

Jacob Jones

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279
papers

10,119
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51
h-index

90
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295
ext. papers

11,992
ext. citations

4.7
avg, IF

6.42
L-index

#	Paper	IF	Citations
279	Entropy-stabilized oxides. <i>Nature Communications</i> , 2015 , 6, 8485	17.4	802
278	Evolving morphotropic phase boundary in lead-free (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ piezoceramics. <i>Journal of Applied Physics</i> , 2011 , 109, 014110	2.5	361
277	Electric-field-induced phase transformation at a lead-free morphotropic phase boundary: Case study in a 93%(Bi _{0.5} Na _{0.5})TiO ₃ 7% BaTiO ₃ piezoelectric ceramic. <i>Applied Physics Letters</i> , 2009 , 95, 032904	3.4	311
276	Advances in lead-free piezoelectric materials for sensors and actuators. <i>Sensors</i> , 2010 , 10, 1935-54	3.8	302
275	BiFeO ₃ Ceramics: Processing, Electrical, and Electromechanical Properties. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1993-2011	3.8	288
274	Origins of Electro-Mechanical Coupling in Polycrystalline Ferroelectrics During Subcoercive Electrical Loading. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 293-309	3.8	253
273	Monoclinic crystal structure of polycrystalline Na _{0.5} Bi _{0.5} TiO ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 152901	3.4	253
272	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. <i>Chemistry of Materials</i> , 2013 , 25, 1621-1629	9.6	209
271	Electric-field-induced phase-change behavior in (Bi _{0.5} Na _{0.5})TiO ₃ BaTiO ₃ (K _{0.5} Na _{0.5})NbO ₃ : A combinatorial investigation. <i>Acta Materialia</i> , 2010 , 58, 2103-2111	8.4	185
270	A comprehensive study on the structural evolution of HfO ₂ thin films doped with various dopants. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4677-4690	7.1	174
269	Lanthanum-Doped Hafnium Oxide: A Robust Ferroelectric Material. <i>Inorganic Chemistry</i> , 2018 , 57, 2752-2765	3.7	161
268	Domain texture distributions in tetragonal lead zirconate titanate by x-ray and neutron diffraction. <i>Journal of Applied Physics</i> , 2005 , 97, 034113	2.5	161
267	Breaking of macroscopic centric symmetry in paraelectric phases of ferroelectric materials and implications for flexoelectricity. <i>Nature Materials</i> , 2015 , 14, 224-9	27	151
266	Structure and properties of Fe-modified Na _{0.5} Bi _{0.5} TiO ₃ at ambient and elevated temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	148
265	Crystal Structure and Ionic Conductivity Relationships in Doped Ceria Systems. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2674-2681	3.8	140
264	Direct measurement of the domain switching contribution to the dynamic piezoelectric response in ferroelectric ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 092901	3.4	134
263	TaN interface properties and electric field cycling effects on ferroelectric Si-doped HfO ₂ thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 134105	2.5	130

