Jacob Jones

List of Publications by Year in descending order

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288 papers	13,844 citations	24978 57 h-index	27345 106 g-index
295 all docs	295 docs citations	295 times ranked	10092 citing authors

#	Article	IF	Citations
1	Entropy-stabilized oxides. Nature Communications, 2015, 6, 8485.	5.8	1,624
2	Evolving morphotropic phase boundary in lead-free (Bi1/2Na1/2)TiO3â€“BaTiO3 piezoceramics. Journal of Applied Physics, 2011, 109, .	1.1	405
3	Advances in Lead-Free Piezoelectric Materials for Sensors and Actuators. Sensors, 2010, 10, 1935-1954.	2.1	390
4	<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
5	Electric-field-induced phase transformation at a lead-free morphotropic phase boundary: Case study in a 93%(Bi0.5Na0.5)TiO3â€“7%â€‚BaTiO3 piezoelectric ceramic. Applied Physics Letters, 2009, 95, 032904.	1.5	348
6	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
7	Monoclinic crystal structure of polycrystalline Na0.5Bi0.5TiO3. Applied Physics Letters, 2011, 98, .	1.5	284
8	A comprehensive study on the structural evolution of HfO₂thin films doped with various dopants. Journal of Materials Chemistry C, 2017, 5, 4677-4690.	2.7	250
9	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. Chemistry of Materials, 2013, 25, 1621-1629.	3.2	242
10	Lanthanum-Doped Hafnium Oxide: A Robust Ferroelectric Material. Inorganic Chemistry, 2018, 57, 2752-2765.	1.9	241
11	Electric-field-induced phase-change behavior in (Bi0.5Na0.5)TiO3â€“BaTiO3â€“(K0.5Na0.5)NbO3: A combinatorial investigation. Acta Materialia, 2010, 58, 2103-2111.	3.8	210
12	Domain texture distributions in tetragonal lead zirconate titanate by x-ray and neutron diffraction. Journal of Applied Physics, 2005, 97, 034113.	1.1	199
13	Breaking of macroscopic centric symmetry in paraelectric phases of ferroelectric materials andÂimplications for flexoelectricity. Nature Materials, 2015, 14, 224-229.	13.3	183
14	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:	1.1	175
15	Crystal Structureâ€“Ionic Conductivity Relationships in Doped Ceria Systems. Journal of the American Ceramic Society, 2009, 92, 2674-2681.	1.9	172
16	TaN interface properties and electric field cycling effects on ferroelectric Si-doped HfO2 thin films. Journal of Applied Physics, 2015, 117, .	1.1	165
17	Domain Wall Displacement is the Origin of Superior Permittivity and Piezoelectricity in BaTiO₃ at Intermediate Grain Sizes. Advanced Functional Materials, 2014, 24, 885-896.	7.8	164
18	Direct measurement of the domain switching contribution to the dynamic piezoelectric response in ferroelectric ceramics. Applied Physics Letters, 2006, 89, 092901.	1.5	162

