

Michael J Hoffmann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187
papers

5,858
citations

43
h-index

67
g-index

199
ext. papers

6,476
ext. citations

4.5
avg, IF

5.85
L-index

#	Paper	IF	Citations
187	Upscaling of LATP synthesis: Stoichiometric screening of phase purity and microstructure to ionic conductivity maps. <i>Ionics</i> , 2021 , 27, 2017-2025	2.7	1
186	Uncovering the symmetry of the induced ferroelectric phase transformation in polycrystalline barium titanate. <i>Journal of Applied Physics</i> , 2021 , 130, 234101	2.5	0
185	Grain size effects in donor doped lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2020 , 128, 214105	2.5	8
184	Ferroelectric Poling of Methylammonium Lead Iodide Thin Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1908657	15.6	20
183	The mechanism of grain growth at general grain boundaries in SrTiO ₃ . <i>Scripta Materialia</i> , 2020 , 188, 206-211	3.61	5
182	Interpreting rheology and electrical conductivity: It all boils down to which particle size. <i>Journal of Colloid and Interface Science</i> , 2020 , 574, 97-109	9.3	2
181	Fabrication and Characterization of Fully Inkjet Printed Capacitors Based on Ceramic/Polymer Composite Dielectrics on Flexible Substrates. <i>Scientific Reports</i> , 2019 , 9, 13324	4.9	18
180	Development and characterization of half-cells based on thin solid state ionic conductors for Li-ion batteries. <i>Solid State Ionics</i> , 2019 , 333, 66-71	3.3	2
179	Non-Arrhenius grain growth in strontium titanate: Quantification of bimodal grain growth. <i>Acta Materialia</i> , 2019 , 174, 105-115	8.4	8
178	Internal load transfer in an interpenetrating metal/ceramic composite material studied using energy dispersive synchrotron X-ray diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 247-252	5.3	13
177	Influence of PbO stoichiometry on the properties of PZT ceramics and multilayer actuators. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5401-5414	3.8	6
176	Effect of drilling-induced damage on the open hole flexural fatigue of carbon/epoxy composites. <i>Composite Structures</i> , 2019 , 215, 238-248	5.3	16
175	Ferroelectric Properties of Perovskite Thin Films and Their Implications for Solar Energy Conversion. <i>Advanced Materials</i> , 2019 , 31, e1806661	24	61
174	Powder Injection Molding of Oxide Ceramic CMC. <i>Key Engineering Materials</i> , 2019 , 809, 148-152	0.4	3
173	On the ferroelectricity of CHNHPbI perovskites. <i>Nature Materials</i> , 2019 , 18, 1050	27	23
172	Characterization of grain boundary disconnections in SrTiO ₃ Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , 2019 , 54, 3710-3725	4.3	8
171	Processing and characterization of elastic and thermal expansion behaviour of interpenetrating Al ₁₂ Si/alumina composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 339-348	5.3	16