262	Domain Wall Displacement is the Origin of Superior Permittivity and Piezoelectricity in BaTiO ₃ at Intermediate Grain Sizes. <i>Advanced Functional Materials</i> , 2014 , 24, 885-896	15.6	123
261	The role of spontaneous polarization in the negative thermal expansion of tetragonal PbTiO ₃ -based compounds. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11114-7	16.4	122
260	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2537-2557	3.8	108
259	Factors Favoring Ferroelectricity in Hafnia: A First-Principles Computational Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4139-4145	3.8	105
258	Si Doped Hafnium Oxide A Fragile Ferroelectric System. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700131	6.4	105
257	Structure and phase transitions in 0.5(Ba _{0.7} Ca _{0.3} TiO ₃)-0.5(BaZr _{0.2} Ti _{0.8} O ₃) from 100 °C to 150 °C. <i>Journal of Applied Physics</i> , 2013 , 113, 014103	2.5	99
256	Local atomic structure deviation from average structure of Na _{0.5} Bi _{0.5} TiO ₃ : Combined x-ray and neutron total scattering study. <i>Physical Review B</i> , 2013 , 87,	3.3	94
255	Saturated domain switching textures and strains in ferroelastic ceramics. <i>Journal of Applied Physics</i> , 2005 , 98, 024115	2.5	91
254	Flexible Inorganic Ferroelectric Thin Films for Nonvolatile Memory Devices. <i>Advanced Functional Materials</i> , 2017 , 27, 1700461	15.6	90
253	Ferroelectric phenomena in Si-doped HfO ₂ thin films with TiN and Ir electrodes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 03D123	1.3	88
252	Texture and Anisotropy of Polycrystalline Piezoelectrics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2297-2314	3.8	83
251	Phase transition sequence in sodium bismuth titanate observed using high-resolution x-ray diffraction. <i>Applied Physics Letters</i> , 2011 , 99, 222901	3.4	81
250	Local structure, pseudosymmetry, and phase transitions in Na _{1/2} Bi _{1/2} TiO ₃ /Bi _{1/2} TiO ₃ ceramics. <i>Physical Review B</i> , 2013 , 87,	3.3	79
249	Enhanced High-Temperature Piezoelectric Coefficients and Thermal Stability of Fe- and Mn-Substituted Na _{0.5} Bi _{0.5} TiO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1314-1316	3.8	79
248	Relaxor-ferroelectric transitions: Sodium bismuth titanate derivatives. <i>MRS Bulletin</i> , 2018 , 43, 600-606	3.2	74
247	Domain wall and interphase boundary motion in a two-phase morphotropic phase boundary ferroelectric: Frequency dispersion and contribution to piezoelectric and dielectric properties. <i>Physical Review B</i> , 2012 , 86,	3.3	73
246	Characterization of domain structures from diffraction profiles in tetragonal ferroelastic ceramics. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 5294-5299	3	72
245	Current Understanding of Structure-Processing-Property Relationships in BaTiO ₃ Bi(M)O ₃ Dielectrics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2849-2870	3.8	69

244	Domain wall motion and electromechanical strain in lead-free piezoelectrics: Insight from the model system $(1-x)\text{Ba}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_{3-x}(\text{Ba}_{0.7}\text{Ca}_{0.3})\text{TiO}_3$ using in situ high-energy X-ray diffraction during application of electric fields. <i>Journal of Applied Physics</i> , 2014 , 115, 144104	2.5	69
243	Domains, Domain Walls and Defects in Perovskite Ferroelectric Oxides: A Review of Present Understanding and Recent Contributions. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012 , 37, 243-275	10.1	69
242	Origin of Ferroelectric Phase in Undoped HfO ₂ Films Deposited by Sputtering. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900042	4.6	68
241	Defect structure and materials hardening in Fe ₂ O ₃ -doped [Bi _{0.5} Na _{0.5}]TiO ₃ ferroelectrics. <i>Applied Physics Letters</i> , 2010 , 97, 012903	3.4	65
240	Doped Hf _{0.5} Zr _{0.5} O ₂ for high efficiency integrated supercapacitors. <i>Applied Physics Letters</i> , 2017 , 110, 232904	3.4	63
239	Processing of Manganese-Doped [Bi _{0.5} Na _{0.5}]TiO ₃ Ferroelectrics: Reduction and Oxidation Reactions During Calcination and Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1363-1367 ^{2.8}	3.8	63
238	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics II: Time-Resolved X-Ray Diffraction. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2300-2310	3.8	62
237	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. <i>Journal of Applied Physics</i> , 2014 , 115, 084111	2.5	60
236	In situ X-ray diffraction study of the lithium excess layered oxide compound Li[Li _{0.2} Ni _{0.2} Mn _{0.6}]O ₂ during electrochemical cycling. <i>Solid State Ionics</i> , 2012 , 207, 44-49	3.3	55
235	Critical evaluation of the Lotgering degree of orientation texture indicator. <i>Journal of Materials Research</i> , 2004 , 19, 3414-3422	2.5	54
234	Origin of the large electrostrain in BiFeO ₃ -BaTiO ₃ based lead-free ceramics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21254-21263	13	53
233	Electric-field-induced local and mesoscale structural changes in polycrystalline dielectrics and ferroelectrics. <i>Scientific Reports</i> , 2015 , 5, 14678	4.9	53
232	Origin of large recoverable strain in 0.94(Bi _{0.5} Na _{0.5})TiO ₃ -0.06BaTiO ₃ near the ferroelectric-relaxor transition. <i>Applied Physics Letters</i> , 2013 , 102, 062902	3.4	53
231	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics I: Nonlinearities and Losses in the Converse Piezoelectric Effect. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2291-2299 ^{2.8}	3.8	53
230	Crack tip process zone domain switching in a soft lead zirconate titanate ceramic. <i>Acta Materialia</i> , 2007 , 55, 5538-5548	8.4	52
229	Dielectric and piezoelectric properties of 0.7 Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3 PbTiO ₃ single crystal poled using alternating current. <i>Materials Research Letters</i> , 2018 , 6, 537-544	7.4	51
228	On the Origin of the Large Remanent Polarization in La:HfO ₂ . <i>Advanced Electronic Materials</i> , 2019 , 5, 1900303	6.4	50
227	Effect of Annealing Ferroelectric HfO ₂ Thin Films: In Situ, High Temperature X-Ray Diffraction. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800091	6.4	48

