

Jrgen Rdel

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#	Paper	IF	Citations
354	Perspective on the Development of Lead-free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1153-1177	3.8	2236
353	Transferring lead-free piezoelectric ceramics into application. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1659-1681	6	823
352	Giant electric-field-induced strains in lead-free ceramics for actuator applications – status and perspective. <i>Journal of Electroceramics</i> , 2012 , 29, 71-93	1.5	674
351	Giant strain in lead-free piezoceramics $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{BaTiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ system. <i>Applied Physics Letters</i> , 2007 , 91, 112906	3.4	660
350	On the phase identity and its thermal evolution of lead free $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ -6 mol% BaTiO_3 . <i>Journal of Applied Physics</i> , 2011 , 110, 074106	2.5	638
349	Origin of the large strain response in $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ -modified $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3\text{BaTiO}_3$ lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2009 , 105, 094102	2.5	493
348	BaTiO_3 -based piezoelectrics: Fundamentals, current status, and perspectives. <i>Applied Physics Reviews</i> , 2017 , 4, 041305	17.3	487
347	Temperature-Insensitive $(\text{K},\text{Na})\text{NbO}_3$ -Based Lead-Free Piezoactuator Ceramics. <i>Advanced Functional Materials</i> , 2013 , 23, 4079-4086	15.6	406
346	Evolving morphotropic phase boundary in lead-free $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3\text{BaTiO}_3$ piezoceramics. <i>Journal of Applied Physics</i> , 2011 , 109, 014110	2.5	361
345	Sintering and Electrical Properties of Lead-Free $\text{Na}_{0.5}\text{K}_{0.5}\text{NbO}_3$ Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2010-2015	3.8	340
344	High-Strain Lead-free Antiferroelectric Electrostrictors. <i>Advanced Materials</i> , 2009 , 21, 4716-4720	24	321
343	Electric-field-induced phase transformation at a lead-free morphotropic phase boundary: Case study in a 93% $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ 7% BaTiO_3 piezoelectric ceramic. <i>Applied Physics Letters</i> , 2009 , 95, 032904	3.4	311
342	Temperature-Dependent Properties of $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ $(\text{Bi}_{1/2}\text{K}_{1/2})\text{TiO}_3$ BaTiO_3 Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2241-2247	3.8	307
341	Lead-free piezoceramics with giant strain in the system $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{BaTiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$. I. Structure and room temperature properties. <i>Journal of Applied Physics</i> , 2008 , 103, 034107	2.5	253
340	Determination of depolarization temperature of $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ -based lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2011 , 110, 094108	2.5	230
339	In Situ Measurements of Bridged Crack Interfaces in the Scanning Electron Microscope. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3313-3318	3.8	206
338	Morphotropic phase boundary in $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ lead-free piezoceramics. <i>Applied Physics Letters</i> , 2008 , 92, 222902	3.4	204

