Michael J Hoffmann

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#	Paper	IF	Citations
187	High capacity vertical aligned carbon nanotube/sulfur composite cathodes for lithium-sulfur batteries. <i>Chemical Communications</i> , 2012 , 48, 4097-9	5.8	257
186	Nanodomain structure of Pb[Zr1\(\mathbb{Z}\)Tix]O3 at its morphotropic phase boundary: Investigations from local to average structure. <i>Physical Review B</i> , 2007 , 75,	3.3	250
185	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
184	Ferroelectric domains in methylammonium lead iodide perovskite thin-films. <i>Energy and Environmental Science</i> , 2017 , 10, 950-955	35.4	151
183	Direct comparison between hot pressing and electric field-assisted sintering of submicron alumina. <i>Acta Materialia</i> , 2009 , 57, 5454-5465	8.4	132
182	Lithium Diffusion Pathway in Li(1.3)Al(0.3)Ti(1.7)(PO4)3 (LATP) Superionic Conductor. <i>Inorganic Chemistry</i> , 2016 , 55, 2941-5	5.1	131
181	Sintering Model for Mixed-Oxide-Derived Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 1998 , 81, 3277-3284	3.8	130
180	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
179	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
178	Grain Growth Studies of Silicon Nitride Dispersed in an Oxynitride Glass. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 2778-2784	3.8	115
177	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
176	Defect-Dipole Formation in Copper-Doped PbTiO3 Ferroelectrics. <i>Physical Review Letters</i> , 2008 , 100, 095504	7.4	108
175	Development of a roadmap for advanced ceramics: 2010\(\textit{Z025}\). Journal of the European Ceramic Society, 2009 , 29, 1549-1560	6	98
174	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
173	Model experiments concerning abnormal grain growth in silicon nitride. <i>Journal of the European Ceramic Society</i> , 1996 , 16, 3-14	6	90
172	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, 57	8 <mark>8-4</mark> 79	1 ⁸⁹
171	Composition dependence of the domain configuration and size in Pb(Zr1NTix)O3 ceramics. <i>Journal of Applied Physics</i> , 2007 , 101, 074107	2.5	82

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170	Sintering of in-Situ Synthesized SicliB2 Composites with Improved Fracture Toughness. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 2479-2483	3.8	72
169	Influence of Alkaline and Niobium Excess on Sintering and Microstructure of Sodium-Potassium Niobate (K0.5 Na0.5)NbO3. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1270	3.8	71
168	Universal Polarization Switching Behavior of Disordered Ferroelectrics. <i>Advanced Functional Materials</i> , 2012 , 22, 2058-2066	15.6	70
167	Influence of the Rare-Earth Element on the Mechanical Properties of REMg-Bearing Silicon Nitride. Journal of the American Ceramic Society, 2005 , 88, 2485-2490	3.8	70
166	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
165	Electrical conductivity and stability of concentrated aqueous alumina suspensions. <i>Journal of Colloid and Interface Science</i> , 2005 , 286, 579-88	9.3	63
164	Characterization of ferroelectric domains in morphotropic potassium sodium niobate with scanning probe microscopy. <i>Applied Physics Letters</i> , 2007 , 90, 252905	3.4	61
163	Ferroelectric Properties of Perovskite Thin Films and Their Implications for Solar Energy Conversion. <i>Advanced Materials</i> , 2019 , 31, e1806661	24	61
162	In situ synchrotron diffraction investigation of morphotropic Pb[Zr1\(\mathbb{Z}\)Tix]O3 under an applied electric field. <i>Physical Review B</i> , 2007 , 76,	3.3	60
161	Three-dimensional organization of rare-earth atoms at grain boundaries in silicon nitride. <i>Applied Physics Letters</i> , 2005 , 87, 061911	3.4	60
160	Development of Dense Filler-Free Polymer-Derived SiOC Ceramics by Field-Assisted Sintering. Journal of the American Ceramic Society, 2008 , 91, 3803-3805	3.8	59
159	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
158	Interactions of defect complexes and domain walls in CuO-doped ferroelectric (K,Na)NbO3. <i>Applied Physics Letters</i> , 2013 , 102, 242908	3.4	55
157	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
156	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
155	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
154	Electric Field-Assisted Sintering in Comparison with the Hot Pressing of Yttria-Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 24-31	3.8	51
153	High strain lead-based perovskite ferroelectrics. <i>Current Opinion in Solid State and Materials Science</i> , 2004 , 8, 51-57	12	51

