

Vladimir Shvartsman

List of Publications by Year in descending order

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206
papers

7,110
citations

66234

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79
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210
all docs

210
docs citations

210
times ranked

6033
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-Free Relaxor Ferroelectrics. Journal of the American Ceramic Society, 2012, 95, 1-26.	1.9	792
2	Temperature-Insensitive (K,Na)NbO ₃ -Based Lead-Free Piezoactuator Ceramics. Advanced Functional Materials, 2013, 23, 4079-4086.	7.8	494
3	Large bulk polarization and regular domain structure in ceramic BiFeO ₃ . Applied Physics Letters, 2007, 90, 172115.	1.5	225
4	Diffuse phase transition in BaTi _{1-x} Sr _x O ₃ ceramics: An intermediate state between ferroelectric and relaxor behavior. Journal of Applied Physics, 2006, 99, 124111.	1.1	201
5	Domain structure of 0.8Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.2PbTiO ₃ studied by piezoresponse force microscopy. Physical Review B, 2004, 69, .	1.1	183
6	Crystal structure and multiferroic properties of Gd-substituted BiFeO ₃ . Applied Physics Letters, 2008, 93, .	1.5	172
7	Dielectric Response: Answer to Many Questions in the Methylammonium Lead Halide Solar Cell Absorbers. Advanced Energy Materials, 2017, 7, 1700600.	10.2	163
8	Doping strategies for increased performance in BiFeO ₃ . Journal of Magnetism and Magnetic Materials, 2009, 321, 1692-1698.	1.0	161
9	Coexistence of Antiferromagnetic and Spin Cluster Glass Order in the Magnetoelectric Relaxor Multiferroic $\text{PbFe}_{0.5}\text{Nb}_{1.5}\text{O}_3$. Physical Review Letters, 2010, 105, 257202.	2.9	156
10	(Sr,Mn)TiO ₃ : A Magnetoelectric Multiglass. Physical Review Letters, 2008, 101, 165704.	2.9	151
11	Effect of Gd substitution on the crystal structure and multiferroic properties of BiFeO ₃ . Acta Materialia, 2009, 57, 5137-5145.	3.8	144
12	Strong electrocaloric effect in lead-free 0.65Ba(Zr _{0.2} Ti _{0.8})O ₃ -0.35(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics obtained by direct measurements. Applied Physics Letters, 2015, 106, .	1.5	131
13	Nanopolar structure in $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_6\text{O}_{16}$. Applied Physics Letters, 2010, 96, 113101.	1.1	123
14	Evolution of nanodomains in 0.9PbMg _{1/3} Nb _{2/3} O ₃ -0.1PbTiO ₃ single crystals. Journal of Applied Physics, 2007, 101, 064108.	1.1	99
15	Magnetoelectric coupling on multiferroic cobalt ferrite-barium titanate ceramic composites with different connectivity schemes. Acta Materialia, 2015, 90, 1-9.	3.8	97
16	Effect of Sm substitution on ferroelectric and magnetic properties of BiFeO ₃ . Scripta Materialia, 2010, 62, 238-241.	2.6	95
17	Nanoscale domains and local piezoelectric hysteresis in Pb(Zn _{1/3} Nb _{2/3})O ₃ -4.5%PbTiO ₃ single crystals. Applied Physics Letters, 2003, 83, 4232-4234.	1.5	92
18	Polar nanodomains and local ferroelectric phenomena in relaxor lead lanthanum zirconate titanate ceramics. Applied Physics Letters, 2005, 86, 202907.	1.5	92