337	Nanoscale Insight Into Lead-Free BNT-BT-xKNN. <i>Advanced Functional Materials</i> , 2012 , 22, 4208-4215	15.6	198
336	Semiconductor/relaxor 0-3 type composites without thermal depolarization in Bi _{1-x} Na _x TiO ₃ -based lead-free piezoceramics. <i>Nature Communications</i> , 2015 , 6, 6615	17.4	197
335	Preparation and enhanced electrical properties of grain-oriented (Bi _{1/2} Na _{1/2})TiO ₃ -based lead-free incipient piezoceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2501-2512	6	187
334	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
333	Lead-free piezoceramics with giant strain in the system Bi _{0.5} Na _{0.5} TiO ₃ BaTiO ₃ /(K _{0.5} Na _{0.5})NbO ₃ . II. Temperature dependent properties. <i>Journal of Applied Physics</i> , 2008 , 103, 034108	2.5	180
332	Cyclic Fatigue from Frictional Degradation at Bridging Grains in Alumina. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1340-1348	3.8	168
331	Temperature-Insensitive Large Strain of (Bi _{1/2} Na _{1/2})TiO ₃ /(Bi _{1/2} K _{1/2})TiO ₃ /(K _{0.5} Na _{0.5})NbO ₃ Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1392	3.8	163
330	In Situ Transmission Electron Microscopy of Electric Field-Triggered Reversible Domain Formation in Bi-Based Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2452-2455	3.8	163
329	Two-stage processes of electrically induced-ferroelectric to relaxor transition in 0.94(Bi _{1/2} Na _{1/2})TiO ₃ -0.06BaTiO ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 192903	3.4	162
328	Lead-free high-temperature dielectrics with wide operational range. <i>Journal of Applied Physics</i> , 2011 , 109, 034107	2.5	155
327	Constrained sintering: A delicate balance of scales. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1451-1466	6	154
326	Damage evolution in ferroelectric PZT induced by bipolar electric cycling. <i>Acta Materialia</i> , 2000 , 48, 3783-3794	3.794	154
325	Strength and fracture toughness of aluminum/alumina composites with interpenetrating networks. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 197, 19-30	5.3	150
324	Relationship between electromechanical properties and phase diagram in the Ba(Zr _{0.2} Ti _{0.8})O ₃ /(Ba _{0.7} Ca _{0.3})TiO ₃ lead-free piezoceramic. <i>Acta Materialia</i> , 2014 , 80, 48-55	8.4	149
323	Fatigue In Bulk Lead Zirconate Titanate Actuator Materials. <i>Advanced Engineering Materials</i> , 2005 , 7, 882-898	3.5	143
322	Temperature-dependent ferroelastic switching of soft lead zirconate titanate. <i>Acta Materialia</i> , 2009 , 57, 4614-4623	8.4	135
321	Relaxor/Ferroelectric Composites: A Solution in the Quest for Practically Viable Lead-Free Incipient Piezoceramics. <i>Advanced Functional Materials</i> , 2014 , 24, 356-362	15.6	133
320	Electric-field-induced strain mechanisms in lead-free 94%(Bi _{1/2} Na _{1/2})TiO ₃ 3%BaTiO ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 082901	3.4	130

319	Temperature- and Frequency-Dependent Properties of the 0.75Bi _{1/2} Na _{1/2} TiO ₃ 0.25SrTiO ₃ Lead-Free Incipient Piezoceramic. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1937-1943	3.8	127
318	High-temperature dielectrics in CaZrO ₃ -modified Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 4327-4334	6	127
317	Requirements for the transfer of lead-free piezoceramics into application. <i>Journal of Materiomics</i> , 2018 , 4, 13-26	6.7	121
316	Influence of electric fields on the depolarization temperature of Mn-doped (1-x)Bi _{1/2} Na _{1/2} TiO ₃ -xBaTiO ₃ . <i>Journal of Applied Physics</i> , 2012 , 111, 014105	2.5	121
315	Relaxor Characteristics of Morphotropic Phase Boundary (Bi _{1/2} Na _{1/2})TiO ₃ (Bi _{1/2} K _{1/2})TiO ₃ Modified with Bi(Zn _{1/2} Ti _{1/2})O ₃ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4283-4290	3.8	112
314	Electric-field-induced volume change and room temperature phase stability of (Bi _{1/2} Na _{1/2})TiO ₃ -x mol. % BaTiO ₃ piezoceramics. <i>Applied Physics Letters</i> , 2011 , 99, 042901	3.4	109
313	Impedance Spectroscopy of (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ Ceramics Modified with (K _{0.5} Na _{0.5})NbO ₃ . <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1523-1529	3.8	108
312	A High-Temperature-Capacitor Dielectric Based on K _{0.5} Na _{0.5} NbO ₃ -Modified Bi _{1/2} Na _{1/2} TiO ₃ Bi _{1/2} K _{1/2} TiO ₃ . <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3519-3524	3.8	107
311	Lead-free piezoceramics: Status and perspectives. <i>MRS Bulletin</i> , 2018 , 43, 576-580	3.2	106
310	Origin of the large piezoelectric activity in (1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ x(Ba _{0.7} Ca _{0.3})TiO ₃ ceramics. <i>Physical Review B</i> , 2015 , 91,	3.3	103
309	Large Strain in Relaxor/Ferroelectric Composite Lead-Free Piezoceramics. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500018	6.4	102
308	Anisotropy of Grain Growth in Alumina. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3292-3301	3.8	102
307	Temperature Stability of Lead-Free Niobate Piezoceramics with Engineered Morphotropic Phase Boundary. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2177-2182	3.8	99
306	Development of a roadmap for advanced ceramics: 2010-2025. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 1549-1560	6	98
305	Core-Shell Lead-Free Piezoelectric Ceramics: Current Status and Advanced Characterization of the Bi _{1/2} Na _{1/2} TiO ₃ Bi _{1/2} K _{1/2} TiO ₃ System. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3405-3422	3.8	97
304	Effect of tetragonal distortion on ferroelectric domain switching: A case study on La-doped BiFeO ₃ BbTiO ₃ ceramics. <i>Journal of Applied Physics</i> , 2010 , 108, 014103	2.5	97
303	Microstructural modifications of ferroelectric lead zirconate titanate ceramics due to bipolar electric fatigue. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 2133-2142	6	87
302	Constraint-induced crack initiation at electrode edges in piezoelectric ceramics. <i>Acta Materialia</i> , 2001 , 49, 2751-2759	8.4	83

