formation by piezoelectric force microscopy and Raman confocal microscopy in LiNbO3 and LiTaO3 crystals. Journal of Applied Physics, 2011, 110, 052013.	2.5	65
23	Humidity effects on tip-induced polarization switching in lithium niobate. Applied Physics Letters, 2014, 104, 092908.	3.3	64
24	Plasmonic photothermal therapy of atherosclerosis with nanoparticles: long-term outcomes and safety in NANOM-FIM trial. Future Cardiology, 2017, 13, 345-363.	1.2	64
25	Recent achievements in domain engineering in lithium niobate and lithium tantalate. Ferroelectrics, 2001, 257, 191-202.	0.6	63
26	Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. Physical Review B, 2009, 80, .	3.2	63
27	Electronic structure, charge transfer, and intrinsic luminescence of gadolinium oxide nanoparticles: Experiment and theory. Applied Surface Science, 2018, 436, 697-707.	6.1	63
28	Domain structure of lead germanate. Ferroelectrics, 1989, 98, 29-49.	0.6	62
29	Domain Engineering in Lithium Niobate and Lithium Tantalate: Domain Wall Motion. Ferroelectrics, 2006, 340, 3-16.	0.6	62
30	Toward Ferroelectric Control of Monolayer MoS₂. Nano Letters, 2015, 15, 3364-3369.	9.1	62
31	Raman visualization of micro- and nanoscale domain structures inÂlithium niobate. Applied Physics A: Materials Science and Processing, 2010, 99, 741-744.	2.3	61
32	Micro- and nanodomain imaging in uniaxial ferroelectrics: Joint application of optical, confocal Raman, and piezoelectric force microscopy. Journal of Applied Physics, 2014, 116, .	2.5	61
33	Rearrangement of ferroelectric domain structure induced by chemical etching. Applied Physics Letters, 2005, 87, 022905.	3.3	60
34	Atomic structure, electronic states, and optical properties of epitaxially grown Î²-Ga2O3 layers. Superlattices and Microstructures, 2018, 120, 90-100.	3.1	60
35	Domain kinetics in the formation of a periodic domain structure in lithium niobate. Physics of the Solid State, 1999, 41, 1681-1687.	0.6	58
36	Symmetry Breaking and Electrical Frustration during Tip-Induced Polarization Switching in the Nonpolar Cut of Lithium Niobate Single Crystals. ACS Nano, 2015, 9, 769-777.	14.6	58

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37	Finite size and intrinsic field effect on the polar-active properties of ferroelectric-semiconductor heterostructures. Physical Review B, 2010, 81, .	3.2	57
38	Dual strain mechanisms in a lead-free morphotropic phase boundary ferroelectric. Scientific Reports, 2016, 6, 19630.	3.3	57
39	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
40	Polarization reversal in congruent and stoichiometric lithium tantalate. Applied Physics Letters, 2001, 79, 3146-3148.	3.3	56
41	Kinetics of ferroelectric domain structure during switching: Theory and experiment. Ferroelectrics, 1994, 151, 171-180.	0.6	55
42	Kinetics of ferroelectric domain structure: Retardation effects. Ferroelectrics, 1997, 191, 319-333.	0.6	55
43	Influence of adsorbed surface layer on domain growth in the field produced by conductive tip of scanning probe microscope in lithium niobate. Journal of Applied Physics, 2011, 110, .	2.5	55
44	Attenuation of Combined Nickel(II) Oxide and Manganese(II, III) Oxide Nanoparticlesâ€™ Adverse Effects with a Complex of Bioprotectors. International Journal of Molecular Sciences, 2015, 16, 22555-22583.	4.1	55
45	Physical basis of the domain engineering in the bulk ferroelectrics. Ferroelectrics, 1999, 221, 157-167.	0.6	54
46	Formation of Self-Similar Surface Nano-Domain Structures in Lithium Niobate Under Highly Nonequilibrium Conditions. Ferroelectrics, 2006, 341, 85-93.	0.6	52
47	Subchronic Systemic Toxicity and Bioaccumulation of Fe₃O₄ Nano- and Microparticles Following Repeated Intraperitoneal Administration to Rats. International Journal of Toxicology, 2011, 30, 59-68.	1.2	52