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19	Large off-diagonal magnetoelectric coupling in the quantum paraelectric antiferromagnet EuTiO_3 . Physical Review B, 2010, 81, .	1.1	91
20	Anomalous polarization inversion in ferroelectrics via scanning force microscopy. Nanotechnology, 2007, 18, 095502.	1.3	90
21	Mesoscale Domains and Nature of the Relaxor State by Piezoresponse Force Microscopy. Annual Review of Materials Research, 2013, 43, 423-449.	4.3	87
22	Domain populations in lead zirconate titanate thin films of different compositions via piezoresponse force microscopy. Nanotechnology, 2005, 16, 2587-2595.	1.3	83
23	Two-Dimensional Ising Model Criticality in a Three-Dimensional Uniaxial Relaxor Ferroelectric with Frozen Polar Nanoregions. Physical Review Letters, 2006, 97, 065702.	2.9	80
24	Crossover from ferroelectric to relaxor behavior in $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ solid solutions. Phase Transitions, 2008, 81, 1013-1021.	0.6	74
25	Converse magnetoelectric effect in CoFe_2O_4 BaTiO_3 composites with a core-shell structure. Smart Materials and Structures, 2011, 20, 075006.	1.8	74
26	Effect of particle size on ferroelectric and magnetic properties of BiFeO_3 nanopowders. Nanotechnology, 2013, 24, 355701.	1.3	72
27	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. Journal of Applied Physics, 2014, 115, .	1.1	71
28	The Dielectric Relaxation in Solid Solutions $\text{BaTi}_{1-x}\text{Zr}_x\text{O}_3$. Ferroelectrics, 2009, 379, 77-85.	0.3	70
29	Local hysteresis and grain size effect in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ PbTiO_3 thin films. Applied Physics Letters, 2002, 81, 117-119.	1.5	68
30	Superconducting quantum interference device setup for magnetoelectric measurements. Review of Scientific Instruments, 2007, 78, 106105.	0.6	68
31	Stress-induced suppression of piezoelectric properties in PbTiO_3 :La thin films via scanning force microscopy. Applied Physics Letters, 2003, 82, 2127-2129.	1.5	67
32	Nonlinear local piezoelectric deformation in ferroelectric thin films studied by scanning force microscopy. Journal of Applied Physics, 2005, 97, 104105.	1.1	64
33	Relaxation of induced polar state in relaxor $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ thin films studied by piezoresponse force microscopy. Applied Physics Letters, 2005, 86, 222907.	1.5	63
34	Electrocaloric Effect in $\text{Ba}(\text{Zr,Ti})\text{O}_3$ $(\text{Ba,Ca})\text{TiO}_3$ Ceramics Measured Directly. Journal of the American Ceramic Society, 2016, 99, 4022-4030.	1.9	59
35	Spin-lattice coupling in multiferroic $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ thin films. Applied Physics Letters, 2009, 94, .	1.5	54
36	Electrocaloric effect in BaTiO_3 at all three ferroelectric transitions: Anisotropy and inverse caloric effects. Physical Review B, 2017, 96, .	1.1	53

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37	Nanoscale characterization of polycrystalline ferroelectric materials for piezoelectric applications. Journal of Electroceramics, 2007, 19, 83-96.	0.8	50
38	A new (Ba, Ca) (Ti, Zr)O ₃ based multiferroic composite with large magnetoelectric effect. Scientific Reports, 2016, 6, 32164.	1.6	49
39	Ferroelectric and dielectric anisotropy in high-quality SrBi ₂ Ta ₂ O ₉ single crystals. Applied Physics Letters, 2004, 85, 5667-5669.	1.5	46
40	Fatigue-induced evolution of domain structure in ferroelectric lead zirconate titanate ceramics investigated by piezoresponse force microscopy. Journal of Applied Physics, 2005, 98, 094109.	1.1	44
41	Multiglass order and magnetoelectricity in Mn ²⁺ doped incipient ferroelectrics. European Physical Journal B, 2009, 71, 407-410.	0.6	44
42	Structural, ferroelectric and magnetic properties of Bi _{0.85} Sm _{0.15} FeO ₃ perovskite. Crystal Research and Technology, 2011, 46, 238-242.	0.6	43
43	The Direct and the Converse Magnetoelectric Effect in Multiferroic Cobalt Ferrite-Barium Titanate Ceramic Composites. Journal of the American Ceramic Society, 2016, 99, 3623-3631.	1.9	43
44	Direct measurement of electrocaloric effect in lead-free Ba(Sn _x Ti _{1-x})O ₃ ceramics. Applied Physics Letters, 2017, 111, .	1.5	43
45	Effect of dopants on the electrocaloric effect of 0.92 Pb(Mg _{1/3} Nb _{2/3})O ₃ –0.08 PbTiO ₃ ceramics. Journal of the European Ceramic Society, 2015, 35, 2065-2071.	2.8	42
46	Crystal structure and magnetic properties of Bi _{0.8} (Gd _{1-x} Ba _x) _{0.2} FeO ₃ (x= 0, 0.5, 1) multiferroics. Journal Physics D: Applied Physics, 2009, 42, 045418.	1.3	40
47	Ferroelectric Domains in Sr _x Ba _{1-x} Nb ₂ O ₆ Single Crystals (0.4 Å– 0.75). Ferroelectrics, 2008, 376, 1-8.	0.3	39
48	Origins of the Inverse Electrocaloric Effect. Energy Technology, 2018, 6, 1491-1511.	1.8	39
49	Investigation of fatigue mechanism in ferroelectric ceramic via piezoresponse force microscopy. Journal of the European Ceramic Society, 2005, 25, 2559-2561.	2.8	38
50	Phase transitions, screening and dielectric response of CsPbBr ₃ . Journal of Materials Chemistry A, 2020, 8, 14015-14022.	5.2	37
51	Magnetoelectric Effect in (CoFe) ₂ O ₄ -BaTiO ₃ (20/80) Composite Ceramics Prepared by the Organosol Route. Ferroelectrics, 2013, 448, 77-85.	0.3	36
52	Poling and annealing of piezoelectric Poly(Vinylidene fluoride) micropillar arrays. Materials Chemistry and Physics, 2020, 239, 122035.	2.0	35
53	(Sr,Mn)TiO ₃ a magnetoelectrically coupled multiglass. Journal of Physics Condensed Matter, 2008, 20, 434216.	0.7	34
54	Evolution of the Polar Structure in Relaxor Ferroelectrics Close to the Curie Temperature Studied by Piezoresponse Force Microscopy. Ferroelectrics, 2008, 373, 77-85.	0.3	33