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19	Factors Favoring Ferroelectricity in Hafnia: A First-Principles Computational Study. Journal of Physical Chemistry C, 2017, 121, 4139-4145.	1.5	158
20	The Role of Spontaneous Polarization in the Negative Thermal Expansion of Tetragonal PbTiO₃-Based Compounds. Journal of the American Chemical Society, 2011, 133, 11114-11117.	6.6	148
21	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Processâ€Structureâ€Property Relations. Journal of the American Ceramic Society, 2016, 99, 2537-2557.	1.9	146
22	Si Doped Hafnium Oxideâ€”A â€œFragileâ€•Ferroelectric System. Advanced Electronic Materials, 2017, 3, 1700131.	2.6	136
23	Origin of Ferroelectric Phase in Undoped HfO₂ Films Deposited by Sputtering. Advanced Materials Interfaces, 2019, 6, 1900042.	1.9	118
24	Local atomic structure deviation from average structure of 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:	1.1	111
25	Flexible Inorganic Ferroelectric Thin Films for Nonvolatile Memory Devices. Advanced Functional Materials, 2017, 27, 1700461.	7.8	111
26	Relaxor-ferroelectric transitions: Sodium bismuth titanate derivatives. MRS Bulletin, 2018, 43, 600-606.	1.7	111
27	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
28	Ferroelectric phenomena in Si-doped HfO2 thin films with TiN and Ir electrodes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	110
29	Saturated domain switching textures and strains in ferroelastic ceramics. Journal of Applied Physics, 2005, 98, 024115.	1.1	104
30	Origin of the large electrostrain in BiFeO₃-BaTiO₃ based lead-free ceramics. Journal of Materials Chemistry A, 2019, 7, 21254-21263.	5.2	101
31	Current Understanding of Structureâ€“Processingâ€“Property Relationships in BaTiO₃â€“Bi(M)O₃ Dielectrics. Journal of the American Ceramic Society, 2016, 99, 2849-2870.	1.9	99
32	Texture and Anisotropy of Polycrystalline Piezoelectrics. Journal of the American Ceramic Society, 2007, 90, 2297-2314.	1.9	98
33	Local structure, pseudosymmetry, and phase transitions in Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</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>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" disp. Physical Review B, 2013, 87, .	1.1	97
34	Enhanced High-Temperature Piezoelectric Coefficients and Thermal Stability of Fe- and Mn-Substituted Na0.5Bi0.5TiO3 Ceramics. Journal of the American Ceramic Society, 2011, 94, 1314-1316.	1.9	96
35	Phase transition sequence in sodium bismuth titanate observed using high-resolution x-ray diffraction. Applied Physics Letters, 2011, 99, .	1.5	92
36	Domains, Domain Walls and Defects in Perovskite Ferroelectric Oxides: A Review of Present Understanding and Recent Contributions. Critical Reviews in Solid State and Materials Sciences, 2012, 37, 243-275.	6.8	88

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37	Domain wall and interphase boundary motion in a two-phase morphotropic phase boundary ferroelectric: Frequency dispersion and contribution to piezoelectric and dielectric properties. Physical Review B, 2012, 86, .	1.1	87
38	Domain wall motion and electromechanical strain in lead-free piezoelectrics: Insight from the model system (1 â^' x)Ba(Zr0.2Ti0.8)O3â€“x(Ba0.7Ca0.3)TiO3 using in situ high-energy X-ray diffraction during application of electric fields. Journal of Applied Physics, 2014, 115, .	1.1	87
39	Doped Hf0.5Zr0.5O2 for high efficiency integrated supercapacitors. Applied Physics Letters, 2017, 110, .	1.5	87
40	Dielectric and piezoelectric properties of 0.7 Pb(Mg_{1/3}Nb_{2/3})O₃-0.3 PbTiO₃ single crystal poled using alternating current. Materials Research Letters, 2018, 6, 537-544.	4.1	85
41	On the Origin of the Large Remanent Polarization in La:HfO₂. Advanced Electronic Materials, 2019, 5, 1900303.	2.6	85
42	Characterization of domain structures from diffraction profiles in tetragonal ferroelastic ceramics. Journal Physics D: Applied Physics, 2006, 39, 5294-5299.	1.3	82
43	Effect of Annealing Ferroelectric HfO₂ Thin Films: In Situ, High Temperature Xâ€Ray Diffraction. Advanced Electronic Materials, 2018, 4, 1800091.	2.6	81
44	Defect structure and materials â€œhardeningâ€•in Fe2O3-doped [Bi0.5Na0.5]TiO3 ferroelectrics. Applied Physics Letters, 2010, 97, .	1.5	79
45	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. Journal of Applied Physics, 2014, 115, .	1.1	71
46	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics II: Timeâ€Resolved Xâ€Ray Diffraction. Journal of the American Ceramic Society, 2009, 92, 2300-2310.	1.9	70
47	Processing of Manganese-Doped [Bi0.5Na0.5]TiO3 Ferroelectrics: Reduction and Oxidation Reactions During Calcination and Sintering. Journal of the American Ceramic Society, 2011, 94, 1363-1367.	1.9	70
48	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
49	Critical evaluation of the Lotgering degree of orientation texture indicator. Journal of Materials Research, 2004, 19, 3414-3422.	1.2	67
50	Origin of Temperatureâ€Dependent Ferroelectricity in Siâ€Doped HfO₂. Advanced Electronic Materials, 2018, 4, 1700489.	2.6	67
51	Influence of Oxygen Content on the Structure and Reliability of Ferroelectric Hf_xZr_{1â€“x}O₂ Layers. ACS Applied Electronic Materials, 2020, 2, 3618-3626.	2.0	65
52	Electric-field-induced local and mesoscale structural changes in polycrystalline dielectrics and ferroelectrics. Scientific Reports, 2015, 5, 14678.	1.6	63
53	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. Journal of Materials Chemistry A, 2019, 7, 2095-2105.	5.2	63
54	In situ X-ray diffraction study of the lithium excess layered oxide compound Li[Li0.2Ni0.2Mn0.6]O2 during electrochemical cycling. Solid State Ionics, 2012, 207, 44-49.	1.3	62