48	Characterization of PPLN-microstructures by means of Raman spectroscopy. Applied Physics A: Materials Science and Processing, 2008, 91, 65-67.	2.3	49
49	Direct Probing of Charge Injection and Polarizationâ€Controlled Ionic Mobility on Ferroelectric LiNbO₃ Surfaces. Advanced Materials, 2014, 26, 958-963.	21.0	49
50	Pyroelectric effect and polarization instability in self-assembled diphenylalanine microtubes. Applied Physics Letters, 2016, 109, .	3.3	49
51	Ionic field effect and memristive phenomena in single-point ferroelectric domain switching. Nature Communications, 2014, 5, 4545.	12.8	48
52	Kinetics of polarization reversal in normal and relaxor ferroelectrics: Relaxation effects. Phase Transitions, 1998, 65, 49-72.	1.3	47
53	Kinetic approach to fatigue phenomenon in ferroelectrics. Journal of Applied Physics, 2001, 90, 6312-6315.	2.5	47
54	Domain Shape in Congruent and Stoichiometric Lithium Tantalate. Ferroelectrics, 2002, 269, 195-200.	0.6	47

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55	Field Induced Evolution of Regular and Random 2D Domain Structures and Shape of Isolated Domains in LiNbO3 and LiTaO3. Ferroelectrics, 2006, 341, 109-116.	0.6	47
56	Enhanced antiferroelectric-like relaxor ferroelectric characteristic boosting energy storage performance of (Bi0.5Na0.5)TiO3-based ceramics via defect engineering. Journal of Materiomics, 2022, 8, 527-536.	5.7	47
57	<i>In situ</i> investigation of formation of self-assembled nanodomain structure in lithium niobate after pulse laser irradiation. Applied Physics Letters, 2011, 99, 082901.	3.3	46
58	Some patterns of metallic nanoparticles' combined subchronic toxicity as exemplified by a combination of nickel and manganese oxide nanoparticles. Food and Chemical Toxicology, 2015, 86, 351-364.	3.6	46
59	Screening and retardation effects on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>180</mml:mn><mml:mo>Â°</mml:mo></mml:mrow></mml:math>-domain wall motion in ferroelectrics: Wall velocity and nonlinear dynamics due to polarization-screening charge interactions. Physical Review B, 2008, 78, .	3.2	44
60	Dynamics of plane domain walls in lead germanate and gadolinium molybdate. Ferroelectrics, 1990, 111, 197-206.	0.6	43
61	Growth and Nonlinear Optical Properties of Î²-Glycine Crystals Grown on Pt Substrates. Crystal Growth and Design, 2014, 14, 2831-2837.	3.0	42
62	Tip-induced domain growth on the non-polar cuts of lithium niobate single-crystals. Applied Physics Letters, 2015, 106, .	3.3	42
63	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. Toxicology, 2016, 363-364, 19-28.	4.2	41
64	Low-temperature photoluminescence in self-assembled diphenylalanine microtubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1658-1662.	2.1	40
65	Dynamics of domain structure in uniaxial ferroelectrics. Ferroelectrics, 1990, 111, 123-131.	0.6	40
66	Effective strategy to improve energy storage properties in lead-free (Ba0.8Sr0.2)TiO3-Bi(Mg0.5Zr0.5)O3 relaxor ferroelectric ceramics. Chemical Engineering Journal, 2022, 446, 137389.	12.7	40
67	Dielectric relaxation and charged domain walls in (K,Na)NbO3-based ferroelectric ceramics. Journal of Applied Physics, 2017, 121, .	2.5	39
68	Tilt control of the charged domain walls in lithium niobate. Applied Physics Letters, 2019, 114, .	3.3	39
69	Phase evolution and relaxor to ferroelectric phase transition boosting ultrahigh electrostrains in (1â^'x)(Bi1/2Na1/2)TiO3-x(Bi1/2K1/2)TiO3 solid solutions. Journal of Materiomics, 2022, 8, 335-346.	5.7	39
70	Polarization fatigue in PbZr0.45Ti0.55O3-based capacitors studied from high resolution synchrotron x-ray diffraction. Journal of Applied Physics, 2005, 97, 064108.	2.5	38
71	Shape of isolated domains in lithium tantalate single crystals at elevated temperatures. Applied Physics Letters, 2013, 103, .	3.3	38