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55	Nanoscale mapping of heterogeneity of the polarization reversal in lead-free relaxor ferroelectric ceramic composites. <i>Nanoscale</i> , 2016, 8, 2168-2176.	2.8	33
56	Local manifestations of a static magnetoelectric effect in nanostructured BaTiO ₃ /BaFe ₁₂ O ₉ composite multiferroics. <i>Nanoscale</i> , 2015, 7, 4489-4496.	2.8	32
57	Cobalt Ferrite/Barium Titanate Core/Shell Nanoparticles. <i>Ferroelectrics</i> , 2012, 438, 115-122.	0.3	31
58	Low-temperature synthesis of crystalline BaTiO ₃ nanoparticles by one-step organosol precipitation. <i>Journal of Materials Chemistry</i> , 2012, 22, 17573.	6.7	31
59	Laser Fragmentation Synthesis of Colloidal Bismuth Ferrite Particles. <i>Nanomaterials</i> , 2020, 10, 359.	1.9	31
60	Roughness in GaN/InGaN films and multilayers determined with Rutherford backscattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 479-497.	0.6	30
61	Piezoelectric Response in Hybrid Micropillar Arrays of Poly(Vinylidene Fluoride) and Reduced Graphene Oxide. <i>Polymers</i> , 2019, 11, 1065.	2.0	28
62	Relaxor Behavior of BaBi ₂ Ta ₂ O ₉ and BaBi ₂ Nb ₂ O ₉ Ceramics. <i>Ferroelectrics</i> , 2003, 296, 187-197.	0.3	28
63	Domainlike precursor clusters in the paraelectric phase of the uniaxial relaxor Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ . <i>Applied Physics Letters</i> , 2006, 89, 212901.	1.5	27
64	Aging, rejuvenation, and memory effects in the domain state of Sr _{0.75} Ba _{0.25} Nb ₂ O ₆ . <i>Phase Transitions</i> , 2007, 80, 131-140.	0.6	27
65	Study of Ni-Mn-Ca phase formation by magnetron sputtering film deposition at low temperature onto Si substrates and LaNiO ₃ ·Pb(Ti,Zr)O ₃ buffer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 6-10.	0.9	27
66	State transition and electrocaloric effect of BaZrTi _{1-x} O ₃ : Simulation and experiment. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	27
67	Ferroelectric-to-relaxor transition behaviour of BaTiO ₃ ceramics doped with La(Mg _{1/2} Ti _{1/2})O ₃ . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 2785-2794.	0.7	26
68	Measuring the magnetoelectric effect across scales. <i>GAMM Mitteilungen</i> , 2015, 38, 25-74.	2.7	26
69	Strong converse magnetoelectric effect in (Ba,Ca)(Zr,Ti)O ₃ - NiFe ₂ O ₄ multiferroics: A relationship between phase-connectivity and interface coupling. <i>Acta Materialia</i> , 2018, 144, 305-313.	3.8	26
70	ENHANCED MAGNETIZATION IN BiFeO ₃ /BaTiO ₃ MULTILAYERS: AN INTERFACE EFFECT?. <i>Integrated Ferroelectrics</i> , 2008, 100, 165-176.	0.3	25
71	Effect of Mn and Ba Codoping on a Magnetic Spin Cycloid of Multiferroic Bismuth Ferrite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22266-22277.	1.5	24
72	Magnetic and polar phases and dynamical clustering in multiferroic layered solid solutions CuCr _{1-x} Mn _x In ₂ magnetic and polar phases and dynamical clustering in multiferroic layered solid solutions CuCr _{1-x} Mn _x In ₂ magnetic and polar phases and dynamical clustering in multiferroic layered solid solutions		

