Doru C Lupascu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5695658/publications.pdf

Version: 2024-02-01

219	6,890	76326	74163
papers	citations	40 h-index	75 g-index

224	224	224	6108
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Leadâ€Free Relaxor Ferroelectrics. Journal of the American Ceramic Society, 2012, 95, 1-26.	3.8	792
2	Temperatureâ€Insensitive (K,Na)NbO₃â€Based Leadâ€Free Piezoactuator Ceramics. Advanced Functional Materials, 2013, 23, 4079-4086.	14.9	494
3	Correlation between microstructure, strain behavior, and acoustic emission of soft PZT ceramics. Acta Materialia, 2001, 49, 1301-1310.	7.9	206
4	Hysteresis-Free Lead-Free Double-Perovskite Solar Cells by Interface Engineering. ACS Energy Letters, 2018, 3, 1781-1786.	17.4	182
5	Damage evolution in ferroelectric PZT induced by bipolar electric cycling. Acta Materialia, 2000, 48, 3783-3794.	7.9	167
6	Dielectric Response: Answer to Many Questions in the Methylammonium Lead Halide Solar Cell Absorbers. Advanced Energy Materials, 2017, 7, 1700600.	19.5	163
7	Fatigue In Bulk Lead Zirconate Titanate Actuator Materials. Advanced Engineering Materials, 2005, 7, 882-898.	3.5	161
8	Strong electrocaloric effect in lead-free 0.65Ba(Zr0.2Ti0.8)O3-0.35(Ba0.7Ca0.3)TiO3 ceramics obtained by direct measurements. Applied Physics Letters, 2015, 106, .	3.3	131
9	Leadâ€Free Double Perovskites for Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900306.	5.8	127
10	Roadmap on organicâ€“inorganic hybrid perovskite semiconductors and devices. APL Materials, 2021, 9, .	5.1	102
11	Fatigue studies in compensated bulk lead zirconate titanate. Journal of Applied Physics, 2005, 97, 024107.	2.5	101
12	Fatigue in Ferroelectric Ceramics and Related Issues. Springer Series in Materials Science, 2004, , .	0.6	98
13	Fatigue of Lead Zirconate Titanate Ceramics. I: Unipolar and DC Loading. Journal of the American Ceramic Society, 2007, 90, 1081-1087.	3.8	98
14	Magnetoelectric coupling on multiferroic cobalt ferriteâ€“barium titanate ceramic composites with different connectivity schemes. Acta Materialia, 2015, 90, 1-9.	7.9	97
15	Microstructural modifications of ferroelectric lead zirconate titanate ceramics due to bipolar electric fatigue. Journal of the European Ceramic Society, 2002, 22, 2133-2142.	5.7	95
16	Constraint-induced crack initiation at electrode edges in piezoelectric ceramics. Acta Materialia, 2001, 49, 2751-2759.	7.9	94
17	Effect of Poling Direction on Râ€Curve Behavior in Lead Zirconate Titanate. Journal of the American Ceramic Society, 2000, 83, 424-426.	3.8	94
18	Aging in Ferroelectrics. Journal of the American Ceramic Society, 2006, 89, 224-229.	3.8	93

#	Article	IF	Citations
19	Converse magnetoelectric effect in CoFe₂O₄â€“BaTiO₃composites with a coreâ€“shell structure. Smart Materials and Structures, 2011, 20, 075006.	3.5	74
20	Effect of particle size on ferroelectric and magnetic properties of BiFeO₃nanopowders. Nanotechnology, 2013, 24, 355701.	2.6	72
21	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. Journal of Applied Physics, 2014, 115, .	2.5	71
22	Drift of charged defects in local fields as aging mechanism in ferroelectrics. Physical Review B, 2007, 75, .	3.2	68
23	Unipolar fatigue of ferroelectric leadâ€“zirconateâ€“titanate. Journal of the European Ceramic Society, 2003, 23, 1409-1415.	5.7	63
24	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. Journal of Materials Chemistry A, 2019, 7, 2095-2105.	10.3	63
25	Electrocaloric Effect in Ba(Zr,Ti)O₃â€“(Ba,Ca)TiO₃ Ceramics Measured Directly. Journal of the American Ceramic Society, 2016, 99, 4022-4030.	3.8	59
26	Mechanical property measurements of heterogeneous materials by selective nanoindentation: Application to LiMn2O4 cathode. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 92-102.	5.6	56
27	Stretched exponential relaxation in perovskite ferroelectrics after cyclic loading. Journal of Applied Physics, 2004, 95, 1386-1390.	2.5	54
28	Cyclic Cluster Growth in Ferroelectric Perovskites. Physical Review Letters, 2002, 89, 187601.	7.8	53
29	Electrocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m at all three ferroelectric transitions: Anisotropy and inverse caloric effects. Physical Review B, 2017, 96, .	3.2	53
30	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. Chemistry of Materials, 2018, 30, 3538-3544.	6.7	52
31	Heterogeneity of fatigue in bulk lead zirconate titanate. Acta Materialia, 2005, 53, 2203-2213.	7.9	51
32	A new (Ba, Ca) (Ti, Zr)O3 based multiferroic composite with large magnetoelectric effect. Scientific Reports, 2016, 6, 32164.	3.3	49
33	Fine Structure of the Optical Absorption Resonance in Cs₂AgBiBr₆ Double Perovskite Thin Films. ACS Energy Letters, 2020, 5, 559-565.	17.4	45
34	Fatigue-induced evolution of domain structure in ferroelectric lead zirconate titanate ceramics investigated by piezoresponse force microscopy. Journal of Applied Physics, 2005, 98, 094109.	2.5	44
35	Mechanical properties of commercial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Li</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml cathode under different States of Charge. Acta Materialia, 2015, 89, 153-162.	7.9	44
36	MÃ¶ssbauer Study of Temperature-Dependent Cycloidal Ordering in BiFeO₃ Nanoparticles. Nano Letters, 2014, 14, 6061-6065.	9.1	43