72	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. Crystal Growth and Design, 2019, 19, 6414-6421.	3.0	38

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73	How to extract information about domain kinetics in thin ferroelectric films from switching transient current data. Integrated Ferroelectrics, 1994, 5, 293-301.	0.7	37
74	Ultrahigh electrostrictive effect in potassium sodium niobate-based lead-free ceramics. Journal of the European Ceramic Society, 2022, 42, 944-953.	5.7	37
75	Interaction of domain walls with defects in ferroelectric materials. Mechanics of Materials, 2007, 39, 161-174.	3.2	36
76	The effect of phase assemblages, grain boundaries and domain structure on the local switching behavior of rare-earth modified bismuth ferrite ceramics. Acta Materialia, 2017, 125, 265-273.	7.9	36
77	Time-dependent conduction current in lithium niobate crystals with charged domain walls. Applied Physics Letters, 2013, 103, .	3.3	35
78	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. Toxicology, 2017, 384, 59-68.	4.2	35
79	Immobilization of PMIDA on Fe3O4 magnetic nanoparticles surface: Mechanism of bonding. Applied Surface Science, 2018, 440, 1196-1203.	6.1	35
80	Ferroelectric Domain Structure and Local Piezoelectric Properties of Lead-Free (Ka0.5Na0.5)NbO3 and BiFeO3-Based Piezoelectric Ceramics. Materials, 2017, 10, 47.	2.9	34
81	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. ACS Applied Materials & Interfaces, 2018, 10, 10543-10551.	8.0	34
82	Domain patterning by electron beam of MgO doped lithium niobate covered by resist. Applied Physics Letters, 2015, 106, .	3.3	33
83	Periodically poled crystals of KTP family: a review. Ferroelectrics, 2016, 496, 49-69.	0.6	33
84	Evaporation-Driven Crystallization of Diphenylalanine Microtubes for Microelectronic Applications. Crystal Growth and Design, 2016, 16, 1472-1479.	3.0	33
85	Toxic Effects of Low-Level Long-Term Inhalation Exposures of Rats to Nickel Oxide Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 1778.	4.1	33
86	Thermal stability of dielectric and energy storage performances of Ca-substituted BNTZ ferroelectric ceramics. Ceramics International, 2021, 47, 6298-6309.	4.8	33
87	Achieving ultrahigh energy storage performance over a broad temperature range in (Bi0.5Na0.5)TiO3-based eco-friendly relaxor ferroelectric ceramics via multiple engineering processes. Journal of Alloys and Compounds, 2022, 896, 163139.	5.5	33
88	Crystal growth and domain structure evolution. Ferroelectrics, 1993, 142, 1-7.	0.6	32
89	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). International Journal of Nanomedicine, 2015, 10, 3013.	6.7	32
90	Local manifestations of a static magnetoelectric effect in nanostructured BaTiO₃â€“BaFe₁₂O₉composite multiferroics. Nanoscale, 2015, 7, 4489-4496.	5.6	32

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91	Temperature and Compositionâ€Induced Structural Transitions in <scp><scp>Bi</scp></scp>_{1â^’<i>x</i>}<scp><scp>La</scp></scp>(<scp><scp>Pr</scp></scp>)_{<i>x</i>}<scp Ceramics. Journal of the American Ceramic Society, 2014, 97, 2631-2638.	3.8	31
92	<i>In</i> <i>Situ</i> Observation of the Humidity Controlled Polymorphic Phase Transformation in Glycine Microcrystals. Crystal Growth and Design, 2014, 14, 4138-4142.	3.0	31
93	Symmetry changes during relaxation process and pulse discharge performance of the BaTiO3-Bi(Mg1/2Ti1/2)O3 ceramic. Journal of Applied Physics, 2018, 124, .	2.5	31
94	Barkhausen Jumps During Domain Wall Motion in Ferroelectrics. Ferroelectrics, 2002, 267, 347-353.	0.6	30
95	Investigation of Jerky Domain Wall Motion in Lithium Niobate. Ferroelectrics, 2008, 374, 136-143.	0.6	30
96	Nanodomain structures formation during polarization reversal in uniform electric field in strontium barium niobate single crystals. Journal of Applied Physics, 2012, 112, .	2.5	30
