D Damjanovic

List of Publications by Year
in descending order

243 papers	25,953 citations	9234 74 h-index	6454 157 g-index
250 all docs	250 docs citations	250 times ranked	11763 citing authors

#	Article	IF	Citations
1	Perspective on the Development of Leadâ€free Piezoceramics. Journal of the American Ceramic Society, 2009, 92, 1153-1177.	1.9	2,571
2	Ferroelectric, dielectric and piezoelectric properties of ferroelectric thin films and ceramics. Reports on Progress in Physics, 1998, 61, 1267-1324.	8.1	1,787
3	Ferroelectric thin films: Review of materials, properties, and applications. Journal of Applied Physics, 2006, 100, 051606.	1.1	1,480
4	Transferring lead-free piezoelectric ceramics into application. Journal of the European Ceramic Society, 2015, 35, 1659-1681.	2.8	1,050
5	Piezoelectric properties of Li- and Ta-modified (K0.5Na0.5)NbO3 ceramics. Applied Physics Letters, 2005, 87, 182905.	1.5	769
6	Lead Free Piezoelectric Materials. Journal of Electroceramics, 2004, 13, 385-392.	0.8	603
7	Contributions to the Piezoelectric Effect in Ferroelectric Single Crystals and Ceramics. Journal of the American Ceramic Society, 2005, 88, 2663-2676.	1.9	558
8	Origin of the large strain response in (K0.5Na0.5)NbO3-modified (Bi0.5Na0.5)TiO3â€“BaTiO3 lead-free piezoceramics. Journal of Applied Physics, 2009, 105, .	1.1	550
9	A morphotropic phase boundary system based on polarization rotation and polarization extension. Applied Physics Letters, 2010, 97, .	1.5	542
10	Evolving morphotropic phase boundary in lead-free (Bi1/2Na1/2)TiO3â€“BaTiO3 piezoceramics. Journal of Applied Physics, 2011, 109, .	1.1	405
11	Materials for high temperature piezoelectric transducers. Current Opinion in Solid State and Materials Science, 1998, 3, 469-473.	5.6	404
12	<scp><scp>BiFeO</scp></scp>₃ Ceramics: Processing, Electrical, and Electromechanical Properties. Journal of the American Ceramic Society, 2014, 97, 1993-2011.	1.9	388
13	Stress and frequency dependence of the direct piezoelectric effect in ferroelectric ceramics. Journal of Applied Physics, 1997, 82, 1788-1797.	1.1	382
14	Highâ€Strain Leadâ€free Antiferroelectric Electrostrictors. Advanced Materials, 2009, 21, 4716-4720.	11.1	364
15	The negative piezoelectric effect of the ferroelectric polymer poly(vinylidene fluoride). Nature Materials, 2016, 15, 78-84.	13.3	329
16	WHAT CAN BE EXPECTED FROM LEAD-FREE PIEZOELECTRIC MATERIALS?. Functional Materials Letters, 2010, 03, 5-13.	0.7	311
17	Preparation and characterization of (K0.5Na0.5)NbO3 ceramics. Journal of the European Ceramic Society, 2006, 26, 861-866.	2.8	310
18	Origins of Electroâ€Mechanical Coupling in Polycrystalline Ferroelectrics During Subcoercive Electrical Loading. Journal of the American Ceramic Society, 2011, 94, 293-309.	1.9	310

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19	Microstructure, Electrical Conductivity, and Piezoelectric Properties of Bismuth Titanate. Journal of the American Ceramic Society, 1996, 79, 3124-3128.	1.9	290
20	Domain-wall conduction in ferroelectric BiFeO3 controlled by accumulation of charged defects. Nature Materials, 2017, 16, 322-327.	13.3	288
21	Strong ferroelectric domain-wall pinning in BiFeO3 ceramics. Journal of Applied Physics, 2010, 108, .	1.1	281
22	The Rayleigh law in piezoelectric ceramics. Journal Physics D: Applied Physics, 1996, 29, 2057-2060.	1.3	277
23	Contribution of the irreversible displacement of domain walls to the piezoelectric effect in barium titanate and lead zirconate titanate ceramics. Journal of Physics Condensed Matter, 1997, 9, 4943-4953.	0.7	275