152	Slip Casting of SiC-Whisker-Reinforced Si3N4. Journal of the American Ceramic Society, 1989, 72, 765-76	69 3.8	50
151	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
150	Structure and rheological properties of the REBiMgDN (RE=Sc, Y, La, Nd, Sm, Gd, Yb and Lu) glasses. <i>Journal of Non-Crystalline Solids</i> , 2004 , 344, 8-16	3.9	48
149	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
148	Evolution of microstructure and its relation to ionic conductivity in Li1 + xAlxTi2 lk(PO4)3. <i>Solid State Ionics</i> , 2016 , 288, 235-239	3.3	46
147	Iron-oxygen vacancy defect association in polycrystalline iron-modified PbZrO3 antiferroelectrics: Multifrequency electron paramagnetic resonance and Newman superposition model analysis. <i>Physical Review B</i> , 2006 , 73,	3.3	45
146	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
145	Thermodynamic Calculations for the Formation of SiC-Whisker-Reinforced Si3N4Ceramics. <i>Advanced Ceramic Materials</i> , 1988 , 3, 557-562		43
144	Substitution of Y2O3 by a rare earth oxide mixture as sintering additive of Si3N4 ceramics. <i>Materials Letters</i> , 2000 , 45, 39-42	3.3	41
143	Short-Range and Medium-Range Order in Lithium Silicate Glasses, Part I: Diffraction Experiments and Results. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2833-2838	3.8	41
142	On the importance of ferroelectric domains for the performance of perovskite solar cells. <i>Nano Energy</i> , 2018 , 48, 20-26	17.1	39
141	Formation of magnetic grains in ferroelectric Pb[Zr0.6Ti0.4]O3 ceramics doped with Fe3+ above the solubility limit. <i>Applied Physics Letters</i> , 2009 , 94, 142901	3.4	39
140	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
139	High-field/high-frequency EPR of paramagnetic functional centers in Cu2+- and Fe3+-modified polycrystalline Pb[Zr(x)Ti(1-x)]O3 ferroelectrics. <i>Magnetic Resonance in Chemistry</i> , 2005 , 43 Spec no., S166-73	2.1	38
138	Volume Expansion Caused by Water Penetration into Silica Glass. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 78-87	3.8	37
137	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
136	Analysis of intrinsic lattice deformation in PZT-ceramics of different compositions. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 1349-1352	6	37
135	Defect structure and formation of defect complexes in Cu2+-modified metal oxides derived from a spin-Hamiltonian parameter analysis. <i>Molecular Physics</i> , 2009 , 107, 1981-1986	1.7	36

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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	Characterization of (Fe'Zr,Ti - VO). 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
132	Long-Term Behavior and Application Limits of Plasma-Sprayed Zirconia Thermal Barrier Coatings. Journal of the American Ceramic Society, 2004 , 84, 1301-1308	3.8	33
131	Solubility of Si3N4 in Liquid SiO2. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 25-32	3.8	33
130	Effect of the Amount of Additives and Post-Heat Treatment on the Microstructure and Mechanical Properties of Yttrium Bialon Ceramics. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2136-2142	3.8	32
129	Multifrequency electron paramagnetic resonance analysis of polycrystalline gadolinium-doped PbTiO3tharge compensation and site of incorporation. <i>Applied Physics Letters</i> , 2006 , 88, 122506	3.4	31
128	The influence of Mg substitution for Al on the properties of SiMeRE oxynitride glasses. <i>Journal of Non-Crystalline Solids</i> , 2004 , 333, 124-128	3.9	31
127	Contribution from Ferroelastic Domain Switching Detected Using X-ray Diffraction to R-Curves in Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2921-2929	3.8	31
126	Detailed X-ray Diffraction Analyses and Correlation of Microstructural and Electromechanical Properties of La-doped PZT Ceramics 1998 , 2, 75-84		30
125	R-Curve Determination for the Initial Stage of Crack Extension in Si3N4. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3638-3642	3.8	30
124	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
123	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
122	Water Penetration L '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	The effect of water penetration on crack growth in silica glass. <i>Engineering Fracture Mechanics</i> , 2013 , 100, 3-16	4.2	28
120	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
119	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
118	The mechanism of grain boundary motion in SrTiO3. Journal of Materials Science, 2016, 51, 467-475	4.3	27
117	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