#	Article	IF	Citations
37	The Direct and the Converse Magnetoelectric Effect in Multiferroic Cobalt Ferriteâ€“Barium Titanate Ceramic Composites. Journal of the American Ceramic Society, 2016, 99, 3623-3631.	3.8	43
38	Direct measurement of electrocaloric effect in lead-free Ba(SnxTi1-x)O3 ceramics. Applied Physics Letters, 2017, 111, .	3.3	43
39	Crack tip switching zone in ferroelectric ferroelastic materials. Acta Materialia, 2004, 52, 4919-4927.	7.9	42
40	Product properties of a two-phase magneto-electric composite: Synthesis and numerical modeling. Computational Mechanics, 2014, 54, 71-83.	4.0	42
41	Effect of dopants on the electrocaloric effect of 0.92 Pb(Mg1/3Nb2/3)O3â€“0.08 PbTiO3 ceramics. Journal of the European Ceramic Society, 2015, 35, 2065-2071.	5.7	42
42	Multiferroic Clusters: A New Perspective for Relaxorâ€Type Roomâ€Temperature Multiferroics. Advanced Functional Materials, 2016, 26, 2111-2121.	14.9	42
43	Stability of pinning centers in fatigued leadâ€“zirconateâ€“titanate. Applied Physics Letters, 2002, 80, 1049-1051.	3.3	39
44	Origins of the Inverse Electrocaloric Effect. Energy Technology, 2018, 6, 1491-1511.	3.8	39
45	PAC-studies of Sn-doped In2O3: electronic defect relaxation following the 111In(EC)111Cd-decay. Zeitschrift FÃ¼r Physik B-Condensed Matter, 1996, 101, 187-196.	1.1	38
46	Investigation of fatigue mechanism in ferroelectric ceramic via piezoresponse force microscopy. Journal of the European Ceramic Society, 2005, 25, 2559-2561.	5.7	38
47	Mechanism of electric fatigue crack growth in lead zirconate titanate. Acta Materialia, 2007, 55, 301-312.	7.9	37
48	Phase transitions, screening and dielectric response of CsPbBr₃. Journal of Materials Chemistry A, 2020, 8, 14015-14022.	10.3	37
49	Relaxation of electronic defects in pure and dopedLa2O3observed by perturbed angular correlations. Physical Review B, 1996, 54, 871-883.	3.2	36
50	Microcrack clouds in fatigued electrostrictive 9.5/65/35 PLZT. Journal of the European Ceramic Society, 2001, 21, 1421-1423.	5.7	36
51	Interaction of domain walls with defects in ferroelectric materials. Mechanics of Materials, 2007, 39, 161-174.	3.2	36
52	PMN?PT Ceramics Prepared By Spark Plasma Sintering. Journal of the American Ceramic Society, 2007, 90, 1101-1106.	3.8	36
53	Bipolar Fatigue Caused by Field Screening in Pb(Zr,Ti)O3Ceramics. Journal of the American Ceramic Society, 2007, 90, 070922001254005-???.	3.8	36
54	Magnetoelectric Effect in (0â€“3) CoFe₂O₄-BaTiO₃(20/80) Composite Ceramics Prepared by the Organosol Route. Ferroelectrics, 2013, 448, 77-85.	0.6	36