24	Determination of depolarization temperature of (Bi1/2Na1/2)TiO3-based lead-free piezoceramics. Journal of Applied Physics, 2011, 110, .	1.1	268
25	Electric-field-, temperature-, and stress-induced phase transitions in relaxor ferroelectric single crystals. Physical Review B, 2006, 73, .	1.1	265
26	Enhanced electromechanical response of ferroelectrics due to charged domain walls. Nature Communications, 2012, 3, 748.	5.8	265
27	Structural complexity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:msub><mml:mrow><mml:mtext>Na</mml:mtext> Physical Review B, 2010, 82, .	1.1	262
28	Local Structural Heterogeneity and Electromechanical Responses of Ferroelectrics: Learning from Relaxor Ferroelectrics. Advanced Functional Materials, 2018, 28, 1801504.	7.8	260
29	Domain wall contributions to the properties of piezoelectric thin films. Journal of Electroceramics, 2007, 19, 49-67.	0.8	252
30	Evidence of domain wall contribution to the dielectric permittivity in PZT thin films at sub-switching fields. Journal of Applied Physics, 1997, 82, 1973-1975.	1.1	237
31	Piezoelectric properties of rhombohedral Pb(Zr,â€ŠTi)O3 thin films with (100), (111), and â€œrandomâ€• crystallographic orientation. Applied Physics Letters, 2000, 76, 1615-1617.	1.5	212
32	Temperature stability of the piezoelectric properties of Li-modified KNN ceramics. Journal of the European Ceramic Society, 2007, 27, 4093-4097.	2.8	204
33	Rotator and extender ferroelectrics: Importance of the shear coefficient to the piezoelectric properties of domain-engineered crystals and ceramics. Journal of Applied Physics, 2007, 101, 054112.	1.1	203
34	Breaking of macroscopic centric symmetry in paraelectric phases of ferroelectric materials andÂimplications for flexoelectricity. Nature Materials, 2015, 14, 224-229.	13.3	183
35	Two-stage processes of electrically induced-ferroelectric to relaxor transition in 0.94(Bi1/2Na1/2)TiO3-0.06BaTiO3. Applied Physics Letters, 2013, 102, .	1.5	182
36	Lead-free high-temperature dielectrics with wide operational range. Journal of Applied Physics, 2011, 109, .	1.1	176

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37	A study of the phase diagram of (K,Na,Li)NbO3 determined by dielectric and piezoelectric measurements, and Raman spectroscopy. Journal of Applied Physics, 2007, 102, .	1.1	175
38	Structure and properties of Fe-modified Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn	1.1	175
39	Comments on Origins of Enhanced Piezoelectric Properties in Ferroelectrics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1574-1585.	1.7	168
40	Logarithmic frequency dependence of the piezoelectric effect due to pinning of ferroelectric-ferroelastic domain walls. Physical Review B, 1997, 55, R649-R652.	1.1	160
41	Charge migration in Pb(Zr,Ti)O3 ceramics and its relation to ageing, hardening, and softening. Journal of Applied Physics, 2010, 107, .	1.1	158
42	Compositional Inhomogeneity in Liâ€•and Taâ€Modified (K, Na)NbO₃ Ceramics. Journal of the American Ceramic Society, 2007, 90, 3485-3489.	1.9	156
43	Elastic, dielectric, and piezoelectric anomalies and Raman spectroscopy of 0.5Ba(Ti0.8Zr0.2)O3-0.5(Ba0.7Ca0.3)TiO3. Applied Physics Letters, 2012, 100, .	1.5	156
44	Piezoelectric anisotropyâ€“phase transition relations in perovskite single crystals. Journal of Applied Physics, 2003, 94, 6753-6761.	1.1	149