170	Characterization of grain boundary disconnections in SrTiO ₃ part I: the dislocation component of grain boundary disconnections. <i>Journal of Materials Science</i> , 2019 , 54, 3694-3709	4.3	10
169	Grain growth in strontium titanate in electric fields: The impact of space-charge on the grain-boundary mobility. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 3779-3790	3.8	19
168	Probing the Microstructure of Methylammonium Lead Iodide Perovskite Solar Cells. <i>Energy Technology</i> , 2019 , 7, 1800989	3.5	22
167	The role of point defects and defect gradients in flash sintering of perovskite oxides. <i>Acta Materialia</i> , 2019 , 165, 398-408	8.4	39
166	Anti-thermal grain growth in SrTiO ₃ : Coupled reduction of the grain boundary energy and grain growth rate constant. <i>Acta Materialia</i> , 2018 , 149, 11-18	8.4	18
165	On the importance of ferroelectric domains for the performance of perovskite solar cells. <i>Nano Energy</i> , 2018 , 48, 20-26	17.1	39
164	Effect of damage by hydroxyl generation on strength of silica fibers. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2724-2726	3.8	6
163	Diffusion of water in silica: Influence of moderate stresses. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1180-1190	3.8	7
162	Biaxial strength and slow crack growth in porous alumina with silica sintering aid. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 665-670	6	5
161	Reduction of the Sintering Temperature for the Manufacturing of Carbon-Rich Dense SiOC Bulk Ceramics. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800369	3.5	1
160	Control of the Surface Morphology of Ceramic/Polymer Composite Inks for Inkjet Printing. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800318	3.5	6
159	Tape casted thin films of solid electrolyte Lithium-Lanthanum-Titanate. <i>Solid State Ionics</i> , 2018 , 328, 25-29	3.5	6
158	A comparison of power controlled flash sintering and conventional sintering of strontium titanate. <i>Scripta Materialia</i> , 2017 , 130, 187-190	5.6	24
157	Double layer electrical conductivity as a stability criterion for concentrated colloidal suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 520, 9-16	5.1	8
156	Ferroelectric domains in methylammonium lead iodide perovskite thin-films. <i>Energy and Environmental Science</i> , 2017 , 10, 950-955	35.4	151
155	Diffusion of water in silica glass in the absence of stresses. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3895-3902	3.8	4
154	Identification of residual stress layers at glass surfaces via crack terminating angles. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4173-4179	3.8	1
153	Process Development for the Ceramic Injection Molding of Oxide Chopped Fiber Reinforced Aluminum Oxide. <i>Key Engineering Materials</i> , 2017 , 742, 231-237	0.4	3

152	The equilibrium crystal shape of strontium titanate: Impact of donor doping. <i>Scripta Materialia</i> , 2017 , 127, 118-121	5.6	9
151	The mechanism of grain boundary motion in SrTiO ₃ . <i>Journal of Materials Science</i> , 2016 , 51, 467-475	4.3	27
150	Phase-field study of pore-grain boundary interaction. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 329-339	1	16
149	Grain growth in weak electric fields in strontium titanate: Grain growth acceleration by defect redistribution. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2773-2780	6	23
148	Grain growth in perovskites: What is the impact of boundary transitions?. <i>Current Opinion in Solid State and Materials Science</i> , 2016 , 20, 286-298	12	28
147	Evolution of microstructure and its relation to ionic conductivity in Li _{1+x} Al _x Ti _{2-3x} (PO ₄) ₃ . <i>Solid State Ionics</i> , 2016 , 288, 235-239	3.3	46
146	Lithium Diffusion Pathway in Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ (LATP) Superionic Conductor. <i>Inorganic Chemistry</i> , 2016 , 55, 2941-5	5.1	131
145	Grain growth transitions of perovskite ceramics and their relationship to abnormal grain growth and bimodal microstructures. <i>Journal of Materials Science</i> , 2016 , 51, 1756-1765	4.3	23
144	Stress-Enhanced Swelling of Silica: Effect on Strength. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2956-2963	3.8	7
143	Sintering and grain growth in SrTiO ₃ : impact of defects on kinetics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 346-353	1	18
142	Precursor derived SiOC/MoSi ₂ -composites for diesel glow plugs: preparation and high temperature properties. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 1017-1022	1	4
141	Direct synthesis of trirutile-type LiMgFeF ₆ and its electrochemical characterization as positive electrode in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 274, 1200-1207	8.9	8
140	Anti-thermal behavior of materials. <i>Scripta Materialia</i> , 2015 , 103, 1-5	5.6	17
139	Volume Expansion Caused by Water Penetration into Silica Glass. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 78-87	3.8	37
138	Chemical and structural effects on the high-temperature mechanical behavior of (1-x)(Na _{1/2} Bi _{1/2})TiO ₃ -xBaTiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2015 , 117, 134110	2.5	25
137	A reversible wetting transition in strontium titanate and its influence on grain growth and the grain boundary mobility. <i>Acta Materialia</i> , 2015 , 101, 80-89	8.4	15
136	The Impact of Heat Treatment on the Domain Configuration and Strain Behavior in Pb[Zr,Ti]O ₃ Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 269-277	3.8	5
135	The equilibrium crystal shape of strontium titanate and its relationship to the grain boundary plane distribution. <i>Acta Materialia</i> , 2015 , 82, 32-40	8.4	46