#	Article	IF	Citations
55	Giant mechanically-mediated electrocaloric effect in ultrathin ferroelectric capacitors at room temperature. Applied Physics Letters, 2014, 104, .	3.3	36
56	Crack-Tip Toughness of a Soft Lead Zirconate Titanate. Journal of the American Ceramic Society, 2003, 86, 1973-1975.	3.8	35
57	Nanoscale mapping of heterogeneity of the polarization reversal in lead-free relaxorâ€“ferroelectric ceramic composites. Nanoscale, 2016, 8, 2168-2176.	5.6	33
58	Stability of defects in leadâ€“zirconateâ€“titanate after unipolar fatigue. Applied Physics Letters, 2002, 81, 2596-2598.	3.3	32
59	Subcritical Crack Growth in Lead Zirconate Titanate. Journal of the American Ceramic Society, 2004, 87, 1362-1364.	3.8	32
60	Effect of geometry and electrical boundary conditions on R-curves for lead zirconate titanate ceramics. Engineering Fracture Mechanics, 2006, 73, 309-317.	4.3	32
61	Fatigue of Lead Zirconate Titanate Ceramics II: Sesquipolar Loading. Journal of the American Ceramic Society, 2007, 90, 1088-1093.	3.8	32
62	Local manifestations of a static magnetoelectric effect in nanostructured BaTiO₃â€“BaFe₁₂O₉composite multiferroics. Nanoscale, 2015, 7, 4489-4496.	5.6	32
63	The solid state physics programme at ISOLDE: recent developments and perspectives. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 104001.	3.6	32
64	Cobalt Ferrite/Barium Titanate Core/Shell Nanoparticles. Ferroelectrics, 2012, 438, 115-122.	0.6	31
65	Low-temperature synthesis of crystalline BaTiO3 nanoparticles by one-step â€œorganosolâ€•precipitation. Journal of Materials Chemistry, 2012, 22, 17573.	6.7	31
66	Laser Fragmentation Synthesis of Colloidal Bismuth Ferrite Particles. Nanomaterials, 2020, 10, 359.	4.1	31
67	Mixed electromechanical fatigue in lead zirconate titanate. Journal of Applied Physics, 2003, 93, 5551-5556.	2.5	29
68	Electrically driven cracks in piezoelectric ceramics: experiments and fracture mechanics analysis. Journal of the Mechanics and Physics of Solids, 2002, 50, 2333-2353.	4.8	28
69	Evolution of bias field and offset piezoelectric coefficient in bulk lead zirconate titanate with fatigue. Applied Physics Letters, 2005, 86, 012910.	3.3	28
70	Piezoelectric Response in Hybrid Micropillar Arrays of Poly(Vinylidene Fluoride) and Reduced Graphene Oxide. Polymers, 2019, 11, 1065.	4.5	28
71	Short Crack Râ€Curves in Ferroelectric and Electrostrictive PLZT. Journal of the American Ceramic Society, 2001, 84, 593-597.	3.8	27
72	State transition and electrocaloric effect of BaZrxTi1â^’xO3: Simulation and experiment. Journal of Applied Physics, 2017, 121, .	2.5	27