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73	Quantitative phase separation in multiferroic Bi _{0.88} Sr _{0.12} FeO ₃ ceramics via piezoresponse force microscopy. Journal of Applied Physics, 2015, 118, .	1.1	23
74	Investigation of the ferroelectric-relaxor transition in PbMg _{1/3} Nb _{2/3} O ₃ -PbTiO ₃ ceramics by piezoresponse force microscopy. Journal of Applied Physics, 2010, 108, 042007.	1.1	22
75	Rotomagnetic coupling in fine-grained multiferroic BiFeO_3 : Theory and experiment. Physical Review B, 2018, 97, .	1.1	22
76	Dielectric, Ferroelectric, and Piezoelectric Investigation of Polymer-Based P(VDF-TrFE) Composites. Physica Status Solidi (B): Basic Research, 2018, 255, 1700196.	0.7	22
77	MAGNETOELECTRIC Cr ₂ O ₃ FOR SPINTRONIC APPLICATIONS. Integrated Ferroelectrics, 2008, 99, 69-76.	0.3	21
78	POLAR STRUCTURES OF PbMg _{1/3} Nb _{2/3} O ₃ -PbTiO ₃ RELAXORS: PIEZORESPONSE FORCE MICROSCOPY APPROACH. Journal of Advanced Dielectrics, 2012, 02, 1241003.	1.5	21
79	From mesoscopic to global polar order in the uniaxial relaxor ferroelectric Sr _{0.8} Ba _{0.2} Nb ₂ O ₆ . Applied Physics Letters, 2012, 100, 052903.	1.5	20
80	Macroscopic and Nanoscopic Polarization Relaxation Kinetics in Lead-Free Relaxors Bi _{1/2} Na _{1/2} TiO ₃ . Journal of the American Ceramic Society, 2014, 97, 3904-3912.	1.5	20
81	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, .	1.1	20
82	Modified Differential Scanning Calorimeter for Direct Electrocaloric Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1690-1696.	1.7	20
83	Piezoelectric nonlinearity of Pb(Zr,Ti)O ₃ thin films probed by scanning force microscopy. Applied Physics Letters, 2002, 81, 3025-3027.	1.5	19
84	Epitaxial growth and magnetoelectric relaxor behavior in multiferroic 0.8Pb(Fe _{1/2} Nb _{1/2})O ₃ -0.2Pb(Mg _{1/2} W _{1/2})O ₃ thin films. Applied Physics Letters, 2009, 95, 132507.	1.5	19
85	Multiferroic and magnetoelectric materials—novel developments and perspectives. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2228-2232.	1.7	19
86	Nanocrystalline Barium Strontium Titanate Ceramics Synthesized via the Organosol Route and Spark Plasma Sintering. Journal of the American Ceramic Society, 2014, 97, 2139-2146.	1.9	19
87	Nanoscale Characterization of Ferroelectric Materials for Piezoelectric Applications. Ferroelectrics, 2006, 341, 3-19.	0.3	18
88	Coexistence of spontaneous ferroelectricity and weak ferromagnetism in Bi _{0.8} Pb _{0.2} FeO _{2.9} perovskite. Journal of Physics Condensed Matter, 2008, 20, 155207.	0.7	18
89	Polarization reversal in organic-inorganic ferroelectric composites: Modeling and experiment. Applied Physics Letters, 2015, 107, .	1.5	18
90	Maxwell relation, giant (negative) electrocaloric effect, and polarization hysteresis. Applied Physics Letters, 2021, 118, .	1.5	18

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91	Spin cluster glass and magnetoelectricity in Mn-doped KTaO ₃ . Journal of Applied Physics, 2010, 107, .	1.1	17
92	Local ferroelectric properties in polyvinylidene fluoride/barium lead zirconate titanate nanocomposites: Interface effect. Journal of Applied Physics, 2013, 114, .	1.1	17
93	Time-Resolved X-Ray Diffraction Reveals the Hidden Mechanism of High Piezoelectric Activity in a Uniaxial Ferroelectric. Physical Review Letters, 2015, 114, 097601.	2.9	17
94	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.	1.6	17
95	Quasi-adiabatic calorimeter for direct electrocaloric measurements. Review of Scientific Instruments, 2018, 89, 034903.	0.6	17
96	Evolution of nanodomains in the uniaxial relaxor Sr _{0.61} /Ba _{0.39} /Nb ₂ /O ₆ :Ce. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2275-2279.	1.7	16
97	Thin Cr ₂ O ₃ Films for Magnetoelectric Data Storage Deposited by Reactive E-beam Evaporation. Ferroelectrics, 2008, 370, 147-152.	0.3	16
98	Li and Ta-modified KNN piezoceramic fibers for vibrational energy harvesters. Journal of the European Ceramic Society, 2021, 41, 7662-7669.	2.8	16
99	Local electromechanical properties of ferroelectric materials for piezoelectric applications. Materials Research Society Symposia Proceedings, 2004, 838, 205.	0.1	15
100	Ferroelectric Phase Transitions and Electroconducting Properties of Ceramic BIMEVOX Solid Solutions (Me = La, Zr). Ferroelectrics, 2009, 391, 3-11.	0.3	15
101	Effects of selenization time and temperature on the growth of Cu ₂ ZnSnSe ₄ thin films on a metal substrate for flexible solar cells. Solar Energy, 2019, 178, 142-149.	2.9	15
102	Analytical description of the size effect on pyroelectric and electrocaloric properties of ferroelectric nanoparticles. Physical Review Materials, 2019, 3, .	0.9	15
103	Spontaneous and induced surface piezoresponse in PbMg _{1/3} Nb _{2/3} O ₃ single crystals. Zeitschrift für Kristallographie, 2011, 226, 108-112.	1.1	14
104	Multiferroic and magnetoelectric materials – Developments and perspectives. EPJ Web of Conferences, 2012, 29, 00046.	0.1	14
105	Sequential piezoresponse force microscopy and the “small-data” problem. Npj Computational Materials, 2018, 4, .	3.5	14
106	Frequency-Dependent Electromechanical Response in Ferroelectric Materials Measured via Piezoresponse Force Microscopy. Materials Research Society Symposia Proceedings, 2003, 784, 1131.	0.1	13
107	Piezoelectric Properties of Self-Polarized Pb(ZrxTi1-x)O ₃ Thin Films Probed by Scanning Force Microscopy. Integrated Ferroelectrics, 2005, 69, 103-111. Phase diagram of mixed Cu(In ₂ S ₃) ₂ . Physical Review B, 2012, 85, .	0.3	13
108	Phase diagram of mixed Cu(In ₂ S ₃) ₂ . Physical Review B, 2012, 85, .	1.1	13