134	Growth of single crystalline seeds into polycrystalline strontium titanate: Anisotropy of the mobility, intrinsic drag effects and kinetic shape of grain boundaries. <i>Acta Materialia</i> , 2015 , 95, 111-123	8.4	34
133	Mechanisms of aging and fatigue in ferroelectrics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 192, 52-82	3.1	205
132	Sol-Gel Processing and Electrochemical Conversion of Inverse Spinel-Type Li ₂ NiF ₄ . <i>Journal of the Electrochemical Society</i> , 2015 , 162, A679-A686	3.9	10
131	Non-Arrhenius behavior of grain growth in strontium titanate: New evidence for a structural transition of grain boundaries. <i>Scripta Materialia</i> , 2015 , 101, 68-71	5.6	49
130	Bimodal domain configuration and wedge formation in tetragonal Pb[Zr _{1-x} Ti _x]O ₃ ferroelectrics. <i>Computational Materials Science</i> , 2014 , 81, 123-132	3.2	6
129	Phase-Field Modeling of Diffusion Coupled Crack Propagation Processes. <i>Advanced Engineering Materials</i> , 2014 , 16, 142-146	3.5	13
128	Microstructure of sodium-potassium niobate ceramics sintered under high alkaline vapor pressure atmosphere. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4213-4221	6	22
127	Numerical Determination of the Effective Magnetic Path Length of a Single-Sheet Tester. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 929-932	2	13
126	Influence of temperature and upper cut-off voltage on the formation of lithium-ion cells. <i>Journal of Power Sources</i> , 2014 , 264, 100-107	8.9	27
125	Hot Isostatic Pressing and Gas-Pressure Sintering 2014 , 171-187		
124	Fatigue Threshold R-curves Predict Fatigue Endurance Strength for Self-Reinforced Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 577-583	3.8	3
123	A Novel Approach for the Processing of Advanced Polymer Derived Ceramics with Carbon Nanotubes with the Help of Pores. <i>Advanced Engineering Materials</i> , 2014 , 16, 295-300	3.5	5
122	Water Penetration's Effect on the Strength and Toughness of Silica Glass. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1164-1174	2.3	28
121	A micromechanically motivated finite element approach to the fracture toughness of silicon nitride. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1729-1736	6	9
120	Sintering and microstructure of potassium niobate ceramics with stoichiometric composition and with potassium- or niobium excess. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2127-2139	6	11
119	The effect of water penetration on crack growth in silica glass. <i>Engineering Fracture Mechanics</i> , 2013 , 100, 3-16	4.2	28
118	Fatigue Crack Growth Behavior of Silicon Nitride: Roles of Grain Aspect Ratio and Intergranular Film Composition. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 259-265	3.8	9
117	Interactions of defect complexes and domain walls in CuO-doped ferroelectric (K,Na)NbO ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 242908	3.4	55