#	Article	IF	Citations
73	Domain switching anisotropy in textured bismuth titanate ceramics. Journal of Applied Physics, 2005, 98, 104102.	2.5	26
74	Electrochemical strain microscopy time spectroscopy: Model and experiment on LiMn2O4. Journal of Applied Physics, 2015, 118, .	2.5	26
75	Measuring the magnetoelectric effect across scales. GAMM Mitteilungen, 2015, 38, 25-74.	5.5	26
76	Comparison of direct electrocaloric characterization methods exemplified by 0.92 Pb(Mg_{1/3}Nb_{2/3})O₃â€0.08 PbTiO₃ multilayer ceramics. Journal of the American Ceramic Society, 2017, 100, 2885-2892.	3.8	26
77	Strong converse magnetoelectric effect in (Ba,Ca)(Zr,Ti)O3 - NiFe2O4 multiferroics: A relationship between phase-connectivity and interface coupling. Acta Materialia, 2018, 144, 305-313.	7.9	26
78	Bitumen rheology and the impact of rejuvenators. Construction and Building Materials, 2019, 222, 414-423.	7.2	26
79	Photodegradation of Triple-Cation Perovskite Solar Cells: The Role of Spectrum and Bias Conditions. ACS Applied Energy Materials, 2021, 4, 3083-3092.	5.1	26
80	R-curves of lead zirconate titanate (PZT). Journal of the European Ceramic Society, 2003, 23, 1401-1408.	5.7	24
81	Effect of Mn and Ba Codoping on a Magnetic Spin Cycloid of Multiferroic Bismuth Ferrite Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 22266-22277.	3.1	24
82	Effect of thermal annealing on switching dynamics of fatigued bulk lead zirconate titanate. Applied Physics Letters, 2004, 85, 3211-3213.	3.3	23
83	Dispersibility of vapor phase oxygen and nitrogen functionalized multi-walled carbon nanotubes in various organic solvents. Scientific Reports, 2016, 6, 26208.	3.3	23
84	Precision PAC measurements in Er2O3 and Ho2O3 single crystals and structure refinement. European Physical Journal B, 1994, 93, 441-447.	1.5	22
85	Evolution of a stable polarization state in lead zirconate titanate ceramics by repeated partial switching. Applied Physics Letters, 2005, 87, 212901.	3.3	22
86	Driving forces on domain walls in ferroelectric materials and interaction with defects. Computational Materials Science, 2006, 35, 42-52.	3.0	22
87	Dynamic Hyperfine Interaction in Cr ₂ O ₃ Observed via PAC. Europhysics Letters, 1995, 29, 175-180.	2.0	20
88	Thickness profiles through fatigued bulk ceramic lead zirconate titanate. Journal of Applied Physics, 2006, 100, 114117.	2.5	20
89	From mesoscopic to global polar order in the uniaxial relaxor ferroelectric Sr0.8Ba0.2Nb2O6. Applied Physics Letters, 2012, 100, 052903.	3.3	20
90	Reduced exciton binding energy in organic semiconductors: Tailoring the Coulomb interaction. Physica Status Solidi - Rapid Research Letters, 2012, 6, 68-70.	2.4	20

#	Article	IF	Citations
91	Macroscopic and Nanoscopic Polarization Relaxation Kinetics in Leadâ€Free Relaxors <scp><scp>Bi</scp></scp>_{1/2}<scp><scp>Na</scp></scp>_{1/2}<scp><scp>TiO</scp></scp>₃â€“ Journal of the American Ceramic Society, 2014, 97, 3904-3912.	3.8	20
92	Modified Differential Scanning Calorimeter for Direct Electrocaloric Measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1690-1696.	3.0	20
93	Agglomeration-Free Preparation of Modified Silica Nanoparticles for Emulsion Polymerizationâ€”A Well Scalable Process. Langmuir, 2018, 34, 376-383.	3.5	20
94	Effect of reabsorption and photon recycling on photoluminescence spectra and transients in lead-halide perovskite crystals. JPhys Materials, 2020, 3, 025003.	4.2	20
95	Nanocrystalline Barium Strontium Titanate Ceramics Synthesized via the â€œOrganosolâ€•Route and Spark Plasma Sintering. Journal of the American Ceramic Society, 2014, 97, 2139-2146.	3.8	19
96	TDPAC andÎ²-NMR applications in chemistry and biochemistry. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 064003.	3.6	19
97	Doping of inorganic materials in microreactors â€“ preparation of Zn doped Fe₃O₄ nanoparticles. Lab on A Chip, 2015, 15, 3154-3162.	6.0	18
98	Deposition routes of Cs2AgBiBr6 double perovskites for photovoltaic applications. MRS Advances, 2018, 3, 1819-1823.	0.9	18
99	Bismuth-Antimony mixed double perovskites Cs2AgBi1â^'xSbxBr6 in solar cells. MRS Advances, 2019, 4, 3545-3552.	0.9	18
100	Maxwell relation, giant (negative) electrocaloric effect, and polarization hysteresis. Applied Physics Letters, 2021, 118, .	3.3	18
101	Fatigue anisotropy in lead-zirconate-titanate. Journal of the European Ceramic Society, 2004, 24, 1663-1667.	5.7	17
102	Local ferroelectric properties in polyvinylidene fluoride/barium lead zirconate titanate nanocomposites: Interface effect. Journal of Applied Physics, 2013, 114, .	2.5	17
103	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
104	Quasi-adiabatic calorimeter for direct electrocaloric measurements. Review of Scientific Instruments, 2018, 89, 034903.	1.3	17
105	Li and Ta-modified KNN piezoceramic fibers for vibrational energy harvesters. Journal of the European Ceramic Society, 2021, 41, 7662-7669.	5.7	16
106	Crack initiation and crack propagation in partially electroded PZT. Journal of the European Ceramic Society, 2001, 21, 1425-1428.	5.7	15
107	Liquid-crystal display of stress fields in ferroelectrics. Applied Physics Letters, 2001, 78, 2554-2556.	3.3	15
108	Near electrode fatigue in lead zirconate titanate ceramics. European Physical Journal Special Topics, 2005, 128, 97-103.	0.2	15