301	Anisotropic constitutive laws for sintering bodies. <i>Acta Materialia</i> , 2006 , 54, 111-118	8.4	81
300	Evolution of defect size and strength of porous alumina during sintering. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2561-2568	6	81
299	Fatigue of Lead Zirconate Titanate Ceramics. I: Unipolar and DC Loading. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1081-1087	3.8	80
298	Effect of Grain Size on Mechanical Properties of Submicrometer 3Y-TZP: Fracture Strength and Hydrothermal Degradation. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2830-2836	3.8	80
297	Local structure, pseudosymmetry, and phase transitions in $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3$ ceramics. <i>Physical Review B</i> , 2013 , 87,	3.3	79
296	Effect of Poling Direction on R-Curve Behavior in Lead Zirconate Titanate. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 424-426	3.8	79
295	Mechanical properties of cBN/Al composite materials. <i>Ceramics International</i> , 2011 , 37, 1-8	5.1	78
294	Experimental determination of sintering stresses and sintering viscosities. <i>Acta Materialia</i> , 2003 , 51, 4563-4574	8.4	77
293	Electric-field-temperature phase diagram of the ferroelectric relaxor system $(1-x)\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ - $x\text{BaTiO}_3$ doped with manganese. <i>Journal of Applied Physics</i> , 2014 , 115, 194104	2.5	76
292	Temperature Dependence of the Piezoelectric Coefficient in BiMeO_3 - PbTiO_3 ($\text{Me}=\text{Fe, Sc, (Mg}_{1/2}\text{Ti}_{1/2})$) Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 711-715	3.8	76
291	Bipolar and Unipolar Fatigue of Ferroelectric BNT-Based Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 529-535	3.8	76
290	Effect of uniaxial stress on ferroelectric behavior of $(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3$ -based lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2009 , 106, 044107	2.5	76
289	Ceramic/metal interfacial crack growth: Toughening by controlled microcracks and interfacial geometries. <i>Acta Metallurgica</i> , 1988 , 36, 2083-2093		76
288	Stress-induced phase transition in lead-free relaxor ferroelectric composites. <i>Acta Materialia</i> , 2017 , 136, 271-280	8.4	75
287	High-temperature poling of ferroelectrics. <i>Journal of Applied Physics</i> , 2008 , 104, 024116	2.5	75
286	Effect of Ferroelectric Long-Range Order on the Unipolar and Bipolar Electric Fatigue in $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3$ -Based Lead-Free Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3927-3933	3.8	74
285	Stress-induced anisotropy of sintering alumina: Discrete element modelling and experiments. <i>Acta Materialia</i> , 2007 , 55, 5187-5199	8.4	74
284	Temperature dependence of piezoelectric properties of high-TC $\text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ - PbTiO_3 . <i>Journal of Applied Physics</i> , 2009 , 106, 034109	2.5	73