226	The effects of layering in ferroelectric Si-doped HfO ₂ thin films. <i>Applied Physics Letters</i> , 2014 , 105, 072904	3.4	47
225	Structure and ferroelectricity of nonstoichiometric (Na _{0.5} Bi _{0.5})TiO ₃ . <i>Applied Physics Letters</i> , 2014 , 104, 112904	3.4	47
224	Time-resolved characterization of ferroelectrics using high-energy X-ray diffraction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1539-45	3.2	47
223	Ferroelectric Si-Doped HfO ₂ Device Properties on Highly Doped Germanium. <i>IEEE Electron Device Letters</i> , 2015 , 36, 766-768	4.4	46
222	Ferroelastic domain switching in lead zirconate titanate measured by in situ neutron diffraction. <i>Mechanics of Materials</i> , 2007 , 39, 283-290	3.3	46
221	Deaging and asymmetric energy landscapes in electrically biased ferroelectrics. <i>Physical Review Letters</i> , 2012 , 108, 177601	7.4	45
220	Origin of Temperature-Dependent Ferroelectricity in Si-Doped HfO ₂ . <i>Advanced Electronic Materials</i> , 2018 , 4, 1700489	6.4	44
219	Nonlinear stress-strain behavior and stress-induced phase transitions in soft Pb(Zr _{1-x} Ti _x)O ₃ at the morphotropic phase boundary. <i>Physical Review B</i> , 2013 , 87,	3.3	44
218	Synthesis of BaTiO ₃ -20wt%CoFe ₂ O ₄ Nanocomposites via Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2504-2509	3.8	41
217	Electric field-induced phase transitions in Li-modified Na _{0.5} K _{0.5} NbO ₃ at the polymorphic phase boundary. <i>Journal of Applied Physics</i> , 2015 , 117, 024101	2.5	41
216	Time-resolved diffraction measurements of electric-field-induced strain in tetragonal lead zirconate titanate. <i>Journal of Applied Physics</i> , 2007 , 101, 094104	2.5	41
215	Time-resolved and orientation-dependent electric-field-induced strains in lead zirconate titanate ceramics. <i>Applied Physics Letters</i> , 2007 , 90, 172909	3.4	41
214	Two-step polarization reversal in biased ferroelectrics. <i>Journal of Applied Physics</i> , 2014 , 115, 224104	2.5	40
213	Structure and properties of La-modified Na _{0.5} Bi _{0.5} TiO ₃ at ambient and elevated temperatures. <i>Journal of Applied Physics</i> , 2012 , 112, 054111	2.5	40
212	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2095-2105	13	39
211	Electrochemical Intercalation of Mg into Anhydrous and Hydrated Crystalline Tungsten Oxides. <i>Langmuir</i> , 2017 , 33, 9314-9323	4	39
210	Neutron diffraction study of the polarization reversal mechanism in [111] _c -oriented Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ . <i>Journal of Applied Physics</i> , 2007 , 101, 104108	2.5	39
209	Accelerated Thermal Decomposition of Graphene Oxide Films in Air via in Situ X-ray Diffraction Analysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14984-14990	3.8	39