116	Characterization of Elastic Properties in Porous Silicon Carbide Preforms Fabricated Using Polymer Waxes as Pore Formers. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2269-2275	3.8	8
115	The Role of Binder Adsorption for High Solid Loading Nano-Zirconia Extrusion Pastes. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 1901-1910	3.8	
114	Processing and Elastic Property Characterization of Porous SiC Preform for Interpenetrating Metal/Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3078-3083	3.8	21
113	Critical mechanical and electrical transition behavior of BaTiO ₃ : The observation of mechanical double loop behavior. <i>Journal of Applied Physics</i> , 2012 , 112, 124101	2.5	20
112	High capacity vertical aligned carbon nanotube/sulfur composite cathodes for lithium-sulfur batteries. <i>Chemical Communications</i> , 2012 , 48, 4097-9	5.8	257
111	Hot Isostatic Pressing and Gas-Pressure Sintering 2012 , 171-187		1
110	Effect of Water on the Inert Strength of Silica Glass: Role of Water Penetration. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3847-3853	3.8	17
109	Influence of the A/B nonstoichiometry, composition modifiers, and preparation methods on properties of Li- and Ta-modified (K,Na)NbO ₃ ceramics. <i>Journal of Applied Physics</i> , 2012 , 112, 114107	2.5	5
108	Universal Polarization Switching Behavior of Disordered Ferroelectrics. <i>Advanced Functional Materials</i> , 2012 , 22, 2058-2066	15.6	70
107	Fabrication and High Temperature Creep Behaviour of Interpenetrated Nickel-Chromium/Alumina Composites. <i>Advanced Engineering Materials</i> , 2012 , 14, 795-801	3.5	2
106	A Residual Stress Intensity Factor Solution for Knoop Indentation Cracks. <i>International Journal of Fracture</i> , 2012 , 175, 65-71	2.3	3
105	Processing and Properties of Co-Extruded Lead Zirconate Titanate Fibers. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 108-116	3.8	6
104	Influence of the A/B Stoichiometry on Defect Structure, Sintering, and Microstructure in Undoped and Cu-Doped KNN 2012 , 209-251		1
103	In situ neutron diffraction study of electric field induced structural transitions in lanthanum doped lead zirconate titanate. <i>Zeitschrift für Kristallographie</i> , 2011 , 226, 155-162		9
102	An Overview of the Structure and Properties of Silicon-Based Oxynitride Glasses. <i>International Journal of Applied Glass Science</i> , 2011 , 2, 63-83	1.8	54
101	Electric Field-Assisted Sintering in Comparison with the Hot Pressing of Ytria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 24-31	3.8	51
100	Crack-Tip Toughness from Vickers Crack-Tip Opening Displacements for Materials with Strongly Rising R-Curves. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1884-1892	3.8	17
99	Electric Field-Assisted Sintering and Hot Pressing of Semiconductive Zinc Oxide: A Comparative Study. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2344-2353	3.8	29

98	Effect of Water Penetration on the Strength and Toughness of Silica Glass. <i>Journal of the American Ceramic Society</i> , 2011 , 94, s196-s203	3.8	37
97	Interaction of Modified (K,Na)NbO ₃ Ceramics with Ag-Containing Electrodes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3591-3595	3.8	11
96	Sinter-HIP of polymer-derived Al ₂ O ₃ /SiC composites with high SiC contents. <i>Materials Letters</i> , 2011 , 65, 2462-2465	3.3	10
95	CuO-doped NaNbO ₃ antiferroelectrics: Impact of aliovalent doping and nonstoichiometry on the defect structure and formation of secondary phases. <i>Physical Review B</i> , 2011 , 84,	3.3	23
94	Homogenization of the thermoelastic properties of silicon nitride. <i>Acta Materialia</i> , 2011 , 59, 6029-6038	8.4	17
93	Preparation of Optically Transparent Open-Celled Foams and its Morphological Characterization Employing Volume Image Analysis. <i>Advanced Engineering Materials</i> , 2011 , 13, 1060-1065	3.5	1
92	Preparation of Transparent Glass Sponges via Replica Method using High-Purity Silica. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 111-114	3.8	7
91	Determination of Subcritical Crack Growth Parameters in Polymer-Derived SiOC Ceramics by Biaxial Bending Tests in Water Environment. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1540	3.8	7
90	Influence of Alkaline and Niobium Excess on Sintering and Microstructure of Sodium-Potassium Niobate (K _{0.5} Na _{0.5})NbO ₃ . <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1270	3.8	71
89	Estimation of the High-Temperature R Curve for Ceramics from Strength Measurements Including Specimens with Focused Ion Beam Notches. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2411-2414	3.8	9
88	R Curves from Compliance and Optical Crack-Length Measurements. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2814-2821	3.8	20
87	DEFECT STRUCTURE OF COPPER DOPED POTASSIUM NIOBATE CERAMICS. <i>Functional Materials Letters</i> , 2010 , 03, 19-24	1.2	26
86	HIGH ELECTRIC FIELD INDUCED STRAIN IN SOLID-STATE ROUTE PROCESSED BARIUM TITANATE CERAMICS. <i>Functional Materials Letters</i> , 2010 , 03, 59-64	1.2	11
85	Effects of sintering temperature on microstructure and high field strain of niobium-strontium doped morphotropic lead zirconate titanate. <i>Journal of Applied Physics</i> , 2010 , 107, 054111	2.5	28
84	Influence of lanthanum doping on the morphotropic phase boundary of lead zirconate titanate. <i>Journal of Applied Physics</i> , 2010 , 108, 024110	2.5	28
83	Failure of Alumina in Torsion Tests. <i>Advanced Engineering Materials</i> , 2010 , 12, 942-947	3.5	
82	Linking Grain Boundaries and Grain Growth in Ceramics. <i>Advanced Engineering Materials</i> , 2010 , 12, 1230-1234	3.5	14
81	Structural Characterization of Cu ²⁺ Functional Centers In Lead-Free KNN Piezoelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1199, 7		2