97	XPS-and-DFT analyses of the Pb 4f â€" Zn 3s and Pb 5d â€" O 2s overlapped ambiguity contributions to the final electronic structure of bulk and thin-film Pb-modulated zincite. Applied Surface Science, 2017, 405, 129-136.	6.1	30
98	Quantitative characterization of the ionic mobility and concentration in Li-battery cathodes <i>via</i> low frequency electrochemical strain microscopy. Nanoscale, 2018, 10, 2503-2511.	5.6	30
99	Change of domain structure of lead germanate in strong electric field. Ferroelectrics, 1992, 126, 371-376.	0.6	29
100	New Approach to Analysis of the Switching Current Data in Ferroelectric Thin Films. Ferroelectrics, 2003, 291, 27-35.	0.6	29
101	Raman Study of Neutral and Charged Domain Walls in Lithium Niobate. Ferroelectrics, 2010, 398, 34-41.	0.6	29
102	Sizes and fluorescence of cadmium sulfide quantum dots. Physics of the Solid State, 2013, 55, 624-628.	0.6	29
103	Evolution of bias field and offset piezoelectric coefficient in bulk lead zirconate titanate with fatigue. Applied Physics Letters, 2005, 86, 012910.	3.3	28
104	Some Peculiarities of Pulmonary Clearance Mechanisms in Rats after Intratracheal Instillation of Magnetite (Fe₃O₄) Suspensions with Different Particle Sizes in the Nanometer and Micrometer Ranges: Are We Defenseless against Nanoparticles?. International Journal of Occupational and Environmental Health, 2010, 16, 508-524.	1.2	28
105	Soft electronic structure modulation of surface (thin-film) and bulk (ceramics) morphologies of TiO 2 -host by Pb-implantation: XPS-and-DFT characterization. Applied Surface Science, 2017, 400, 110-117.	6.1	28
106	The MRO-accompanied modes of Re-implantation into SiO2-host matrix: XPS and DFT based scenarios. Journal of Alloys and Compounds, 2017, 728, 759-766.	5.5	28
107	Combined Subchronic Toxicity of Aluminum (III), Titanium (IV) and Silicon (IV) Oxide Nanoparticles and Its Alleviation with a Complex of Bioprotectors. International Journal of Molecular Sciences, 2018, 19, 837.	4.1	28
108	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

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109	Relaxor antiferroelectric-like characteristic boosting enhanced energy storage performance in eco-friendly (Bi0.5Na0.5)TiO3-based ceramics. Journal of the European Ceramic Society, 2022, 42, 4528-4538.	5.7	28
110	Formation of self-organized nanodomain patterns during spontaneous backswitching in lithium niobate. Ferroelectrics, 2001, 253, 105-114.	0.6	27
111	Complex study of bulk screening processes in single crystals of lithium niobate and lithium tantalate family. Physics of the Solid State, 2010, 52, 2147-2153.	0.6	27
112	Formation of dendrite domain structures in stoichiometric lithium niobate at elevated temperatures. Journal of Applied Physics, 2012, 112, 104113.	2.5	27
113	Emission of electrons on switching of the Gd2(MoO4)3ferroelectricâ€ferroelastic in electric field. Applied Physics Letters, 1990, 56, 689-691.	3.3	26
114	Raman Probe on PPLN Microstructures. Ferroelectrics, 2008, 373, 26-31.	0.6	26
115	Formation of Nano-Scale Domain Structures in Lithium Niobate Using High-Intensity Laser Irradiation. Ferroelectrics, 2008, 373, 133-138.	0.6	26
116	Discrete Switching by Growth of Nano-Scale Domain Rays Under Highly-Nonequilibrium Conditions in Lithium Niobate Single Crystals. Ferroelectrics, 2008, 373, 99-108.	0.6	26
117	Domain Nanotechnology in Lithium Niobate and Lithium Tantalate Crystals. Ferroelectrics, 2010, 399, 97-106.	0.6	26
118	Superfast domain walls in KTP single crystals. Applied Physics Letters, 2017, 111, .	3.3	26
119	Shapes of isolated domains and field induced evolution of regular and random 2D domain structures in LiNbO3 and LiTaO3. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 109-113.	3.5	25