208	Frequency effects on fatigue crack growth and crack tip domain-switching behavior in a lead zirconate titanate ceramic. <i>Acta Materialia</i> , 2009 , 57, 3932-3940	8.4	37
207	In situ measurement of increased ferroelectric/ferroelastic domain wall motion in de-clamped tetragonal lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 054103	2.5	34
206	Colossal Permittivity in Microwave-Sintered Barium Titanate and Effect of Annealing on Dielectric Properties. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 485-490	3.8	34
205	R-Curve and Stress-Strain Behavior of Ferroelastic Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3721-3727	3.8	34
204	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. <i>Scientific Reports</i> , 2016 , 6, 38423	4.9	34
203	Patterned nano-domains in PMN-PT single crystals. <i>Acta Materialia</i> , 2018 , 143, 166-173	8.4	33
202	External-field-induced crystal structure and domain texture in $(1-x)Na_{0.5}Bi_{0.5}TiO_3-xK_{0.5}Bi_{0.5}TiO_3$ piezoceramics. <i>Acta Materialia</i> , 2017 , 127, 319-331	8.4	32
201	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. <i>Chemistry of Materials</i> , 2018 , 30, 3538-3544	9.6	32
200	Thermally-induced loss of piezoelectricity in ferroelectric $Na_{0.5}Bi_{0.5}TiO_3-BaTiO_3$. <i>Materials Letters</i> , 2014 , 115, 132-135	3.3	32
199	Simultaneous resonant x-ray diffraction measurement of polarization inversion and lattice strain in polycrystalline ferroelectrics. <i>Scientific Reports</i> , 2016 , 6, 20829	4.9	31
198	Influence of Oxygen Content on the Structure and Reliability of Ferroelectric $Hf_{x}Zr_{1-x}O_2$ Layers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3618-3626	4	30
197	The contribution of 180° domain wall motion to dielectric properties quantified from in situ X-ray diffraction. <i>Acta Materialia</i> , 2017 , 126, 36-43	8.4	29
196	Accurate Nanoscale Crystallography in Real-Space Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 946-52	0.5	29
195	The use of diffraction in the characterization of piezoelectric materials. <i>Journal of Electroceramics</i> , 2007 , 19, 69-81	1.5	29
194	Emerging lanthanum (III)-containing materials for phosphate removal from water: A review towards future developments. <i>Environment International</i> , 2020 , 145, 106115	12.9	29
193	Mixed Al and Si doping in ferroelectric HfO_2 thin films. <i>Applied Physics Letters</i> , 2015 , 107, 242903	3.4	27
192	Quantifying texture in ferroelectric bismuth titanate ceramics. <i>Scripta Materialia</i> , 2004 , 51, 1123-1127	5.6	27
191	Local structures of perovskite dielectrics and ferroelectrics via pair distribution function analyses. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 971-987	6	27