80	Control of Lamellae Spacing During Freeze Casting of Ceramics Using Double-Side Cooling as a Novel Processing Route. <i>Journal of the American Ceramic Society</i> , 2009 , 92, S79-S84	3.8	112
79	Influence of Sr/Ti Stoichiometry on the Densification Behavior of Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 601-606	3.8	44
78	Lead Zirconate Titanate/Magnetoplumbite Composites: A First Step Toward Multiferroic Ceramics?. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2362-2367	3.8	3
77	Influence of crystal structure on crack propagation under cyclic electric loading in lead zirconate titanate. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 425-430	6	8
76	Development of a roadmap for advanced ceramics: 2010-2025. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1549-1560	6	98
75	Direct comparison between hot pressing and electric field-assisted sintering of submicron alumina. <i>Acta Materialia</i> , 2009 , 57, 5454-5465	8.4	132
74	Local variations in defect polarization and covalent bonding in ferroelectric Cu(2+)-doped PZT and KNN functional ceramics at the morphotropic phase boundary. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8698-705	3.6	57
73	Formation of magnetic grains in ferroelectric Pb[Zr _{0.6} Ti _{0.4}]O ₃ ceramics doped with Fe ³⁺ above the solubility limit. <i>Applied Physics Letters</i> , 2009 , 94, 142901	3.4	39
72	Defect structure and formation of defect complexes in Cu ²⁺ -modified metal oxides derived from a spin-Hamiltonian parameter analysis. <i>Molecular Physics</i> , 2009 , 107, 1981-1986	1.7	36
71	Characterization of (Fe ³⁺ Zr,Ti - VO ₂) defect dipoles in (La,Fe)-codoped PZT 52.5/47.5 piezoelectric ceramics by multifrequency electron paramagnetic resonance spectroscopy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 1061-8	3.2	34
70	Defect-Dipole Formation in Copper-Doped PbTiO ₃ Ferroelectrics. <i>Physical Review Letters</i> , 2008 , 100, 095504	7.4	108
69	Different R-Curves for Two- and Three-Dimensional Cracks. <i>International Journal of Fracture</i> , 2008 , 153, 153-159	2.3	12
68	Mode-II shielding-curve of Al ₂ O ₃ from measurement of cone crack angles. <i>Journal of Materials Science</i> , 2008 , 43, 2077-2081	4.3	
67	Method for the estimation of the total displacement of ferroelectric actuators under mixed thermal and electrical loading. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 328-336	3.9	12
66	DEFECT STRUCTURE IN "SOFT" (Gd,Fe)-CODOPED PZT 52.5/47.5 PIEZOELECTRIC CERAMICS. <i>Functional Materials Letters</i> , 2008 , 01, 7-11	1.2	15
65	Development of Dense Filler-Free Polymer-Derived SiOC Ceramics by Field-Assisted Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3803-3805	3.8	59
64	R-Curve Determination for the Initial Stage of Crack Extension in Si ₃ N ₄ . <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3638-3642	3.8	30
63	Determination of R-curves from lifetime tests with reloaded survivors. <i>International Journal of Materials Research</i> , 2008 , 99, 1107-1112	0.5	1