#	Article	IF	Citations
109	Anisotropic Fracture Behavior in Ferroelectric Relaxor PZN-4.5%PT Single Crystals. Journal of the American Ceramic Society, 2005, 88, 1838-1844.	3.8	15
110	In and Cd as defect traps in titanium dioxide. Hyperfine Interactions, 2017, 238, 1.	0.5	15
111	Free Molecule Studies by Perturbed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Î³</mml:mi></mml:mrow></mml:math> Angular Correlation: A New Path to Accurate Nuclear Quadrupole Moments. Physical Review Letters, 2021, 126, 103001.	7.8	15
112	Electric field gradients of111Cd in monoclinic (B-phase) rare earth sesquioxides. Journal of Physics Condensed Matter, 1994, 6, 10445-10456.	1.8	14
113	Dynamics of a single-planar domain wall in ferroelectricâ€“ferroelastic Gd2(MoO4)3. Applied Physics Letters, 2002, 80, 2359-2361.	3.3	14
114	Ion implantation in titanium dioxide thin films studied by perturbed angular correlations. Journal of Applied Physics, 2017, 121, .	2.5	14
115	Perturbed angular correlations at ISOLDE: A 40 years young technique. AIP Advances, 2017, 7, .	1.3	14
116	Sequential piezoresponse force microscopy and the â€˜small-dataâ€™ problem. Npj Computational Materials, 2018, 4, .	8.7	14
117	Negligible oxygen liberation during bipolar electric cycling of ferroelectric lead zirconate titanate ceramics. Applied Physics Letters, 2001, 79, 3675-3677.	3.3	13
118	Fatigue in ferroelectric ceramics due to cluster growth. Solid State Ionics, 2006, 177, 3161-3170.	2.7	13
119	Nonlinearity and fatigue in ferroelectric lead zirconate titanate. Journal of Applied Physics, 2006, 100, 054109.	2.5	13
120	Electric-Field-Induced Crack Initiation From a Notch in a Ferroelectric Ceramic. Journal of the American Ceramic Society, 2007, 90, 2849-2854.	3.8	13
121	Computation of nonâ€linear magnetoâ€electric product properties of 0â€“3 composites. GAMM Mitteilungen, 2015, 38, 8-24.	5.5	13
122	Multiferroic bismuth ferrite: Perturbed angular correlation studies on its ferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mi>Î²</mml:mi></mml:mat phase transition. Physical Review B, 2020, 102, .	3.2	13
123	Spatial Charge Separation as the Origin of Anomalous Stark Effect in Fluorous 2D Hybrid Perovskites. Advanced Functional Materials, 2020, 30, 2000228.	14.9	12
124	Revealing Weak Dimensional Confinement Effects in Excitonic Silver/Bismuth Double Perovskites. Jacs Au, 2022, 2, 136-149.	7.9	12
125	Microcracking and discontinuous fast switching as acoustic emission sources in 8/65/35 and 9.5/65/35 PLZT relaxor ferroelectrics. Journal of the European Ceramic Society, 2001, 21, 1429-1432.	5.7	11
126	Crack deflection in piezoelectric ceramics. Journal of the European Ceramic Society, 2003, 23, 1147-1156.	5.7	11