283	Bi _{1/2} Na _{1/2} TiO ₃ BaTiO ₃ based thick-film capacitors for high-temperature applications. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 37-43	6	72
282	Functionally graded materials by electrochemical processing and infiltration: application to tungsten/copper composites. <i>Journal of Materials Science</i> , 2000 , 35, 477-486	4.3	72
281	Criticality: Concept to Enhance the Piezoelectric and Electrocaloric Properties of Ferroelectrics. <i>Advanced Functional Materials</i> , 2016 , 26, 7326-7333	15.6	71
280	High-Temperature Healing of Lithographically Introduced Cracks in Sapphire. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 592-5601	3.8	70
279	Thermal expansion behavior and macrostrain of Al ₂ O ₃ /Al composites with interpenetrating networks. <i>Acta Materialia</i> , 1998 , 46, 2493-2499	8.4	69
278	Crack opening profiles of indentation cracks in normal and anomalous glasses. <i>Acta Materialia</i> , 2004 , 52, 293-297	8.4	69
277	Interaction between crack deflection and crack bridging. <i>Journal of the European Ceramic Society</i> , 1992 , 10, 143-150	6	69
276	Impedance Spectroscopy of (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ Based High-Temperature Dielectrics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2825-2831	3.8	68
275	Effect of Nb-donor and Fe-acceptor dopants in (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ (K _{0.5} Na _{0.5})NbO ₃ lead-free piezoceramics. <i>Journal of Applied Physics</i> , 2010 , 108, 014110	2.5	66
274	Enhanced bipolar fatigue resistance in CaZrO ₃ -modified (K,Na)NbO ₃ lead-free piezoceramics. <i>Applied Physics Letters</i> , 2014 , 104, 242912	3.4	64
273	Mechanical Properties of Monoclinic Zirconia. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1401-1408	3.8	63
272	Critical Role of Monoclinic Polarization Rotation in High-Performance Perovskite Piezoelectric Materials. <i>Physical Review Letters</i> , 2017 , 119, 017601	7.4	62
271	Evolution of Mechanical Properties of Porous Alumina during Free Sintering and Hot Pressing. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3080-3086	3.8	62
270	Correlation between Long and Short Crack R-curves in Alumina Using the Crack Opening Displacement and Fracture Mechanical Weight Function Approach. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1189-1196	3.8	62
269	Temperature-dependent volume fraction of polar nanoregions in lead-free (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ ceramics. <i>Physical Review B</i> , 2017 , 95,	3.3	61
268	Reconciling Local Structure Disorder and the Relaxor State in (Bi _{1/2} Na _{1/2})TiO ₃ -BaTiO ₃ . <i>Scientific Reports</i> , 2016 , 6, 31739	4.9	61
267	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
266	Anisotropic Microstructural Development During the Constrained Sintering of Dip-Coated Alumina Thin Films. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1394-1400	3.8	60

265	Reliability of alumina ceramics: Effect of grain size. <i>Journal of the European Ceramic Society</i> , 1995 , 15, 395-404	6	60
264	Coexistence of ergodicity and nonergodicity in LaFeO ₃ -modified Bi(1/2)(Na(0.78)K(0.22))(1/2)TiO ₃ relaxors. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 365901	1.8	59
263	Electric-field-induced antiferroelectric to ferroelectric phase transition in mechanically confined Pb _{0.99} Nb _{0.02} [(Zr _{0.57} Sn _{0.43}) _{0.94} Ti _{0.06}] _{0.98} O ₃ . <i>Physical Review B</i> , 2010 , 81,	3.3	59
262	Structural origins of relaxor behavior in a 0.96(Bi _{1/2} Na _{1/2})TiO ₃ 0.04BaTiO ₃ single crystal under electric field. <i>Applied Physics Letters</i> , 2011 , 98, 252904	3.4	58
261	CuO as a sintering additive for (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ (K _{0.5} Na _{0.5})NbO ₃ lead-free piezoceramics. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2107-2117	6	58
260	Thermal residual strains and stresses in Al ₂ O ₃ /Al composites with interpenetrating networks. <i>Acta Materialia</i> , 1999 , 47, 565-577	8.4	58
259	Lead-free electrostrictive bismuth perovskite ceramics with thermally stable field-induced strains. <i>Materials Letters</i> , 2011 , 65, 2607-2609	3.3	57
258	Unipolar fatigue of ferroelectric lead zirconate titanate. <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1409-1415	6	56
257	Ni ₃ Al/Al ₂ O ₃ composites with interpenetrating networks. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 843-848		56
256	Temperature and driving field dependence of fatigue processes in PZT bulk ceramics. <i>Acta Materialia</i> , 2011 , 59, 6083-6092	8.4	54
255	Electric-field-induced polarization and strain in 0.94(Bi _{1/2} Na _{1/2})TiO ₃ 0.06BaTiO ₃ under uniaxial stress. <i>Acta Materialia</i> , 2013 , 61, 1350-1358	8.4	53
254	Crack opening displacements of Vickers indentation cracks. <i>Engineering Fracture Mechanics</i> , 2005 , 72, 647-659	4.2	52
253	Fatigue-free unipolar strain behavior in CaZrO ₃ and MnO ₂ co-modified (K,Na)NbO ₃ -based lead-free piezoceramics. <i>Applied Physics Letters</i> , 2013 , 103, 192907	3.4	51
252	Residual Stress Distributions in Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3155-3160	3.8	51
251	Stabilization of the Fatigue-Resistant Phase by CuO Addition in (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2473-2478	3.8	49
250	High temperature stress-induced double loop-like phase transitions in Bi-based perovskites. <i>Journal of Applied Physics</i> , 2010 , 108, 014101	2.5	49
249	Stretched exponential relaxation in perovskite ferroelectrics after cyclic loading. <i>Journal of Applied Physics</i> , 2004 , 95, 1386-1390	2.5	49
248	Ca Segregation to Basal Surfaces in γ -Alumina. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2841-2844		49