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55	Emerging lanthanum (III)-containing materials for phosphate removal from water: A review towards future developments. Environment International, 2020, 145, 106115.	4.8	62
56	Structure and ferroelectricity of nonstoichiometric (Na0.5Bi0.5)TiO3. Applied Physics Letters, 2014, 104, .	1.5	60
57	Many routes to ferroelectric HfO2: A review of current deposition methods. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	60
58	Origin of large recoverable strain in 0.94(Bi0.5Na0.5)TiO3-0.06BaTiO3 near the ferroelectric-relaxor transition. Applied Physics Letters, 2013, 102, .	1.5	58
59	Ferroelectric Si-Doped HfO₂ Device Properties on Highly Doped Germanium. IEEE Electron Device Letters, 2015, 36, 766-768.	2.2	57
60	Electrochemical Intercalation of Mg²⁺ into Anhydrous and Hydrated Crystalline Tungsten Oxides. Langmuir, 2017, 33, 9314-9323.	1.6	57
61	Compositional dependence of crystallization temperatures and phase evolution in hafnia-zirconia (HfxZr1â^'x)O2 thin films. Applied Physics Letters, 2020, 116, .	1.5	57
62	Time-Resolved Characterization of Ferroelectrics Using High-Energy X-Ray Diffraction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1539-1545.	1.7	55
63	Crack tip process zone domain switching in a soft lead zirconate titanate ceramic. Acta Materialia, 2007, 55, 5538-5548.	3.8	54
64	The effects of layering in ferroelectric Si-doped HfO2 thin films. Applied Physics Letters, 2014, 105, .	1.5	54
65	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. Chemistry of Materials, 2018, 30, 3538-3544.	3.2	52
66	Two-step polarization reversal in biased ferroelectrics. Journal of Applied Physics, 2014, 115, .	1.1	51
67	Domains and domain dynamics in fluorite-structured ferroelectrics. Applied Physics Reviews, 2021, 8, .	5.5	50
68	Ferroelastic domain switching in lead zirconate titanate measured by in situ neutron diffraction. Mechanics of Materials, 2007, 39, 283-290.	1.7	49
69	[illegible]	1.1	49
70	Deaging and Asymmetric Energy Landscapes in Electrically Biased Ferroelectrics. Physical Review Letters, 2012, 108, 177601.	2.9	48
71	Accelerated Thermal Decomposition of Graphene Oxide Films in Air via in Situ X-ray Diffraction Analysis. Journal of Physical Chemistry C, 2016, 120, 14984-14990.	1.5	48
72	Time-resolved diffraction measurements of electric-field-induced strain in tetragonal lead zirconate titanate. Journal of Applied Physics, 2007, 101, 094104.	1.1	47