62	Local symmetry-reduction in tetragonal (La,Fe)-codoped Pb[Zr _{0.4} Ti _{0.6}]O ₃ piezoelectric ceramics. <i>Physica Scripta</i> , 2007 , T129, 12-16	2.6	26
61	Nanodomain structure of Pb[Zr _{1-x} Ti _x]O ₃ at its morphotropic phase boundary: Investigations from local to average structure. <i>Physical Review B</i> , 2007 , 75,	3.3	250
60	Composition dependence of the domain configuration and size in Pb(Zr _{1-x} Ti _x)O ₃ ceramics. <i>Journal of Applied Physics</i> , 2007 , 101, 074107	2.5	82
59	Nanodomains in morphotropic lead zirconate titanate ceramics: On the origin of the strong piezoelectric effect. <i>Journal of Applied Physics</i> , 2007 , 102, 024111	2.5	116
58	Estimation of strain from piezoelectric effect and domain switching in morphotropic PZT by combined analysis of macroscopic strain measurements and synchrotron X-ray data. <i>Acta Materialia</i> , 2007 , 55, 1849-1861	8.4	94
57	Temperature dependence of poling strain and strain under high electric fields in LaSr-doped morphotropic PZT and its relation to changes in structural characteristics. <i>Acta Materialia</i> , 2007 , 55, 5780-5791	8.4	89
56	Low temperature sintering and high piezoelectric properties of strontium doped PNZT/BNN ceramics processed via the columbite route. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3613-3617	6	7
55	Bipolar Fatigue Caused by Field Screening in Pb(Zr,Ti)O ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070922001254005-???	3.8	20
54	Permittivity and loss tangent of unpoled LaSr-doped PZT under compressive loading. <i>Journal of Materials Science</i> , 2007 , 42, 8753-8756	4.3	1
53	Characterization of ferroelectric domains in morphotropic potassium sodium niobate with scanning probe microscopy. <i>Applied Physics Letters</i> , 2007 , 90, 252905	3.4	61
52	Nonlinearity of strain and strain hysteresis in morphotropic LaSr-doped lead zirconate titanate under unipolar cycling with high electric fields. <i>Journal of Applied Physics</i> , 2007 , 101, 044101	2.5	55
51	In situ synchrotron diffraction investigation of morphotropic Pb[Zr _{1-x} Ti _x]O ₃ under an applied electric field. <i>Physical Review B</i> , 2007 , 76,	3.3	60
50	Effect of intergranular glass on phase relation of Nd-Bialon. <i>Scripta Materialia</i> , 2006 , 54, 1469-1473	5.6	3
49	Iron-oxygen vacancy defect association in polycrystalline iron-modified PbZrO ₃ antiferroelectrics: Multifrequency electron paramagnetic resonance and Newman superposition model analysis. <i>Physical Review B</i> , 2006 , 73,	3.3	45
48	Multifrequency electron paramagnetic resonance analysis of polycrystalline gadolinium-doped PbTiO ₃ charge compensation and site of incorporation. <i>Applied Physics Letters</i> , 2006 , 88, 122506	3.4	31
47	Measuring electrostatic potential profiles across amorphous intergranular films by electron diffraction. <i>Microscopy and Microanalysis</i> , 2006 , 12, 160-9	0.5	4
46	Experimental evidence of the impact of rare-earth elements on particle growth and mechanical behaviour of silicon nitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 422, 66-76	5.3	69
45	Grain Boundary Films in Rare-Earth-Glass-Based Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 788-792	3.8	122

44	Transient Growth Bands in Silicon Nitride Cooled in Rare-Earth-Based Glass. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1397-1404	3.8	18
43	Thermodynamic Analysis of Grain Aspect Ratio in Fibrous Microstructures of Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3250-3252	3.8	8
42	Correlation between Surface Texture and Chemical Composition in Undoped, Hard, and Soft Piezoelectric PZT Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 721-724	3.8	52
41	Influence of the Rare-Earth Element on the Mechanical Properties of REMg-Bearing Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2485-2490	3.8	70
40	High-field/high-frequency EPR of paramagnetic functional centers in Cu ²⁺ - and Fe ³⁺ -modified polycrystalline Pb[Zr(x)Ti(1-x)]O ₃ ferroelectrics. <i>Magnetic Resonance in Chemistry</i> , 2005 , 43 Spec no., S166-73	2.1	38
39	Electrical conductivity and stability of concentrated aqueous alumina suspensions. <i>Journal of Colloid and Interface Science</i> , 2005 , 286, 579-88	9.3	63
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