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109	Dynamic pyroelectric response of composite based on ferroelectric copolymer of poly(vinylidene fluoride)/polymer. <i>Physica A: Materials Science and Processing</i> , 2015, 121, 311-316.	1.1	12
110	Ultrasonic spectroscopy of copolymer based P(VDF-TrFE) composites with fillers on lead zirconate titanate basis. <i>Polymer Testing</i> , 2016, 53, 211-216.	2.3	12
111	Local Electromechanical Properties of PbMg _{1/3} Nb _{2/3} O ₃ Thin Films Studied by Piezoelectric Force Microscopy. <i>Ferroelectrics</i> , 2004, 302, 323-326.	0.3	11
112	Comment on "The Origin of Magnetism in Mn-Doped SrTiO ₃ ". <i>Advanced Functional Materials</i> , 2013, 23, 2229-2230.	7.8	11
113	Macroscopic and local piezoelectric properties of Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ single crystals exhibiting giant piezoelectric response. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	11
114	Nanoscale Investigation of Polycrystalline Ferroelectric Materials via Piezoresponse Force Microscopy. <i>Springer Series in Materials Science</i> , 2011, , 409-468.	0.4	10
115	Temperature dependence of the local piezoresponse in (K,Na)NbO ₃ -based ceramics with large electromechanical strain. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	10
116	Evolution of poled state in P(VDF-TrFE)/(Pb,Ba)(Zr,Ti)O ₃ composites probed by temperature dependent Piezoresponse and Kelvin Probe Force Microscopy. <i>Scientific Reports</i> , 2018, 8, 378.	1.6	10
117	Ferromagnetic-like behavior of Bi _{0.9} La _{0.1} FeO ₃ -KBr nanocomposites. <i>Scientific Reports</i> , 2019, 9, 10417.	1.6	10
118	Interplay of domain structure and phase transitions: theory, experiment and functionality. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 073002.	0.7	10
119	Effect of Al ³⁺ modification on cobalt ferrite and its impact on the magnetoelectric effect in BCZT-CFO multiferroic composites. <i>Journal of Materials Science</i> , 2017, 52, 13402-13413.	1.7	9
120	Effect of substrate orientation on local magnetoelectric coupling in bi-layered multiferroic thin films. <i>Nanoscale</i> , 2018, 10, 20618-20627.	2.8	9
121	Role of cooperative factors in the photocatalytic activity of Ba and Mn doped BiFeO ₃ nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 5830-5840.	2.2	9
122	Thermal behaviour of polarization in relaxor ferroelectrics Pb(Mg _{1/2} W _{1/2}) _{1-x} Ti _x O ₃ . <i>Ferroelectrics</i> , 2001, 257, 75-84.	0.3	8
123	Magnetodielectric effect in relaxor/ferrimagnetic composites. <i>Journal of Alloys and Compounds</i> , 2015, 640, 462-467.	2.8	8
124	Hybrid biodegradable electrospun scaffolds based on poly(l-lactic acid) and reduced graphene oxide with improved piezoelectric response. <i>Polymer Journal</i> , 2022, 54, 1237-1252.	1.3	8
125	Ferroelectric domains and twinning in high-quality SrBi ₂ Ta ₂ O ₉ single crystals. <i>Applied Physics Letters</i> , 2006, 88, 062903.	1.5	7
126	Investigation of Dielectric and Noise Properties of the Multiferroic Composite BaTiO ₃ with CoFe ₂ O ₄ . <i>Ferroelectrics</i> , 2011, 417, 25-32.	0.3	7