45	Hardening-softening transition in Fe-doped Pb(Zr,Ti)O3 ceramics and evolution of the third harmonic of the polarization response. Journal of Applied Physics, 2008, 104, .	1.1	145
46	Electrostrictive and Piezoelectric Materials for Actuator Applications. Journal of Intelligent Material Systems and Structures, 1992, 3, 190-208.	1.4	143
47	Hysteresis in Piezoelectric and Ferroelectric Materials. , 2006, , 337-465.		139
48	Dependence of the direct piezoelectric effect in coarse and fine grain barium titanate ceramics on dynamic and static pressure. Applied Physics Letters, 1996, 68, 3046-3048.	1.5	137
49	Piezoelectric response and free-energy instability in the perovskite crystalsBaTiO3,PbTiO3, andPb(Zr,Ti)O3. Physical Review B, 2006, 73, .	1.1	131
50	Preisach modeling of piezoelectric nonlinearity in ferroelectric ceramics. Journal of Applied Physics, 2001, 89, 5067-5074.	1.1	121
51	Preparation and Characterization of KNbO3 Ceramics. Journal of the American Ceramic Society, 2005, 88, 1754-1759.	1.9	120
52	Flexoelectricity in Bones. Advanced Materials, 2018, 30, 1705316.	11.1	115
53	Highâ€Temperature Instability of Liâ€•and Taâ€Modified (K,Na)NbO₃ Piezoceramics. Journal of the American Ceramic Society, 2008, 91, 1962-1970.	1.9	112
54	Collective dynamics underpins Rayleigh behavior in disordered polycrystalline ferroelectrics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7219-7224.	3.3	112

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55	Structure and phase transitions in 0.5(Ba0.7Ca0.3TiO3)-0.5(BaZr0.2Ti0.8O3) from â^'100â€‰Â°C to 150â€‰Â°C. Journal of Applied Physics, 2013, 113, .	1.1	110
56	Domain wall pinning contribution to the nonlinear dielectric permittivity in Pb(Zr,â€‰Ti)O3 thin films. Applied Physics Letters, 1998, 73, 2045-2047.	1.5	109
57	Substrate Clamping Effects on Irreversible Domain Wall Dynamics in Lead Zirconate Titanate Thin Films. Physical Review Letters, 2012, 108, 157604.	2.9	109
58	Ferroelectric sensors. IEEE Sensors Journal, 2001, 1, 191-206.	2.4	108
59	Piezoelectric nonlinearity due to motion of 180Â° domain walls in ferroelectric materials at subcoercive fields: A dynamic poling model. Applied Physics Letters, 2006, 88, 202901.	1.5	107
60	Monodomain versus polydomain piezoelectric response of 0.67Pb(Mg1/3Nb2/3)O3â€“0.33PbTiO3 single crystals along nonpolar directions. Applied Physics Letters, 2003, 83, 527-529.	1.5	103
61	Defect ordering and defectâ€“domain-wall interactions in PbTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: A first-principles study. Physical Review B, 2013, 88, .	1.1	100
62	Landau thermodynamic potential for BaTiO3. Journal of Applied Physics, 2007, 101, 104115.	1.1	99
63	Domain wall contributions in Pb(Zr,Ti)O3 ceramics at morphotropic phase boundary: A study of dielectric dispersion. Applied Physics Letters, 2010, 96, .	1.5	98
64	Domain engineering of the transverse piezoelectric coefficient in perovskite ferroelectrics. Journal of Applied Physics, 2005, 98, 014102.	1.1	97
65	Raman spectroscopy of (K,Na)NbO3 and (K,Na)1â^'xLixNbO3. Applied Physics Letters, 2008, 93, .	1.5	97
66	Crystal orientation dependence of the piezoelectric d33 coefficient in tetragonal BaTiO3 as a function of temperature. Applied Physics Letters, 2002, 80, 652-654.	1.5	96
67	Nanodomains in Fe+3-doped lead zirconate titanate ceramics at the morphotropic phase boundary do not correlate with high properties. Applied Physics Letters, 2009, 95, .	1.5	96