120	Periodic domain patterning by electron beam of proton exchanged waveguides in lithium niobate. Applied Physics Letters, 2016, 108, .	3.3	25
121	L-Lysine-modified Fe3O4 nanoparticles for magnetic cell labeling. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110879.	5.0	25
122	Self-Organization in LiNbO3and LiTaO3: Formation of Micro- and Nano-Scale Domain Patterns. Ferroelectrics, 2004, 304, 111-116.	0.6	24
123	Polarization reversal induced by heating-cooling cycles in MgO doped lithium niobate crystals. Journal of Applied Physics, 2013, 113, .	2.5	24
124	Characterization of LiMn2O4 cathodes by electrochemical strain microscopy. Applied Physics Letters, 2016, 108, .	3.3	24
125	Raman spectroscopy, â€œbig dataâ€, and local heterogeneity of solid state synthesized lithium titanate. Journal of Power Sources, 2017, 346, 143-150.	7.8	24
126	Laser-induced modification of glassâ€“ceramics microstructure and applications. Applied Surface Science, 2005, 248, 231-237.	6.1	23

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127	Polarization reversal and jump-like domain wall motion in stoichiometric LiTaO3 produced by vapor transport equilibration. Journal of Applied Physics, 2012, 111, 014101.	2.5	23
128	Ferroelectric switching by the grounded scanning probe microscopy tip. Physical Review B, 2015, 91, .	3.2	23
129	Quantitative phase separation in multiferroic Bi0.88Sm0.12FeO3 ceramics via piezoresponse force microscopy. Journal of Applied Physics, 2015, 118, .	2.5	23
130	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of Î²-Glycine. ACS Applied Materials & Interfaces, 2017, 9, 20029-20037.	8.0	23
131	Are inÂvivo and inÂvitro 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 Mn 3 O 4 nanoparticles. Food and Chemical Toxicology, 2017, 109, 393-404.	3.6	23
132	Self-Organized Formation of Quasi-Regular Ferroelectric Nanodomain Structure on the Nonpolar Cuts by Grounded SPM Tip. ACS Applied Materials & Interfaces, 2018, 10, 36211-36217.	8.0	23
133	Temperature-dependent Raman spectroscopy, domain morphology and photoluminescence studies in lead-free BCZT ceramic. Ceramics International, 2021, 47, 2828-2838.	4.8	23
134	Fast reversal process in real ferroelectrics. Integrated Ferroelectrics, 1992, 2, 51-61.	0.7	22
135	Shape Evolution of Isolated Micro-Domains in Lithium Niobate. Ferroelectrics, 2007, 360, 111-119.	0.6	22
136	Influence of Surface Layers Modified by Proton Exchange on Domain Kinetics of Lithium Niobate. Ferroelectrics, 2008, 374, 14-19.	0.6	22
137	Energy harvesting from nanofibers of hybrid organic ferroelectric dabcoHReO4. Applied Physics Letters, 2014, 104, .	3.3	22
138	Domain switching by electron beam irradiation of Z+-polar surface in Mg-doped lithium niobate. Applied Physics Letters, 2014, 105, .	3.3	22
139	Manifestation of Systemic Toxicity in Rats after a Short-Time Inhalation of Lead Oxide Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 690.	4.1	22
140	Some Peculiarities of Pulmonary Clearance Mechanisms in Rats after Intratracheal Instillation of Magnetite (Fe₃O₄) Suspensions with Different Particle Sizes in the Nanometer and Micrometer Ranges: Are We Defenseless against Nanoparticles?. International Journal of Occupational and Environmental Health, 2010, 16, 508-524.	1.2	22
141	Domain Nanotechnology in Ferroelectrics: Nano-Domain Engineering in Lithium Niobate Crystals. Ferroelectrics, 2008, 373, 1-10.	0.6	21
142	AC Switching of Relaxor PLZT Ceramics. Ferroelectrics, 2005, 314, 245-253.	0.6	20
143	Study of Nanoscale Domain Structure Formation Using Raman Confocal Microscopy. Ferroelectrics, 2010, 398, 91-97.	0.6	20
144	Domain structures and local switching in lead-free piezoceramics Ba0.85Ca0.15Ti0.90Zr0.10O3. Journal of Applied Physics, 2015, 118, .	2.5	20