116	Determination of functional center local environment in copper-modified Pb[Zr0.54Ti0.46]O3 ceramics. <i>Journal of Applied Physics</i> , 2004 , 95, 8092-8096	2.5	27
115	Experimental measurement of stress at a four-domain junction in lead zirconate titanate. <i>Journal of Applied Physics</i> , 2005 , 97, 094102	2.5	27
114	DEFECT STRUCTURE OF COPPER DOPED POTASSIUM NIOBATE CERAMICS. Functional Materials Letters, 2010 , 03, 19-24	1.2	26
113	Local symmetry-reduction in tetragonal (La,Fe)-codoped Pb[Zr0.4Ti0.6]O3piezoelectric ceramics. <i>Physica Scripta</i> , 2007 , T129, 12-16	2.6	26
112	Chemical and structural effects on the high-temperature mechanical behavior of (1☑)(Na1/2Bi1/2)TiO3-xBaTiO3 ceramics. <i>Journal of Applied Physics</i> , 2015 , 117, 134110	2.5	25
111	A comparison of power controlled flash sintering and conventional sintering of strontium titanate. <i>Scripta Materialia</i> , 2017 , 130, 187-190	5.6	24
110	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
109	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
108	CuO-doped NaNbO3 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
107	Preparation of Multiple-Cation alpha-SiAlON Ceramics Containing Lanthanum. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 229-232	3.8	23
106	On the ferroelectricity of CHNHPbI perovskites. <i>Nature Materials</i> , 2019 , 18, 1050	27	23
105	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
104	Probing the Microstructure of Methylammonium Lead Iodide Perovskite Solar Cells. <i>Energy Technology</i> , 2019 , 7, 1800989	3.5	22
103	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
102	Preparation of Esilicon Nitride Seeds for Self-Reinforced Silicon Nitride Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 1608-1610	3.8	21
101	Densification Behavior and Properties of Y2O3-Containing	3.8	21
100	Critical mechanical and electrical transition behavior of BaTiO3: The observation of mechanical double loop behavior. <i>Journal of Applied Physics</i> , 2012 , 112, 124101	2.5	20
99	R Curves from Compliance and Optical Crack-Length Measurements. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2814-2821	3.8	20

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98	Bipolar Fatigue Caused by Field Screening in Pb(Zr,Ti)O3 Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070922001254005-???	3.8	20
97	Ferroelectric Poling of Methylammonium Lead Iodide Thin Films. <i>Advanced Functional Materials</i> , 2020 , 30, 1908657	15.6	20
96	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
95	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
94	Anti-thermal grain growth in SrTiO3: Coupled reduction of the grain boundary energy and grain growth rate constant. <i>Acta Materialia</i> , 2018 , 149, 11-18	8.4	18
93	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
92	Sintering and grain growth in SrTiO3: impact of defects on kinetics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 346-353	1	18
91	Anti-thermal behavior of materials. <i>Scripta Materialia</i> , 2015 , 103, 1-5	5.6	17
90	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
89	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
88	Homogenization of the thermoelastic properties of silicon nitride. <i>Acta Materialia</i> , 2011 , 59, 6029-6038	8.4	17
87	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
86	Phase-field study of pore-grain boundary interaction. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 329-339	1	16
85	Impact of the Intergranular Film Properties on Microstructure and Mechanical Behavior of Silicon Nitride. <i>Key Engineering Materials</i> , 2004 , 264-268, 775-780	0.4	16
84	SiC-Ceramics with Tailored Porosity Gradients for Combustion Chambers. <i>Key Engineering Materials</i> , 1999 , 175-176, 149-162	0.4	16
83	Processing and characterization of elastic and thermal expansion behaviour of interpenetrating Al12Si/alumina composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 339-348	5.3	16
82	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
81	DEFECT STRUCTURE IN "SOFT" (Gd,Fe)-CODOPED PZT 52.5/47.5 PIEZOELECTRIC CERAMICS. Functional Materials Letters, 2008 , 01, 7-11	1.2	15