68	Depolarization of multidomain ferroelectric materials. Nature Communications, 2019, 10, 2547.	5.8	93
69	Piezoelectric anisotropy: Enhanced piezoelectric response along nonpolar directions in perovskite crystals. Journal of Materials Science, 2006, 41, 65-76.	1.7	90
70	Long-range symmetry breaking in embedded ferroelectrics. Nature Materials, 2018, 17, 814-819.	13.3	87
71	Control of polarization in bulk ferroelectrics by mechanical dislocation imprint. Science, 2021, 372, 961-964.	6.0	84
72	Formation of charged ferroelectric domain walls with controlled periodicity. Scientific Reports, 2015, 5, 15819.	1.6	83

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73	Mobile Domain Walls as a Bridge between Nanoscale Conductivity and Macroscopic Electromechanical Response. Advanced Functional Materials, 2015, 25, 2099-2108.	7.8	80
74	Temperature dependence of the direct piezoelectric effect in relaxor-ferroelectric single crystals: Intrinsic and extrinsic contributions. Journal of Applied Physics, 2006, 100, 084103.	1.1	77
75	Position of defects with respect to domain walls in Fe3+-doped Pb[Zr0.52Ti0.48]O3 piezoelectric ceramics. Applied Physics Letters, 2011, 98, .	1.5	77
76	Effect of Nb-donor and Fe-acceptor dopants in (Bi1/2Na1/2)TiO3â€“BaTiO3â€“(K0.5Na0.5)NbO3 lead-free piezoceramics. Journal of Applied Physics, 2010, 108, .	1.1	75
77	Electromechanicalâ€‰propertiesâ€‰andâ€‰self-polarizationâ€‰inâ€‰relaxor Pb(Mg1/3Nb2/3)O3 thin films. Journal of Applied Physics, 2001, 89, 1393-1401.	1.1	73
78	Large Electricâ€Field Induced Strain in <scp><scp>BiFeO₃</scp></scp> Ceramics. Journal of the American Ceramic Society, 2011, 94, 4108-4111.	1.9	73
79	Polar lattice relations and phase transition dynamics in Pb(Zr<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 527 Td (xmlns:	1.1	72
80	Compositional behavior of Raman-active phonons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mi>Pb</mml:mi><mml:mo>(</mml:mo><mml:m	1.1	72
81	Enhancement of the piezoelectric response of tetragonal perovskite single crystals by uniaxial stress applied along the polar axis: A free-energy approach. Physical Review B, 2005, 72, .	1.1	71
82	Instabilities in the piezoelectric properties of ferroelectric ceramics. Sensors and Actuators A: Physical, 1996, 53, 353-360.	2.0	69
83	Relaxor behavior and electromechanical properties of Pb(Mg1/3Nb2/3)O3 thin films. Applied Physics Letters, 1998, 73, 2281-2283.	1.5	69
84	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics I: Nonlinearities and Losses in the Converse Piezoelectric Effect. Journal of the American Ceramic Society, 2009, 92, 2291-2299.	1.9	68
85	The effect of processing conditions on the morphology, thermomechanical, dielectric, and piezoelectric properties of P(VDF-TrFE)/BaTiO3 composites. Journal of Materials Science, 2012, 47, 4763-4774.	1.7	68
86	Piezoelectric response of thin films determined by charge integration technique: Substrate bending effects. Journal of Applied Physics, 2003, 93, 4756-4760.	1.1	66
87	Crystal structure and domainâ€wall contributions to the piezoelectric properties of strontium bismuth titanate ceramics. Journal of Applied Physics, 1996, 80, 4223-4225.	1.1	65
88	The nonlinearity and subswitching hysteresis in hard and soft PZT. Journal of the European Ceramic Society, 2005, 25, 2483-2486.	2.8	61
89	Process influences on the structure, piezoelectric, and gasâ€barrier properties of PVDFâ€TrFE copolymer. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 496-506.	2.4	61