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145	Thickness effect on the structure, grain size, and local piezoresponse of self-polarized lead lanthanum zirconate titanate thin films. Journal of Applied Physics, 2016, 120, .	2.5	20
146	Experimental Research into Metallic and Metal Oxide Nanoparticle Toxicity In Vivo. Nanomedicine and Nanotoxicology, 2017, , 259-319.	0.2	20
147	Electroâ€chemomechanical Contribution to Mechanical Actuation in Gdâ€Doped Ceria Membranes. Advanced Materials Interfaces, 2019, 6, 1801592.	3.7	20
148	Nanoscale Domain Effects in Ferroelectrics. Formation and Evolution of Self-Assembled Structures in LiNbO₃and LiTaO₃. Ferroelectrics, 2007, 354, 145-157.	0.6	19
149	Some Characteristics of Free Cell Population in the Airways of Rats after Intratracheal Instillation of Copper-Containing Nano-Scale Particles. International Journal of Molecular Sciences, 2014, 15, 21538-21553.	4.1	19
150	Electromechanical properties of electrostrictive CeO2:Gd membranes: Effects of frequency and temperature. Applied Physics Letters, 2017, 110, .	3.3	19
151	Influence of irradiation on the switching behavior in PZT thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 141-145.	3.5	18
152	Self-similar surface nanodomain structures induced by laser irradiation in lithium niobate. Physics of the Solid State, 2008, 50, 717-723.	0.6	18
153	Abnormal Domain Growth in Lithium Niobate with Surface Layer Modified by Proton Exchange. Ferroelectrics, 2010, 398, 108-114.	0.6	18
154	Domain Nanotechnology in Ferroelectric Single Crystals: Lithium Niobate and Lithium Tantalate Family. Ferroelectrics, 2013, 443, 71-82.	0.6	18
155	pHLIP-modified magnetic nanoparticles for targeting acidic diseased tissue. RSC Advances, 2016, 6, 60196-60199.	3.6	18
156	Temperature Effect on the Stability of the Polarized State Created by Local Electric Fields in Strontium Barium Niobate Single Crystals. Scientific Reports, 2017, 7, 125.	3.3	17
157	Direct observation of the domain kinetics during polarization reversal of tetragonal PMN-PT crystal. Applied Physics Letters, 2018, 113, .	3.3	17
158	Domain structure formation by local switching in the ion sliced lithium niobate thin films. Applied Physics Letters, 2020, 116, .	3.3	17
159	Forward growth of ferroelectric domains with charged domain walls. Local switching on non-polar cuts. Journal of Applied Physics, 2021, 129, .	2.5	17
160	Elastic light scattering as a probe for detail in situ investigations of domain and phase evolution. Ferroelectrics, 1995, 169, 63-73.	0.6	16
161	Transient current during switching in increasing electric field as a basis for a new testing method. Integrated Ferroelectrics, 1995, 10, 223-230.	0.7	16
162	Fractal-cluster kinetics in phase transformations in the relaxor ceramic PLZT. Physics of the Solid State, 1999, 41, 453-456.	0.6	16

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163	Domain Kinetics in Congruent and Stoichiometric Lithium Niobate. Ferroelectrics, 2002, 269, 189-194.	0.6	16
164	Characterization of Bulk Screening in Single Crystals of Lithium Niobate and Lithium Tantalate Family. Ferroelectrics, 2008, 374, 1-13.	0.6	16
165	Lithium niobate and lithium tantalate-based piezoelectric materials. , 2010, , 204-238.		16
166	Formation of Nanodomain Structure in Front of the Moving Domain Wall in Lithium Niobate Single Crystal Modified by Proton Exchange. Ferroelectrics, 2013, 442, 82-91.	0.6	16
167	Ferroelectric domain triggers the charge modulation in semiconductors (invited). Journal of Applied Physics, 2014, 116, 066817.	2.5	16
168	Self-organizing formation of dendrite domain structures in lithium niobate and lithium tantalate crystals. Ferroelectrics, 2016, 500, 76-89.	0.6	16
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