190	Anomalous reduction in domain wall displacement at the morphotropic phase boundary of the piezoelectric alloy system $\text{PbTiO}_3\text{BiScO}_3$. <i>Physical Review B</i> , 2016 , 93,	3.3	26
189	Piezoelectric $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ Ceramics Textured Using Needlelike $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ Templates. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3818-3825	3.8	26
188	Intermittent X-ray diffraction study of kinetics of delithiation in nano-scale LiFePO_4 . <i>Journal of Power Sources</i> , 2009 , 189, 702-705	8.9	26
187	Local and average structures of $\text{BaTiO}_3\text{-Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$. <i>Journal of Applied Physics</i> , 2016 , 120, 184102	2.5	26
186	Effect of low-frequency alternating current poling on 5-mm-thick $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.3\text{PbTiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2019 , 115, 192904	3.4	25
185	Ferroelastic domain switching fatigue in lead zirconate titanate ceramics. <i>Acta Materialia</i> , 2008 , 56, 1577-1587	1.587	25
184	Few-layered metallic $1\text{T-MoS}_2/\text{TiO}_2$ with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28207-28215	3.6	24
183	In situ characterization of polycrystalline ferroelectrics using x-ray and neutron diffraction. <i>Journal of Materials Research</i> , 2015 , 30, 340-356	2.5	24
182	Compositional dependence of crystallization temperatures and phase evolution in hafnia-zirconia ($\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$) thin films. <i>Applied Physics Letters</i> , 2020 , 116, 192901	3.4	24
181	$\text{CuNb}_{1-x}\text{Ta}_x\text{O}_3$ ($x \approx 0.25$) solid solutions: impact of Ta(V) substitution and Cu(I) deficiency on their structure, photocatalytic, and photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3115-3126	13	24
180	Ferroelastic Fatigue of a Soft PZT Ceramic. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2788-2792	3.8	24
179	Effect of High Cobalt Concentration on Hopping Motion in Cobalt Manganese Spinel Oxide ($\text{Co}_x\text{Mn}_{3-x}\text{O}_4$, $x \approx 0.3$). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13667-13674	3.8	23
178	Deconvolved intrinsic and extrinsic contributions to electrostrain in high performance, Nb-doped $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ piezoceramics (0.50 x 0.56). <i>Acta Materialia</i> , 2018 , 158, 369-380	8.4	23
177	Determination of domain orientation in lead zirconate titanate ceramics by Raman spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 162903	3.4	23
176	Extensive domain wall contribution to strain in a $(\text{K},\text{Na})\text{NbO}_3$ -based lead-free piezoceramics quantified from high energy X-ray diffraction. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2489-2494	6	23
175	Electric-field-induced structural changes in multilayer piezoelectric actuators during electrical and mechanical loading. <i>Acta Materialia</i> , 2017 , 132, 96-105	8.4	22
174	Crystal structure of $0.96(\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3)_{0.04}(\text{BaTiO}_3)$ from combined refinement of x-ray and neutron diffraction patterns. <i>Applied Physics Letters</i> , 2012 , 101, 152906	3.4	22
173	An in situ diffraction study of domain wall motion contributions to the frequency dispersion of the piezoelectric coefficient in lead zirconate titanate. <i>Applied Physics Letters</i> , 2013 , 102, 042911	3.4	22

172	In situ neutron diffraction studies of a commercial, soft lead zirconate titanate ceramic: response to electric fields and mechanical stress. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 557-564	2.6	22
171	High-throughput evaluation of domain switching in piezoelectric ceramics and application to PbZr _{0.6} Ti _{0.4} O ₃ doped with La and Fe. <i>Applied Physics Letters</i> , 2008 , 93, 152904	3.4	22
170	Giant dielectric phenomenon of Ba _{0.5} Sr _{0.5} TiO ₃ /CaCu ₃ Ti ₄ O ₁₂ multilayers due to interfacial polarization for capacitor applications. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1116-1121	6	22
169	The study of radiation effects in emerging micro and nano electro mechanical systems (M and NEMs). <i>Semiconductor Science and Technology</i> , 2017 , 32, 013005	1.8	21
168	Local structure in BaTiO ₃ BiScO ₃ dipole glasses. <i>Physical Review B</i> , 2016 , 93,	3.3	21
167	Ferroelectric/Ferroelastic domain wall motion in dense and porous tetragonal lead zirconate titanate films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 46-55	3.2	21
166	A perspective on semiconductor devices based on fluorite-structured ferroelectrics from the materials-device integration perspective. <i>Journal of Applied Physics</i> , 2020 , 128, 240904	2.5	21
165	Extrinsic response enhancement at the polymorphic phase boundary in piezoelectric materials. <i>Applied Physics Letters</i> , 2016 , 108, 142901	3.4	21
164	Flexoelectric characterization of BaTiO ₃ -0.08Bi(Zn _{1/2} Ti _{1/2})O ₃ . <i>Applied Physics Letters</i> , 2017 , 110, 222904	3.4	20
163	Electrocaloric fatigue of lead magnesium niobate mediated by an electric-field-induced phase transformation. <i>Acta Materialia</i> , 2019 , 169, 275-283	8.4	20
162	Measurement and analysis of field-induced crystallographic texture using curved position-sensitive diffraction detectors. <i>Journal of Electroceramics</i> , 2014 , 32, 283-291	1.5	20
161	Analysis methods for characterizing ferroelectric/ferroelastic domain reorientation in orthorhombic perovskite materials and application to Li-doped Na _{0.5} K _{0.5} NbO ₃ . <i>Journal of Materials Science</i> , 2013 , 48, 6905-6910	4.3	20
160	Stress-induced structural changes in La-doped BiFeO ₃ PbTiO ₃ high-temperature piezoceramics. <i>Acta Materialia</i> , 2010 , 58, 5962-5971	8.4	20
159	In Situ Observations of Templated Grain Growth in (Na _{0.5} K _{0.5}) _{0.98} Li _{0.02} NbO ₃ Piezoceramics: Texture Development and Template-Matrix Interactions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2653-2659	3.8	19
158	Extensive domain wall motion and deaging resistance in morphotropic 0.55Bi(Ni _{1/2} Ti _{1/2})O ₃ 0.45PbTiO ₃ polycrystalline ferroelectrics. <i>Applied Physics Letters</i> , 2014 , 104, 132907	3.4	19
157	Phase and texture evolution in solution deposited lead zirconate titanate thin films: Formation and role of the Pt ₃ Pb intermetallic phase. <i>Journal of Applied Physics</i> , 2013 , 113, 244101	2.5	19
156	Unexpectedly high piezoelectricity of Sm-doped lead zirconate titanate in the Curie point region. <i>Scientific Reports</i> , 2018 , 8, 4120	4.9	18
155	Use of Bayesian Inference in Crystallographic Structure Refinement via Full Diffraction Profile Analysis. <i>Scientific Reports</i> , 2016 , 6, 31625	4.9	18