90	Induced giant piezoelectricity in centrosymmetric oxides. Science, 2022, 375, 653-657.	6.0	59

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91	Dielectric and electromechanical properties of ferroelectric-relaxor 0.9 Pb(Mg1/3Nb2/3)O3â€“0.1PbTiO3 thin films. Journal of Applied Physics, 2001, 90, 4682-4689.	1.1	56
92	Properties of ferroelectric PbTiO3 thin films. Journal of Applied Physics, 2002, 91, 1495-1501.	1.1	56
93	Revealing the sequence of switching mechanisms in polycrystalline ferroelectric/ferroelastic materials. Acta Materialia, 2018, 157, 355-363.	3.8	56
94	Effect of silane coupling agent on the morphology, structure, and properties of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.7	54
95	Maxwellâ€“Wagner piezoelectric relaxation in ferroelectric heterostructures. Journal of Applied Physics, 2001, 90, 5708-5712.	1.1	53
96	Separation of piezoelectric grain resonance and domain wall dispersion in Pb(Zr,Ti)O3 ceramics. Applied Physics Letters, 2009, 94, .	1.5	53
97	Direct piezoelectric effect in relaxor-ferroelectric single crystals. Journal of Applied Physics, 2004, 95, 5679-5684.	1.1	52
98	Cation vacancies in ferroelectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Pb</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi		

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109	Piezoelectric response of BiFeO3 ceramics at elevated temperatures. Applied Physics Letters, 2016, 109, .	1.5	42
110	Piezoelectric nonlinearity and frequency dispersion of the direct piezoelectric response of BiFeO3 ceramics. Journal of Applied Physics, 2012, 112, .	1.1	40
111	Temperature behavior of the complex piezoelectric d31 coefficient in modified lead titanate ceramics. Materials Letters, 1986, 4, 414-419.	1.3	39
112	In-situ structural investigations of ferroelasticity in soft and hard rhombohedral and tetragonal PZT. Journal of Applied Physics, 2015, 118, .	1.1	39
113	Piezoelectricity and Phase Transitions of the Mixed-Layer Bismuth Titanate Niobate Bi7Ti4NbO21. Journal of the American Ceramic Society, 1995, 78, 3142-3144.	1.9	38
114	Ferroelectric domain continuity over grain boundaries. Acta Materialia, 2017, 128, 400-405.	3.8	38
115	Giant domain wall contribution to the dielectric susceptibility in BaTiO3 single crystals. Applied Physics Letters, 2007, 91, .	1.5	37
116	Piezoelectric nonlinearity in ferroelectric thin films. Journal of Applied Physics, 2006, 100, 044107.	1.1	36
117	Piezoelectric properties of perovskite ferroelectrics: unsolved problems and future research. Annales De Chimie: Science Des Materiaux, 2001, 26, 99-106.	0.2	35
118	Piezoelectric Properties of SrBi₄Ti₄O₁₅ Ferroelectric Ceramics. Journal of Materials Research, 2002, 17, 1376-1384.	1.2	35
119	Large enhancement of the piezoelectric response in perovskite crystals by electric bias field antiparallel to polarization. Applied Physics Letters, 2004, 85, 2890-2892.	1.5	34
120	Connecting the Multiscale Structure with Macroscopic Response of Relaxor Ferroelectrics. Advanced Functional Materials, 2020, 30, 2006823.	7.8	34
121	Comparison of several methods to characterise the high frequency behaviour of piezoelectric ceramics for transducer applications. Ultrasonics, 2000, 38, 219-223.	2.1	33
122	Microstructure, structural defects, and piezoelectric response of Bi4Ti3O12 modified by Bi3TiNbO9. Journal of Applied Physics, 2000, 88, 7258-7263.	1.1	33