#	Article	IF	Citations
127	Discontinuous domain wall motion in the relaxor ferroelectric Sr 0.61 Ba 0.39 Nb 2 O 6. Europhysics Letters, 2004, 68, 733-739.	2.0	10
128	Discontinuous switching in antiferroelectric ceramics monitored by acoustic emissions. Journal of Applied Physics, 2005, 97, 124106.	2.5	10
129	Deaging in Gd2(MoO4)3 by cyclic motion of a single planar domain wall. Journal of Applied Physics, 2005, 98, 074106.	2.5	10
130	Temperature dependence of the local piezoresponse in (K,Na)NbO3-based ceramics with large electromechanical strain. Journal of Applied Physics, 2014, 116, .	2.5	10
131	Evolution of poled state in P(VDF-TrFE)/(Pb,Ba)(Zr,Ti)O3 composites probed by temperature dependent Piezoresponse and Kelvin Probe Force Microscopy. Scientific Reports, 2018, 8, 378.	3.3	10
132	Interplay of domain structure and phase transitions: theory, experiment and functionality. Journal of Physics Condensed Matter, 2022, 34, 073002.	1.8	10
133	Effect of Al3+ modification on cobalt ferrite and its impact on the magnetoelectric effect in BCZTâ€“CFO multiferroic composites. Journal of Materials Science, 2017, 52, 13402-13413.	3.7	9
134	Effect of substrate orientation on local magnetoelectric coupling in bi-layered multiferroic thin films. Nanoscale, 2018, 10, 20618-20627.	5.6	9
135	Thermal annealing effects in polycrystalline EuTiO3 and Eu2Ti2O7. AIP Advances, 2019, 9, 125125.	1.3	9
136	Role of cooperative factors in the photocatalytic activity of Ba and Mn doped BiFeO₃ nanoparticles. Nanoscale Advances, 2021, 3, 5830-5840.	4.6	9
137	Dense nanopowder composites for thermal insulation. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 439-442.	1.8	8
138	Magnetodielectric effect in relaxor/ferrimagnetic composites. Journal of Alloys and Compounds, 2015, 640, 462-467.	5.5	8
139	Hybrid biodegradable electrospun scaffolds based on poly(l-lactic acid) and reduced graphene oxide with improved piezoelectric response. Polymer Journal, 2022, 54, 1237-1252.	2.7	8
140	Acoustic emission from different PZT. Ferroelectrics, 1999, 222, 249-255.	0.6	7
141	<title>Fatigue effect in bulk ferroelectrics</title>. , 2002, , .		7
142	The Dynamics of Domain Walls Determined from Acoustic Emission Measurements. Ferroelectrics, 2003, 290, 207-215.	0.6	7
143	Investigation of Dielectric and Noise Properties of the Multiferoic Composite BaTiO3with CoFe2O4. Ferroelectrics, 2011, 417, 25-32.	0.6	7
144	Large coercivity and polarization of sol-gel derived BaTiO3 nanowires. Journal of Applied Physics, 2011, 110, 064112.	2.5	7

#	Article	IF	Citations
145	Cd and In-doping in thin film SnO2. Journal of Applied Physics, 2017, 121, 195303.	2.5	7
146	A two-scale homogenization analysis of porous magneto-electric two-phase composites. Archive of Applied Mechanics, 2019, 89, 1123-1140.	2.2	7
147	The phenomenon of bitumen â€˜bee' structures â€“ bulk or surface layer â€“ a closer look. International Journal of Pavement Engineering, 2022, 23, 1768-1776.	4.4	7
148	Influence of calcination and sintering temperatures on dielectric and magnetic properties of Pb(Fe0.5Nb0.5)O3 ceramics synthesized by the solid state method. Ceramics International, 2021, 47, 23396-23403.	4.8	7
149	Acoustic emission in PZT under bipolar electric driving and uniaxial mechanical stress. Ferroelectrics, 2000, 240, 1293-1302.	0.6	6
150	Synthesis and Magnetic Properties of Cobalt Ferrite Nanoparticles. Materials Research Society Symposia Proceedings, 2012, 1398, 1.	0.1	6
151	Energy Transfer Kinetics in Photosynthesis as an Inspiration for Improving Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 19030-19039.	8.0	6
152	Iceâ€Templated Poly(vinyl alcohol): Enhanced Strength and Low Thermal Conductivity. Macromolecular Materials and Engineering, 2018, 303, 1800198.	3.6	6
153	Dynamic quadrupole interactions in semiconductors. Journal of Applied Physics, 2018, 123, 165109.	2.5	6
154	Exchange bias effect in bulk multiferroic BiFe0.5Sc0.5O3. AIP Advances, 2020, 10, 045102.	1.3	6
155	Effect of Composition on Polarization Hysteresis and Energy Storage Ability of P(VDF-TrFE-CFE) Relaxor Terpolymers. Polymers, 2021, 13, 1343.	4.5	6
156	Electric field gradients of111Cd in the hexagonal (A-phase) La2O3 and Nd2O3 sesquioxides. Hyperfine Interactions, 1993, 80, 959-964.	0.5	5
157	Strain coupled Hall effect in ferroelectric-ferroelastic lead zirconate titanate. Physical Review B, 2004, 70, .	3.2	5
158	Migration of Charged Defects in Local Depolarization Fields as a Mechanism of Aging in Ferroelectrics. Ferroelectrics, 2008, 370, 196-202.	0.6	5
159	<title>Role of crack formation in the electric fatigue behavior of ferroelectric PZT ceramics</title>. , 2000, 3992, 209.		4
160	Effect of grain size on the R-curve behavior of lead zirconate titanate (PZT). , 2001, 4333, 38.		4
161	Continuum analysis of the nucleus growth of reverse domains in large ferroelectric crystals. Journal of Applied Physics, 2009, 105, 084115.	2.5	4
162	Preparation of SiO₂â€Encapsulated BaTiO₃ Nanoparticles with Tunable Shell Thickness by Reverse Microemulsion. Particle and Particle Systems Characterization, 2013, 30, 832-836.	2.3	4