247	Pore Drag and Pore-Boundary Separation in Alumina. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 3302-3312	3.8	49
246	Stress, temperature and electric field effects in the lead-free (Ba,Ca)(Ti,Zr)O ₃ piezoelectric system. <i>Acta Materialia</i> , 2014 , 78, 37-45	8.4	48
245	Nanoscale phase quantification in lead-free (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ relaxor ferroelectrics by means of Na ²³ NMR. <i>Physical Review B</i> , 2014 , 90,	3.3	48
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243	Aging in the relaxor and ferroelectric state of Fe-doped (1-x)(Bi _{1/2} Na _{1/2})TiO ₃ -xBaTiO ₃ piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2014 , 116, 104102	2.5	46
242	Can an electric field induce an antiferroelectric phase out of a ferroelectric phase?. <i>Physical Review Letters</i> , 2010 , 105, 255702	7.4	46
241	Fracture of Alumina with Controlled Pores. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2449-2457	3.8	46
240	Tailored Porosity Gradients via Colloidal Infiltration of Compression-Molded Sponges. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1661-1664	3.8	45
239	Cycling stability of lead-free BNT/BBT and BNT/BBT/BKNN multilayer actuators and bulk ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 653-661	6	44
238	Tailoring Strain Properties of (0.94x)Bi _{1/2} Na _{1/2} TiO ₃ -(0.06BaTiO ₃) _x (K _{0.5} Na _{0.5} NbO ₃) _{1-x} Ferroelectric/Relaxor Composites. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1465-1470	3.8	44
237	Influence of thickness on the constrained sintering of alumina films. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2623-2627	6	44
236	Cosintering Simulation and Experimentation: Case Study of Nanocrystalline Zirconia. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2757-2763	3.8	44
235	Electromechanical poling of piezoelectrics. <i>Applied Physics Letters</i> , 2006 , 88, 252907	3.4	43
234	Effect of initial grain size on sintering trajectories. <i>Acta Materialia</i> , 2000 , 48, 1239-1246	8.4	43
233	Critical Evaluation of Hot Forging Experiments: Case Study in Alumina. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1099-1105	3.8	42
232	Cyclic electric field response of morphotropic Bi _{1/2} Na _{1/2} TiO ₃ -BaTiO ₃ piezoceramics. <i>Applied Physics Letters</i> , 2015 , 106, 222904	3.4	41
231	Correlation of small- and large-signal properties of lead zirconate titanate multilayer actuators. <i>Acta Materialia</i> , 2009 , 57, 77-86	8.4	41
230	Fracture mechanics model for subthreshold indentation flaws. <i>Journal of Materials Science</i> , 1991 , 26, 2157-2168	4.3	41

229	Constrained Sintering of Alumina Thin Films: Comparison Between Experiment and Modeling. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1733-1737	3.8	40
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227	Crack tip switching zone in ferroelectric ferroelastic materials. <i>Acta Materialia</i> , 2004 , 52, 4919-4927	8.4	39
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