123	Electrical conductivity of strontium bismuth titanate under controlled oxygen partial pressure. Journal of the European Ceramic Society, 1999, 19, 1251-1254.	2.8	31
124	Electric-field-induced orthorhombic to rhombohedral phase transition in [111]C-oriented 0.92Pb(Zn1â•3Nb2â•3)O3â”0.08PbTiO3. Journal of Applied Physics, 2005, 97, 064101.	1.1	31
125	Electricâ€Fieldâ€Induced Domain Switching and Domain Texture Relaxations in Bulk Bismuth Ferrite. Journal of the American Ceramic Society, 2015, 98, 3884-3890.	1.9	31
126	Diffusion of 51Cr in Surface Layers of Magnesia, Alumina, and Spinel. Journal of the American Ceramic Society, 1985, 68, 181-184.	1.9	30

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127	Nonlinear contributions to dielectric and piezoelectric properties in lead zirconate titanate thin films. Ferroelectrics, 1999, 224, 299-306.	0.3	30
128	Anharmonicity ofBaTiO3single crystals. Physical Review B, 2006, 73, .	1.1	30
129	Stretchable piezoelectric elastic composites for sensors and energy generators. Composites Part B: Engineering, 2020, 198, 108211.	5.9	30
130	Structure and the Electrical Properties of <scp><scp>Pb(Zr,Ti)O₃</scp></scp> â€“ Zirconia Composites. Journal of the American Ceramic Society, 2012, 95, 651-657.	1.9	29
131	An Allâ€Organic Elastomeric Electret Composite. Advanced Materials, 2017, 29, 1603813.	11.1	29
132	Pb(Mg1/3Nb2/3)O3and (1 - x)Pb(Mg1/3Nb2/3)O3- xPbTiO3Relaxor Ferroelectric Thick Films: Processing and Electrical Characterization. , 2004, 12, 151-161.		28
133	Frequency-dependent decoupling of domain-wall motion and lattice strain in bismuth ferrite. Nature Communications, 2018, 9, 4928.	5.8	28
134	Giant shape memory and domain memory effects in antiferroelectric single crystals. Materials Horizons, 2019, 6, 1699-1706.	6.4	27
135	PZT films for micro-pumps. Integrated Ferroelectrics, 1995, 8, 13-23.	0.3	26
136	Effect of K_{0.5}Na_{0.5}NbO₃on Properties at and off the Morphotropic Phase Boundary in Bi_{0.5}Na_{0.5}TiO₃â€“Bi_{0.5}K_{0.5}TiO₃Ceramics. Japanese Journal of Applied Physics, 2011, 50, 055802.	0.8	26
137	Lead-Free Relaxor-Like 0.75Bi_{0.5}K_{0.5}TiO₃â€“ 0.25BiFeO₃Ceramics with Large Electric Field-Induced Strain. Ferroelectrics, 2012, 439, 88-94.	0.3	26
138	Critical mechanical and electrical transition behavior of BaTiO3: The observation of mechanical double loop behavior. Journal of Applied Physics, 2012, 112, .	1.1	25
139	Textured BaTiO3 by templated grain growth and electrophoretic deposition. Journal of Materials Science, 2015, 50, 7896-7907.	1.7	25
140	Piezoelectric hysteresis analysis and loss separation. Journal of Applied Physics, 2001, 90, 4668-4675.	1.1	24
141	An in situ diffraction study of domain wall motion contributions to the frequency dispersion of the piezoelectric coefficient in lead zirconate titanate. Applied Physics Letters, 2013, 102, .	1.5	24
142	The effect of boundary conditions and sample aspect ratio on apparent d/sub 33/ piezoelectric coefficient determined by direct quasistatic method. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 262-270.	1.7	23
143	Toward a unified description of nonlinearity and frequency dispersion of piezoelectric and dielectric responses in Pb(Zr,Ti)O3. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 170-174.	1.7	23
144	Strain-modulated piezoelectric and electrostrictive nonlinearity in ferroelectric thin films without active ferroelastic domain walls. Journal of Applied Physics, 2011, 110, 124104.	1.1	23