#	Article	IF	Citations
163	The effect of silicon-substrate orientation on the local piezoelectric characteristics of LiNbO3 films. Journal of Surface Investigation, 2016, 10, 742-747.	0.5	4
164	A Piezoresponse Force Microscopy Study of CaxBa1â˜'xNb2O6 Single Crystals. Materials, 2017, 10, 1032.	2.9	4
165	Stress induced magnetic-domain evolution in magnetoelectric composites. Nanotechnology, 2018, 29, 255702.	2.6	4
166	Magnetostriction via Magnetoelectricity: Using Magnetoelectric Response to Determine the Magnetostriction Characteristics of Composite Multiferroics. Technical Physics Letters, 2019, 45, 1152-1154.	0.7	4
167	Band Gap of Pb(Fe0.5Nb0.5)O3 Thin Films Prepared by Pulsed Laser Deposition. Materials, 2021, 14, 6841.	2.9	4
168	Strong magnetoelectric coupling at an atomic nonmagnetic electromagnetic probe in bismuth ferrite. Physical Review B, 2022, 105, .	3.2	4
169	High Energy Storage Density in Nanocomposites of P(VDF-TrFE-CFE) Terpolymer and BaZr0.2Ti0.8O3 Nanoparticles. Materials, 2022, 15, 3151.	2.9	4
170	Thermodynamic consistent modelling of defects and microstructures in ferroelectrics. GAMM Mitteilungen, 2008, 31, 133-150.	5.5	3
171	Refatigue of Ferroelectric Lead Zirconate Titanate. Journal of the American Ceramic Society, 2010, 93, 2551-2554.	3.8	3
172	Mechanical Properties of Ferro-Piezoceramics. Springer Series in Materials Science, 2011, , 469-542.	0.6	3
173	Magnetoelectric properties of 0.2CoFe<inf>2</inf>O<inf>4</inf>-0.8BaTiO<inf>3</inf> composite prepared by organic method. , 2012, , .		3
174	The Microstructure and Local Piezoelectric Response in Polymer Nanocomposites with Different Ferroelectric Crystalline Additions. Materials Research Society Symposia Proceedings, 2013, 1556, .	0.1	3
175	Implantation of cobalt in SnO2 thin films studied by TDPAC. AIP Advances, 2017, 7, .	1.3	3
176	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, .	19.5	3
177	A hyperfine look at titanium dioxide. AIP Advances, 2019, 9, 085208.	1.3	3
178	Tuning the optical, structural and multiferroic properties of Bismuth Ferrite (BiFeO3) Nanoparticles by Doping with Ba. , 2019, , .		3
179	Comment on â€œGiant pyroelectric energy harvesting and a negative electrocaloric effect in multilayered nanostructuresâ€•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.	30.8	3
180	Yttrium Oxide Freeze-Casts: Target Materials for Radioactive Ion Beams. Materials, 2021, 14, 2864.	2.9	3

#	Article	IF	Citations
181	Frazil Ice in the Antarctic Marginal Ice Zone. Journal of Marine Science and Engineering, 2021, 9, 647.	2.6	3
182	Dependence of the magnetoelectric coupling on elastic and dielectric properties of two-phase multiferroic composites. Journal of Materials Science, 2021, 56, 14978-14988.	3.7	3
183	Dielectric Properties and Conductivity of Iron Oxide-Barium Titanate Composites. Ferroelectrics, 2011, 418, 94-99.	0.6	2
184	Structure and dielectric properties of (1â^'x)Ag0.9Li0.1NbO3â€"(x)Bi0.5K0.5TiO3 ferroelectric ceramics. Ceramics International, 2014, 40, 9961-9969.	4.8	2
185	TDPAC study of Fe-implanted titanium dioxide thin films. AIP Advances, 2017, 7, .	1.3	2
186	Semiconductor Effects in Ferroelectrics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2018, , 97-178.	0.6	2
187	Electrocaloric effect in P(VDF-TrFE)/ barium zirconium titanate composites. , 2019, , .		2
188	Spatially resolved investigation of the defect states in methylammonium lead iodide perovskite bicrystals. Journal of Materials Chemistry C, 2019, 7, 13156-13160.	5.5	2
189	Fracture behavior of ferroelectric ceramics. , 1999, , .		1
190	Dyes in Vertically Aligned Carbon Nanotube Arrays for Solar Cell Applications. Materials Research Society Symposia Proceedings, 2012, 1390, 71.	0.1	1
191	Direct electrocaloric measurements using a differential scanning calorimeter. , 2015, , .		1
192	Reply to the Comment on â€œPhase transitions, screening and dielectric response of CsPbBr3â€•by Å. Svirskas, S. BalÄ•Å«nas, M. ÅimÄ—nas, G. UseviÄ•ius, M. Kinka, M. VeliÄka, D. Kubicki, M. E. Castillo, A. Karabanov, V. V. Shvartsman, M. R. Soares, V. Åablinskas, A. N. Salak, D. C. Lupascu and J. Banys, J. Mater. Chem. A, 2020, 8, 14015. Journal of Materials Chemistry A, 2021, 9, 11453-11455.	10.3	1
193	Directly Measured Electrocaloric Effect in Relaxor Polymer Nanocomposites. , 2021, , .		1
194	Influence of Microstructure on Microscopic and Macroscopic Strain Behavior of Soft PZT Ceramics. , 2000, , 137-147.		0
195	Local fracture properties in ferroelectric relaxor PZN-4.5%PT single crystals. , 2005, , .		0
196	An optical method to assess electromechanical coupling in ferroelectric ceramics. Experimental Mechanics, 2005, 45, 290-294.	2.0	0
197	Response of the ferroelectric domain structure of morphotropic PZT to the application of an electric field â€"in-situsynchrotron X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2006, 62, s84-s84.	0.3	0
198	Aging in Ferroelectrics, a Drift Approach. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , .	0.0	0