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127	The phenomenon of bitumen "bee" structures " bulk or surface layer " a closer look. International Journal of Pavement Engineering, 2022, 23, 1768-1776.	2.2	7
128	Spray-flame synthesis of BaTi _{1-x} Zr _x O ₃ nanoparticles for energy storage applications. Ceramics International, 2020, 46, 13915-13924.	2.3	7
129	Influence of calcination and sintering temperatures on dielectric and magnetic properties of Pb(Fe _{0.5} Nb _{0.5})O ₃ ceramics synthesized by the solid state method. Ceramics International, 2021, 47, 23396-23403.	2.3	7
130	Nanoscale properties of ferroelectric ultrathin SBT films. Journal of the European Ceramic Society, 2004, 24, 319-323.	2.8	6
131	Direct characterization of nanoscale domain switching and local piezoelectric loops of (Pb,La)TiO ₃ thin films by piezoresponse force microscopy. Applied Physics A: Materials Science and Processing, 2005, 81, 1207-1212.	1.1	6
132	Synthesis and Magnetic Properties of Cobalt Ferrite Nanoparticles. Materials Research Society Symposia Proceedings, 2012, 1398, 1.	0.1	6
133	Exchange bias effect in bulk multiferroic BiFe _{0.5} Sc _{0.5} O ₃ . AIP Advances, 2020, 10, 045102.	0.6	6
134	Effect of Composition on Polarization Hysteresis and Energy Storage Ability of P(VDF-TrFE-CFE) Relaxor Terpolymers. Polymers, 2021, 13, 1343.	2.0	6
135	Phase relations and dielectric properties of modified ceramics in the system PbZrO ₃ -Pb(Mg _{0.5} W _{0.5})O ₃ . Ferroelectrics, 2000, 238, 123-130.	0.3	5
136	Investigation of Domain Structure of SrBi ₂ Ta ₂ O ₉ Single Crystals via Polarized Optical and Piezoelectric Force Microscopy. Integrated Ferroelectrics, 2004, 62, 215-220.	0.3	5
137	Polar Structures in Relaxors by Piezoresponse Force Microscopy. , 2010, , 345-383.		5
138	Weak ferromagnetism and short range polar order in NaMnF ₃ thin films. Applied Physics Letters, 2017, 110, 092901.	1.5	5
139	Fixed volume effect on polar properties and phase diagrams of ferroelectric semi-ellipsoidal nanoparticles. European Physical Journal B, 2018, 91, 1.	0.6	5
140	Phase Transitions in the Metastable Perovskite Multiferroics BiCrO ₃ and BiCr _{0.9} Sc _{0.1} O ₃ : A Comparative Study. Inorganic Chemistry, 2020, 59, 8727-8735.	1.9	5
141	Domain Structure, Local Hysteresis and Ferroelectric Phase Transition in (CH ₃ NH ₃) ₅ Bi ₂ Br ₁₁ (MAPBBB) Single Crystals. Ferroelectrics, 2003, 295, 121-129.	0.3	4
142	Investigation of Switching Behaviour in PbZr _{0.55} Ti _{0.45} O ₃ Thin Films by Means of Scanning Probe Microscopy. Ferroelectrics, 2003, 286, 291-299.	0.3	4
143	Magnetoelectricity in multiferroically composed multilayers and multiglasses. Journal of Magnetism and Magnetic Materials, 2009, 321, 1785-1789.	1.0	4
144	Phase Transitions in Layered Semiconductor - Ferroelectrics. , 0, , .		4

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145	The effect of silicon-substrate orientation on the local piezoelectric characteristics of LiNbO ₃ films. Journal of Surface Investigation, 2016, 10, 742-747.	0.1	4
146	A Piezoresponse Force Microscopy Study of CaxBa _{1-x} Nb ₂ O ₆ Single Crystals. Materials, 2017, 10, 1032.	1.3	4
147	Stress induced magnetic-domain evolution in magnetoelectric composites. Nanotechnology, 2018, 29, 255702.	1.3	4
148	Magnetostriction via Magnetoelectricity: Using Magnetoelectric Response to Determine the Magnetostriction Characteristics of Composite Multiferroics. Technical Physics Letters, 2019, 45, 1152-1154.	0.2	4
149	Microstructure and Local Piezoelectric Properties of (Pb,Ca)TiO ₃ Thin Films. Ferroelectrics, 2003, 296, 229-237.	0.3	4
150	Band Gap of Pb(Fe _{0.5} Nb _{0.5})O ₃ Thin Films Prepared by Pulsed Laser Deposition. Materials, 2021, 14, 6841.	1.3	4
151	Strong magnetoelectric coupling at an atomic nonmagnetic electromagnetic probe in bismuth ferrite. Physical Review B, 2022, 105, .	1.1	4
152	High Energy Storage Density in Nanocomposites of P(VDF-TrFE-CFE) Terpolymer and BaZr _{0.2} Ti _{0.8} O ₃ Nanoparticles. Materials, 2022, 15, 3151.	1.3	4
153	PbZrO ₃ -CdTiO ₃ solid solutions. Inorganic Materials, 2000, 36, 729-733.	0.2	3
154	Phase relations and ferroelectric properties of Pb(Zr, Sn, Ti)O ₃ ceramics. Ferroelectrics, 2001, 258, 13-20.	0.3	3
155	Ferroelectric Domain Structure and Local Piezoelectric Properties of Sol-Gel Derived Pb(Zr _{1-x} Ti _x)O ₃ Films. Materials Research Society Symposia Proceedings, 2003, 784, 3101.	0.1	3
156	Dielectric and Relaxor Properties of the Lead-Containing Ferroelectric Ceramics. Ferroelectrics, 2003, 285, 251-257.	0.3	3
157	Investigation of Dielectric and Ferroelectric Properties of the Pb(Sn,Zr,Ti)O ₃ Ceramics. Ferroelectrics, 2004, 299, 145-148.	0.3	3
158	Dielectric and Piezoelectric Properties of Pb(Mg _{1/3} Nb _{2/3})O ₃ –PbTiO ₃ –Pb(Mg _{1/2} W _{1/2})O ₃ Ceramics. Inorganic Materials, 2004, 40, 998-1005.	0.2	3
159	Dielectric and Piezoelectric Properties of the Lead-Based Perovskite Ceramics. Ferroelectrics, 2004, 313, 129-133.	0.3	3
160	Magnetic Anomaly and Dielectric Tunability of (Sr,Mn)TiO ₃ Thin Films. Ferroelectrics, 2012, 426, 274-281.	0.3	3
161	Magnetoelectric properties of 0.2CoFe ₂ O ₄ -0.8BaTiO ₃ composite prepared by organic method. , 2012, , .		3
162	The Microstructure and Local Piezoelectric Response in Polymer Nanocomposites with Different Ferroelectric Crystalline Additions. Materials Research Society Symposia Proceedings, 2013, 1556, .	0.1	3