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145	Symmetry breaking in hexagonal and cubic polymorphs of BaTiO3. Journal of Applied Physics, 2016, 119, .	1.1	23
146	Modified Lead Calcium Titanate Ceramics with a Relatively Large Dielectric Constant for Hydrophone Applications. Journal of the American Ceramic Society, 1994, 77, 857-859.	1.9	22
147	Solid Solutions of Lead Metaniobateâ€"Stabilization of the Ferroelectric Polymorph and the Effect on the Lattice Parameters, Dielectric, Ferroelectric, and Piezoelectric Properties. Journal of the American Ceramic Society, 2014, 97, 220-227.	1.9	22
148	Asymmetric structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>90</mml:mn><mml:mo>â˜</mml:mo></mml:msup></m walls and interactions with defects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PbTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2016, 93, .	1.1	22
149	Nonlinear dynamics of polar regions in paraelectric phase of (Ba1-x,Srx)TiO3 ceramics. Applied Physics Letters, 2017, 110, .	1.5	22
150	Uniaxial-stress induced phase transitions in [001]C-poled 0.955Pb(Zn1âˆ•3Nb2âˆ•3)O3â€“0.045PbTiO3. Applied Physics Letters, 2007, 90, 152907.	1.5	21
151	Dielectric and piezoelectric properties of PZT ceramics with anisotropic porosity. Journal of Electroceramics, 2010, 24, 170-176.	0.8	21
152	Nanoscale Defect Engineering and the Resulting Effects on Domain Wall Dynamics in Ferroelectric Thin Films. Advanced Functional Materials, 2017, 27, 1605196.	7.8	21
153	Phase field simulations of ferroelastic toughening: The influence of phase boundaries and domain structures. Acta Materialia, 2012, 60, 5172-5181.	3.8	20
154	Freeâ€Carrierâ€Compensated Charged Domain Walls Produced with Superâ€Bandgap Illumination in Insulating Ferroelectrics. Advanced Materials, 2016, 28, 9498-9503.	11.1	20
155	Domain walls and defects in ferroelectric materials. Japanese Journal of Applied Physics, 2017, 56, 10PA01.	0.8	20
156	Pyroelectric and dielectric properties of pmn-based ceramics under dc bias. Ferroelectrics, 1991, 118, 143-155.	0.3	19
157	Evidence for dielectric aging due to progressive<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 pinning in polydomain<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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163	Strain generation and energy-conversion mechanisms in lead-based and lead-free piezoceramics. MRS Bulletin, 2018, 43, 588-594.	1.7	18
164	Electromechanical Properties of Calcium Modified Lead Titanate Ceramics. , 1986, , .		17
165	Properties of Piezoelectric Pzt Thin Films for Microactuator Applications. Materials Research Society Symposia Proceedings, 1994, 360, 429.	0.1	14
166	Fatigue and nonlinear dielectric response in sol-gel derived lead zirconate titanate thin films. Ferroelectrics, 1999, 225, 91-97.	0.3	13
167	Development of relaxor ferroelectric materials for screen-printing on alumina and silicon substrates. Journal of the European Ceramic Society, 2005, 25, 2125-2128.	2.8	13
168	Electrical characterization of sputter-deposited ZnO coatings on optical fibers. Sensors and Actuators A: Physical, 1997, 63, 153-160.	2.0	12
169	Analysis of the Non Linear Domain Wall Response in Ferroelectric Thin Films. Ferroelectrics, 2004, 303, 59-63.	0.3	12
170	Correlation between dielectric anisotropy and positive or zero transverse piezoelectric coefficients in perovskite ferroelectric single crystals. Applied Physics Letters, 2005, 87, 102904.	1.5	12
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