#	Article	IF	Citations
199	Crack Initiation and Crack Propagation under Cyclic Electric Loading in PZT. , 2006, , 40-48.		0
200	Drift of charged defects in local fields as a mechanism of degradation in ferroelectrics. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
201	Mechanisms of aging in ferroelectrics: The orientation of dipoles versus the charge drift. , 2008, , .		0
202	Relaxor Behaviour and Soft Mode in 0.85Ag_{0.9}Li_{0.1}NbO₃â€“ 0.15Bi_{0.5}K_{0.5}TiO₃Ceramics. Ferroelectrics, 2011, 416, 72-77.	0.6	0
203	Synthesis and Characterization of BaTiO3 Nanopowders and BaTiO3/CoFe2O4 Nanocomposites. Materials Research Society Symposia Proceedings, 2012, 1397, 84.	0.1	0
204	Numerical analysis of two-phase magneto-electric composites. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 261-262.	0.2	0
205	LOCAL POLARIZATION IN POLYMER NANOCOMPOSITES WITH DIFFERENT CRYSTALLINE FERROELECTRIC INCLUSIONS. , 2013, , .		0
206	Dielectric Properties of 0.9Ag0.9Li0.1NbO3â€“ 0.1Bi0.5K0.5TiO3Ceramics. Ferroelectrics, 2014, 463, 99-104.	0.6	0
207	Preface of the guest-editors. GAMM Mitteilungen, 2015, 38, 6-7.	5.5	0
208	Computational characterization of magneto-electric composites: the role of ferroelectric pre-polarization. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 457-458.	0.2	0
209	Thin films for photovoltaic application. Ferroelectrics, 2016, 496, 187-195.	0.6	0
210	Multiferroics: Multiferroic Clusters: A New Perspective for Relaxor-Type Room-Temperature Multiferroics (Adv. Funct. Mater. 13/2016). Advanced Functional Materials, 2016, 26, 2110-2110.	14.9	0
211	Advanced modeling of ferroic materials. Archive of Applied Mechanics, 2019, 89, 953-953.	2.2	0
212	3D magnetostrictive Preisach model for the analysis of magneto-electric composites. Archive of Applied Mechanics, 2019, 89, 1011-1030.	2.2	0
213	Imageâ€based stress analysis of porous freeze casts. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000135.	0.2	0
214	Electronic interactions between graphene and cobaltite thin film La0.7Sr0.3CoO3 and its magnetic consequences. Surfaces and Interfaces, 2021, 23, 100919.	3.0	0
215	Effect of Excess Lead Oxide and Thermal Treatment on Dielectric and Magnetic Properties of Pb(Fe2/3W1/3)O3. , 2021, , .		0
216	An Optical Method to Assess Electromechanical Coupling in Ferroelectric Ceramics. Experimental Mechanics, 2005, 45, 290-294.	2.0	0

#	Article	IF	Citations
217	Synthesis, Structure, and Optical Properties of Large FAPbBr3 Perovskite Single Crystals. Integrated Ferroelectrics, 2021, 220, 46-55.	0.7	0
218	The Local Exploration of Magnetic Field Effects in Semiconductors. Crystals, 2022, 12, 560.	2.2	0
219	Laser Ablation of NiFe2O4 and CoFe2O4 Nanoparticles. Nanomaterials, 2022, 12, 1872.	4.1	0