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73	â€˜Time-resolved and orientation-dependent electric-field-induced strains in lead zirconate titanate ceramics. Applied Physics Letters, 2007, 90, 172909.	1.5	47
74	Electric field-induced phase transitions in Li-modified Na0.5K0.5NbO3 at the polymorphic phase boundary. Journal of Applied Physics, 2015, 117, .	1.1	47
75	Patterned nano-domains in PMN-PT single crystals. Acta Materialia, 2018, 143, 166-173.	3.8	47
76	A perspective on semiconductor devices based on fluorite-structured ferroelectrics from the materialsâ€“device integration perspective. Journal of Applied Physics, 2020, 128, .	1.1	47
77	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. Scientific Reports, 2016, 6, 38423.	1.6	45
78	Local structures of perovskite dielectrics and ferroelectrics via pair distribution function analyses. Journal of the European Ceramic Society, 2018, 38, 971-987.	2.8	45
79	Structure and properties of La-modified Na0.5Bi0.5TiO3 at ambient and elevated temperatures. Journal of Applied Physics, 2012, 112, .	1.1	44
80	Synthesis of <scp><scp>BaTiO</scp></scp>₃â€20wt%<scp><scp>CoFe</scp></scp>₂<scp><scp>O</scp></scp><sub>4 Nanocomposites via Spark Plasma Sintering. Journal of the American Ceramic Society, 2012, 95, 2504-2509.	1.9	44
81	Neutron diffraction study of the polarization reversal mechanism in [111]c-oriented Pb(Zn1â•3Nb2â•3)O3â€“xPbTiO3. Journal of Applied Physics, 2007, 101, 104108.	1.1	43
82	Frequency effects on fatigue crack growth and crack tip domain-switching behavior in a lead zirconate titanate ceramic. Acta Materialia, 2009, 57, 3932-3940.	3.8	42
83	External-field-induced crystal structure and domain texture in (1â€“x)Na0.5Bi0.5TiO3â€“xK0.5Bi0.5TiO3 piezoceramics. Acta Materialia, 2017, 127, 319-331.	3.8	40
84	Colossal Permittivity in Microwaveâ€Sintered Barium Titanate and Effect of Annealing on Dielectric Properties. Journal of the American Ceramic Society, 2013, 96, 485-490.	1.9	39
85	Simultaneous resonant x-ray diffraction measurement of polarization inversion and lattice strain in polycrystalline ferroelectrics. Scientific Reports, 2016, 6, 20829.	1.6	39
86	In situ measurement of increased ferroelectric/ferroelastic domain wall motion in declamped tetragonal lead zirconate titanate thin films. Journal of Applied Physics, 2015, 117, .	1.1	38
87	Local and average structures of BaTiO3-Bi(Zn1/2Ti1/2)O3. Journal of Applied Physics, 2016, 120, .	1.1	38
88	Effect of low-frequency alternating current poling on 5-mm-thick 0.7Pb(Mg1/3Nb2/3)O3-0.3PbTiO3 single crystals. Applied Physics Letters, 2019, 115, .	1.5	38
89	The contribution of 180Â° domain wall motion to dielectric properties quantified from in situ X-ray diffraction. Acta Materialia, 2017, 126, 36-43.	3.8	37
90	Thermally-induced loss of piezoelectricity in ferroelectric Na0.5Bi0.5TiO3â€“BaTiO3. Materials Letters, 2014, 115, 132-135.	1.3	36