80	Short-Range and Medium-Range Order in Lithium Silicate Glasses, Part II: Simulation of the Structure by the Reverse Monte Carlo Method. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2839-7	2 8 846	15
79	Linking Grain Boundaries and Grain Growth in Ceramics. <i>Advanced Engineering Materials</i> , 2010 , 12, 1230-	-1,2;34	14
78	Internal load transfer in an interpenetrating metal/ceramic composite material studied using energy dispersive synchrotron X-ray diffraction. <i>Materials Science & Dispersive Science A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 247-252	5.3	13
77	Phase-Field Modeling of Diffusion Coupled Crack Propagation Processes. <i>Advanced Engineering Materials</i> , 2014 , 16, 142-146	3.5	13
76	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
75	Different R-Curves for Two- and Three-Dimensional Cracks. <i>International Journal of Fracture</i> , 2008 , 153, 153-159	2.3	12
74	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
73	Processing and Microstructural Evolution of Rare Earth Containing SiAlONs. <i>Key Engineering Materials</i> , 2003 , 237, 141-148	0.4	12
72	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
71	Interaction of Modified (K,Na)NbO3 Ceramics with Ag-Containing Electrodes. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3591-3595	3.8	11
70	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
69	Sol-Gel Processing and Electrochemical Conversion of Inverse Spinel-Type Li2NiF4. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A679-A686	3.9	10
68	Sinter-HIP of polymer-derived Al2O3BiC composites with high SiC contents. <i>Materials Letters</i> , 2011 , 65, 2462-2465	3.3	10
67	Characterization of grain boundary disconnections in SrTiO3 part I: the dislocation component of grain boundary disconnections. <i>Journal of Materials Science</i> , 2019 , 54, 3694-3709	4.3	10
66	A micromechanically motivated finite element approach to the fracture toughness of silicon nitride. Journal of the European Ceramic Society, 2013 , 33, 1729-1736	6	9
65	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
64	The equilibrium crystal shape of strontium titanate: Impact of donor doping. <i>Scripta Materialia</i> , 2017 , 127, 118-121	5.6	9
63	In situ neutron diffraction study of electric field induced structural transitions in lanthanum doped lead zirconate titanate. <i>Zeitschrift Fli Kristallographie</i> , 2011 , 226, 155-162		9

62	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, 2411-241	1 3 .8	9
61	Hard and Tough ⊞iAION Ceramics. <i>Materials Science Forum</i> , 2000 , 325-326, 219-224	0.4	9
60	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
59	Non-Arrhenius grain growth in strontium titanate: Quantification of bimodal grain growth. <i>Acta Materialia</i> , 2019 , 174, 105-115	8.4	8
58	Direct synthesis of trirutile-type LiMgFeF6 and its electrochemical characterization as positive electrode in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 274, 1200-1207	8.9	8
57	Grain size effects in donor doped lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2020 , 128, 214105	2.5	8
56	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
55	Influence of crystal structure on crack propagation under cyclic electric loading in leaddirconatelitanate. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 425-430	6	8
54	Influence of Grain Size on the Tensile Creep Behavior of Ytterbium-Containing Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 421-430	3.8	8
53	Phase Relationships in Neodymia and Ytterbia Containing SiAlONs. <i>Key Engineering Materials</i> , 2003 , 237, 43-48	0.4	8
52	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
51	Characterization of grain boundary disconnections in SrTiO3 Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , 2019 , 54, 3710-3725	4.3	8
50	Diffusion of water in silica: Influence of moderate stresses. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1180-1190	3.8	7
49	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
48	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
47	Low temperature sintering and high piezoelectric properties of strontium doped PNZT B NN ceramics processed via the columbite route. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3613-36	16	7
46	Stress-Enhanced Swelling of Silica: Effect on Strength. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2956-2963	3.8	7
45	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

44	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
43	Control of the Surface Morphology of Ceramic/Polymer Composite Inks for Inkjet Printing. Advanced Engineering Materials, 2018, 20, 1800318	3.5	6
42	Bimodal domain configuration and wedge formation in tetragonal Pb[Zr1\(\mathbb{Z}\)Tix]O3 ferroelectrics. <i>Computational Materials Science</i> , 2014 , 81, 123-132	3.2	6
41	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
40	Tape casted thin films of solid electrolyte Lithium-Lanthanum-Titanate. <i>Solid State Ionics</i> , 2018 , 328, 25	- 2 ;9;	6
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