#	ARTICLE	IF	CITATIONS
163	Dielectric properties of composite based on ferroelectric copolymer of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 74 Advanced Dielectrics, 2017, 07, 1720003.	1.5	3
164	Solar Cells: Dielectric Response: Answer to Many Questions in the Methylammonium Lead Halide Solar Cell Absorbers (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	10.2	3
165	Tuning the optical, structural and multiferroic properties of Bismuth Ferrite (BiFeO ₃) Nanoparticles by Doping with Ba. , 2019, , .		3
166	Comment on "Giant pyroelectric energy harvesting and a negative electrocaloric effect in multilayered nanostructures" by G. Vats, A. Kumar, N. Ortega, C. R. Bowen and R. S. Katiyar, Energy Environ. Sci., 2016, 9, 1335. Energy and Environmental Science, 2021, 14, 1612-1614.	15.6	3
167	Dependence of the magnetoelectric coupling on elastic and dielectric properties of two-phase multiferroic composites. Journal of Materials Science, 2021, 56, 14978-14988.	1.7	3
168	Spontaneous and Induced Ferroelectricity in the BiFe _{1-x} Sc _x O ₃ Perovskite Ceramics. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100173.	0.8	3
169	The orthorhombic-tetragonal morphotropic phase boundary in high-pressure synthesized BiMg _{0.5} Ti _{0.5} O ₃ –BiZn _{0.5} Ti _{0.5} O ₃ perovskite solid solutions. Journal of Physics and Chemistry of Solids, 2022, 161, 110392.	1.9	3
170	Magnetic Behaviour of Perovskite Compositions Derived from BiFeO ₃ . Magnetochemistry, 2021, 7, 151.	1.0	3
171	Relaxor behaviour of solid solutions of the system Pb[(Mg _{0.5} W _{0.5}) _{1-x} Ti _x]O ₃ . Ferroelectrics, 1999, 235, 263-268.	0.3	2
172	Thermal Expansion and Polarization Changes at Phase Transitions in the Perovskite Pb[Zr _{1-x} (Fe _{0.5} Nb) _x]O ₃ Tj ETQq0 0 0 rgBT /Overlock 2	0.3	2
173	Nanoscale investigation of polar structure of (1-x)PbMg _{1/3} Nb _{2/3} O ₃ -xPbTiO ₃ single crystals. Materials Research Society Symposia Proceedings, 2003, 785, 4111.	0.1	2
174	X-Ray Characterization and Domain Structure of High-Quality SrBi ₂ Ta ₂ O ₉ Single-Crystals Grown by Self-Flux Solution Method. Integrated Ferroelectrics, 2004, 68, 259-268.	0.3	2
175	Electrocaloric effect in P(VDF-TrFE)/ barium zirconium titanate composites. , 2019, , .		2
176	Synthesis and Properties of Modified Potassium-Sodium Niobate Ceramics. Russian Journal of Inorganic Chemistry, 2021, 66, 1257-1263.	0.3	2
177	Phase transitions in the system PbZrO ₃ -Pb(Mg _{0.5} W _{0.5})O ₃ . Ferroelectrics, 1997, 199, 245-248.	0.3	1
178	Relaxor Behavior of Pb[(Mg _{0.5} W _{0.5}) _{1-x} Ti _x] _{1-y} Sn _y O ₃ Ceramics. Inorganic Materials, 2002, 38, 966-969.	0.2	1
179	Direct observation of polar nanostructures in PLZT ceramics for electrooptic applications. Materials Research Society Symposia Proceedings, 2004, 838, 169.	0.1	1
180	Exchange bias phenomenon in (Nd _{1-x} Y _x) _{2/3} Ca _{1/3} MnO ₃ (x = 0, 0.1) perovskites. Low Temperature Physics, 2015, 41, 1001-1005.	0.2	1