154	Field-induced polarization rotation and phase transitions in 0.70Pb(Mg _{1/3} Nb _{2/3})O ₃ 0.30PbTiO ₃ piezoceramics observed by in situ high-energy x-ray scattering. <i>Physical Review B</i> , 2018 , 97,	3.3	18
153	Structural evidence for the nonmonotonic trend of TC in tetragonal PbTiO ₃ ?BiScO ₃ solid solutions. <i>Applied Physics Letters</i> , 2010 , 96, 252908	3.4	18
152	Domain switching anisotropy in textured bismuth titanate ceramics. <i>Journal of Applied Physics</i> , 2005 , 98, 104102	2.5	18
151	Domains and domain dynamics in fluorite-structured ferroelectrics. <i>Applied Physics Reviews</i> , 2021 , 8, 021312	17.3	18
150	Temperature-induced local and average structural changes in BaTiO ₃ Bi(Zn _{1/2} Ti _{1/2})O ₃ solid solutions: The origin of high temperature dielectric permittivity. <i>Journal of Applied Physics</i> , 2017 , 122, 064103	2.5	17
149	Crystal structure of Si-doped HfO ₂ . <i>Journal of Applied Physics</i> , 2014 , 115, 034104	2.5	17
148	Investigation of the domain switching zone near a crack tip in pre-poled lead zirconate titanate ceramic via in situ X-ray diffraction. <i>Scripta Materialia</i> , 2011 , 64, 1-4	5.6	17
147	PROCESSING AND PROPERTIES OF Na _{0.5} Bi _{0.5} TiO ₃ PIEZOELECTRIC CERAMICS MODIFIED WITH La, Mn AND Fe. <i>Functional Materials Letters</i> , 2010 , 03, 45-48	1.2	17
146	Measurement of structural changes in tetragonal PZT ceramics under static and cyclic electric fields using a laboratory X-ray diffractometer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1546-54	3.2	17
145	Structure and temperature-dependent phase transitions of lead-free Bi _{1/2} Na _{1/2} TiO ₃ Bi _{1/2} K _{1/2} TiO ₃ 0.5Na _{0.5} NbO ₃ piezoceramics. <i>Journal of Materials Research</i> , 2012 , 27, 2466-2478	2.5	17
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