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91	R-Curve and Stress?Strain Behavior of Ferroelastic Ceramics. Journal of the American Ceramic Society, 2006, 89, 3721-3727.	1.9	35
92	Accurate Nanoscale Crystallography in Real-Space Using Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 946-952.	0.2	35
93	Unexpectedly high piezoelectricity of Sm-doped lead zirconate titanate in the Curie point region. Scientific Reports, 2018, 8, 4120.	1.6	35
94	Giant dielectric phenomenon of Ba0.5Sr0.5TiO3/CaCu3Ti4O12 multilayers due to interfacial polarization for capacitor applications. Journal of the European Ceramic Society, 2019, 39, 1116-1121.	2.8	35
95	Accessing Legacy Phosphorus in Soils. Soil Systems, 2020, 4, 74.	1.0	35
96	Mixed Al and Si doping in ferroelectric HfO2 thin films. Applied Physics Letters, 2015, 107, .	1.5	34
97	Extensive domain wall contribution to strain in a (K,Na)NbO3-based lead-free piezoceramics quantified from high energy X-ray diffraction. Journal of the European Ceramic Society, 2016, 36, 2489-2494.	2.8	34
98	Deconvolved intrinsic and extrinsic contributions to electrostrain in high performance, Nb-doped Pb(Zr Ti1-)O3 piezoceramics (0.50 â‰¤ x â‰¤ 0.56). Acta Materialia, 2018, 158, 369-380.	3.8	34
99	Connecting the Multiscale Structure with Macroscopic Response of Relaxor Ferroelectrics. Advanced Functional Materials, 2020, 30, 2006823.	7.8	34
100	Anomalous reduction in domain wall displacement at the morphotropic phase boundary of the piezoelectric alloy system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PbTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>â^’</mml:mo><mml:mi>BiSc</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	33
101	Effect of High Cobalt Concentration on Hopping Motion in Cobalt Manganese Spinel Oxide (Co_xMn_{3â€“x}O₄, x â‰¥ 2.3). Journal of Physical Chemistry C, 2016, 120, 13667-13674.	1.5	33
102	Impact of Iridium Oxide Electrodes on the Ferroelectric Phase of Thin Hf_{0.5}Zr_{0.5}O₂ Films. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100012.	1.2	33
103	The use of diffraction in the characterization of piezoelectric materials. Journal of Electroceramics, 2007, 19, 69-81.	0.8	32
104	Influence of natural organic matter and pH on phosphate removal by and filterable lanthanum release from lanthanum-modified bentonite. Water Research, 2021, 202, 117399.	5.3	32
105	Piezoelectric <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Ceramics Textured Using Needlelike <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Local structure in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mtext>â^’</mml:mtext><mml:mi>BiSc</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>dipole glasses. Physical Review B, 2016, 93, .	1.9	31
106	Journal of the American Ceramic Society, 2014, 97, 3818-3825.	1.1	31
107	Electric-field-induced structural changes in multilayer piezoelectric actuators during electrical and mechanical loading. Acta Materialia, 2017, 132, 96-105.	3.8	31
108	Best practices from nano-risk analysis relevant for other emerging technologies. Nature Nanotechnology, 2019, 14, 998-1001.	15.6	30

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109	Quantifying texture in ferroelectric bismuth titanate ceramics. Scripta Materialia, 2004, 51, 1123-1127.	2.6	29
110	Intermittent X-ray diffraction study of kinetics of delithiation in nano-scale LiFePO4. Journal of Power Sources, 2009, 189, 702-705.	4.0	28
111	CuNb_{1â^'x}Ta_xO₃(x â‰ 0.25) solid solutions: impact of Ta(<scp>v</scp>) substitution and Cu(<scp>i</scp>) deficiency on their structure, photocatalytic, and photoelectrochemical properties. Journal of Materials Chemistry A, 2016, 4, 3115-3126.	5.2	28
112	Few-layered metallic 1T-MoS₂/TiO₂ with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. Physical Chemistry Chemical Physics, 2017, 19, 28207-28215.	1.3	28
113	Determination of domain orientation in lead zirconate titanate ceramics by Raman spectroscopy. Applied Physics Letters, 2006, 88, 162903.	1.5	27
114	Flexoelectric characterization of BaTiO3-0.08Bi(Zn1/2Ti1/2)O3. Applied Physics Letters, 2017, 110, .	1.5	27
115	The study of radiation effects in emerging micro and nano electro mechanical systems (M and NEMs). Semiconductor Science and Technology, 2017, 32, 013005.	1.0	27
116	Field-induced polarization rotation and phase transitions in <mml:math		