#	ARTICLE	IF	CITATIONS
181	Direct electrocaloric measurements using a differential scanning calorimeter. , 2015, , .		1
182	Two-phase dielectric polar structures in 0.1NBT-0.6ST-0.3PT solid solutions. Acta Materialia, 2018, 153, 117-125.	3.8	1
183	Ferroelectric nanocomposites: Influence of nanoparticle size distribution on electrocaloric conversion parameters. , 2020, , .		1
184	Development of a 3D Printing Technique for PVDF Thin Films for Sensor Elements of Electronic Devices. , 2020, , .		1
185	The Influence of the Distribution Function of Ferroelectric Nanoparticles Sizes on Their Electrocaloric and Pyroelectric Properties. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2445-2453.	1.7	1
186	Reply to the Comment on "Phase transitions, screening and dielectric response of CsPbBr ₃ by Å. Svirskas, S. Balčiūnas, M. Aičinas, G. Usevičius, M. Kinka, M. Velička, D. Kubicki, M. E. Castillo, A. Karabanov, V. Shvartsman, M. R. Soares, V. Aablinskas, A. N. Salak, D. C. Lupascu and J. Banyš, J. Mater. Chem. A, 2020, 8, 14015. Journal of Materials Chemistry A, 2021, 9, 11453-11455.	5.2	1
187	Directly Measured Electrocaloric Effect in Relaxor Polymer Nanocomposites. , 2021, , .		1
188	Magnetic Properties of the Bi _{0.65} La _{0.35} Fe _{0.5} Sc _{0.5} O ₃ Perovskite. Acta Physica Polonica A, 2017, 131, 1069-1071.	0.2	1
189	Domain Structure, Local Hysteresis and Ferroelectric Phase Transition in (CH ₃ NH ₃) ₅ Bi ₂ Br ₁₁ (MAPBBB) Single Crystals. Ferroelectrics, 2003, 295, 121-129.	0.3	1
190	NANOSCALE REGIONS IN SOLID SOLUTIONS BASED ON PbZrO ₃ . , 1997, , .		0
191	Phase states and ferroelectric properties of Pb(Zr, Sn, Ti)O ₃ ceramic. Technical Physics, 2000, 45, 1417-1421.	0.2	0
192	Local Electromechanical Properties and Grain Size Effects in Ferroelectric Relaxors Studied by Scanning Piezoelectric Microscopy. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
193	Nanoscale Ferroelectric Properties of PZN-PT Single Crystals Studied by Scanning Force Microscopy. Materials Research Society Symposia Proceedings, 2003, 785, 621.	0.1	0
194	Imaginary Time Schrödinger Treatment for Microstructure Modeling in Ferroelectrics. Integrated Ferroelectrics, 2004, 64, 51-59.	0.3	0
195	Ferroelectric Properties of BaTiO ₃ Doped with La(Mg _{1/2} Ti _{1/2})O ₃ . Ferroelectrics, 2004, 302, 299-302.	0.3	0
196	Processing, Investigation of Structure, Microstructure, Dielectric and Piezoelectric Properties of PbMg _{1/3} Nb _{2/3} O ₃ -PbTiO ₃ Ceramics Doped with the PbMg _{1/2} W _{1/2} O ₃ Additive. Ferroelectrics, 2005, 314, 27-35.	0.3	0
197	LOCAL POLARIZATION IN POLYMER NANOCOMPOSITES WITH DIFFERENT CRYSTALLINE FERROELECTRIC INCLUSIONS. , 2013, , .		0
198	Time-resolved X-ray diffraction reveals the origins of high dielectric and electromechanical responses in ferroelectrics. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s84-s85.	0.0	0

#	ARTICLE	IF	CITATIONS
199	High Performance Computing Tools for Cross Correlation of Multi-Dimensional Data Sets Across Instrument Platforms. <i>Microscopy and Microanalysis</i> , 2016, 22, 288-289.	0.2	0
200	Influence of synthesis route on the properties of lead iron niobate. , 2019, , .		0
201	Influence of annealing conditions on elastic and dielectric properties of P(VDF-TrFE) copolymer and its composites. <i>Polymer Composites</i> , 2019, 40, 1609-1618.	2.3	0
202	Effect of Excess Lead Oxide and Thermal Treatment on Dielectric and Magnetic Properties of Pb(Fe _{2/3} W _{1/3})O ₃ . , 2021, , .		0
203	Dielectric and Piezoelectric Properties of (Na _{0.5} Bi _{0.5})(Ti _{1-x} Mn _x)O ₃ (x = 0-0.1) Modified Ceramics. <i>Inorganic Materials</i> , 2021, 57, 942-949.	0.2	0
204	SELF-ORGANIZATION PHENOMENA IN PULSED LASER ANNEALED Si/Ge SUPERLATTICES. , 2003, , .		0
205	Synthesis, Structure, and Optical Properties of Large FAPbBr ₃ Perovskite Single Crystals. <i>Integrated Ferroelectrics</i> , 2021, 220, 46-55.	0.3	0
206	Characterization of modified lead-free ferroelectric sodium-bismuth titanate ceramics. <i>Ferroelectrics</i> , 2022, 591, 91-99.	0.3	0