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127	Rayleigh analysis of dielectric properties in textured K0.5Na0.5NbO3 ceramics. Journal of Applied Physics, 2014, 116, .	1.1	25
128	Electrocaloric fatigue of lead magnesium niobate mediated by an electric-field-induced phase transformation. Acta Materialia, 2019, 169, 275-283.	3.8	25
129	Phase coexistence and grain size effects on the functional properties of BaTiO3 ceramics. Journal of the European Ceramic Society, 2022, 42, 2230-2247.	2.8	25
130	Ferroelastic Fatigue of a Soft PZT Ceramic. Journal of the American Ceramic Society, 2005, 88, 2788-2792.	1.9	24
131	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
132	Extensive domain wall motion and deaging resistance in morphotropic 0.55Bi(Ni1/2Ti1/2)O3â€“0.45PbTiO3 polycrystalline ferroelectrics. Applied Physics Letters, 2014, 104, .	1.5	24
133	Measurement and analysis of field-induced crystallographic texture using curved position-sensitive diffraction detectors. Journal of Electroceramics, 2014, 32, 283-291.	0.8	24
134	Extrinsic response enhancement at the polymorphic phase boundary in piezoelectric materials. Applied Physics Letters, 2016, 108, .	1.5	24
135	Declamped Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobateâ€“Lead Titanate Thin Films. Advanced Functional Materials, 2017, 27, 1605014.	7.8	24
136	Enhanced piezoelectricity of thin film hafnia-zirconia (HZO) by inorganic flexible substrates. Applied Physics Letters, 2018, 113, .	1.5	24
137	Enhancing thermoelectric properties of NaCo2O4 ceramics through Na pre-treatment induced nano-decoration. Journal of Alloys and Compounds, 2019, 788, 91-101.	2.8	24
138	Influence of oxygen source on the ferroelectric properties of ALD grown Hf_{1-x}Zr_xO₂ films. Journal Physics D: Applied Physics, 2021, 54, 035102.	1.3	24
139	Field-induced antiferroelectric to ferroelectric transitions in (Pb1â€“xLax)(Zr0.90Ti0.10)1â€“x/4O3 investigated by in situ X-ray diffraction. Journal of the European Ceramic Society, 2017, 37, 4631-4636.	2.8	23
140	In situ neutron diffraction studies of a commercial, soft lead zirconate titanate ceramic: response to electric fields andÂmechanical stress. Applied Physics A: Materials Science and Processing, 2010, 99, 557-564.	1.1	22
141	Multiscale field-induced structure of (1-x)Pb(Mg1/3Nb2/3)O3â€“xPbTiO3 ceramics from combined techniques. Acta Materialia, 2018, 154, 14-24.	3.8	22
142	Pushing the Limits of Metastability in Semiconducting Perovskite Oxides for Visible-Light-Driven Water Oxidation. Chemistry of Materials, 2020, 32, 3054-3064.	3.2	22
143	Temperatureâ€Dependent Phase Transitions in Hf_xZr_{1â€x}O₂ Mixed Oxides: Indications of a Proper Ferroelectric Material. Advanced Electronic Materials, 2022, 8, .	2.6	22
144	PROCESSING AND PROPERTIES OF Na_{0.5}Bi_{0.5}TiO₃ PIEZOELECTRIC CERAMICS MODIFIED WITH La, Mn AND Fe. Functional Materials Letters, 2010, 03, 45-48.	0.7	21

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145	Temperature-induced local and average structural changes in BaTiO3â^'xBi(Zn1/2Ti1/2)O3 solid solutions: The origin of high temperature dielectric permittivity. Journal of Applied Physics, 2017, 122, .	1.1	21
146	Thickness dependent response of domain wall motion in declamped {001} Pb(Zr0Â·3Ti0.7)O3 thin films. Acta Materialia, 2018, 151, 243-252.	3.8	21
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