

# Qiming Zhang

## 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.

258  
papers

18,112  
citations

68  
h-index

130  
g-index

283  
ext. papers

20,095  
ext. citations

6.7  
avg, IF

6.64  
L-index

#	Paper	IF	Citations
258	Realizing excellent energy storage properties in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based lead-free relaxor ferroelectrics. <i>Journal of the European Ceramic Society</i> , <b>2022</b> , 42, 2221-2229	6	6
257	Advanced dielectric polymers for energy storage. <i>Energy Storage Materials</i> , <b>2022</b> , 44, 29-47	19.4	33
256	Relaxor ferroelectric polymer exhibits ultrahigh electromechanical coupling at low electric field.. <i>Science</i> , <b>2022</b> , 375, 1418-1422	33.3	12
255	High dielectric response in dilute nanocomposites via hierarchical tailored polymer nanostructures. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 162902	3.4	3
254	Maxwell relation, giant (negative) electrocaloric effect, and polarization hysteresis. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 122904	3.4	10
253	Effect of Composition on Polarization Hysteresis and Energy Storage Ability of P(VDF-TrFE-CFE) Relaxor Terpolymers. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
252	Equivalent circuit analysis of a shear-shear mode resonance LiNbO <sub>3</sub> /Metglas bilayer composites with giant magnetoelectric response. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 176, 109210	4.6	0
251	Comment on Giant pyroelectric energy harvesting and a negative electrocaloric effect in multilayered nanostructures by G. Vats, A. Kumar, N. Ortega, C. R. Bowen and R. S. Katiyar, <i>Energy Environ. Sci.</i> , 2016, 9, 1335. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 1612-1614	35.4	2
250	Improving electric thermal stability of polypropylene by chemically linking small amount of hindered phenol groups. <i>MRS Advances</i> , <b>2021</b> , 6, 1-6	0.7	1
249	High-temperature polymers with record-high breakdown strength enabled by rationally designed chain-packing behavior in blends. <i>Matter</i> , <b>2021</b> , 4, 2448-2459	12.7	25
248	Hydrogel Ionic Diodes toward Harvesting Ultralow-Frequency Mechanical Energy. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103056	24	13
247	Topological structure enhanced nanostructure of high temperature polymer exhibiting more than ten times enhancement of dipolar response. <i>Nano Energy</i> , <b>2021</b> , 88, 106225	17.1	6
246	Morphology-induced dielectric enhancement in polymer nanocomposites. <i>Nanoscale</i> , <b>2021</b> , 13, 10933-10942	17.2	14
245	High-entropy polymer produces a giant electrocaloric effect at low fields.. <i>Nature</i> , <b>2021</b> , 600, 664-669	50.4	17
244	Investigation into the Atomistic Scale Mechanisms Responsible for the Enhanced Dielectric Response in the Interfacial Region of Polymer Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11558-11563	3.8	7
243	Room Temperature Magnetoelectric Sensor Arrays For Application of Detecting Iron Profiles in Organs. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 311, 112064-112064	3.9	2
242	A highly scalable dielectric metamaterial with superior capacitor performance over a broad temperature. <i>Science Advances</i> , <b>2020</b> , 6, eaax6622	14.3	93

241	Composition Dependence of Microstructures and Ferroelectric Properties in Poly(vinylidene fluoride-ter-trifluoroethylene-ter-chlorodifluoroethylene) Terpolymers. <i>Macromolecules</i> , <b>2020</b> , 53, 3139-3147	5.5	3
240	Creating an Eco-Friendly Building Coating with Smart Subambient Radiative Cooling. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906751	24	68
239	Dielectric enhancement over a broad temperature by nanofiller at ultra-low volume content in poly(ether methyl ether urea). <i>Applied Physics Letters</i> , <b>2020</b> , 117, 072905	3.4	7
238	Electrocaloric Cooling Materials and Devices for Zero-Global-Warming-Potential, High-Efficiency Refrigeration. <i>Joule</i> , <b>2019</b> , 3, 1200-1225	27.8	122
237	Giant permittivity materials with low dielectric loss over a broad temperature range enabled by weakening intermolecular hydrogen bonds. <i>Nano Energy</i> , <b>2019</b> , 64, 103916	17.1	19
236	Relaxor Ferroelectric Capacitors Embrace Polymorphic Nanodomains. <i>Joule</i> , <b>2019</b> , 3, 2296-2298	27.8	4
235	A Novel Magnetolectric Biomagnetic Susceptometer on Iron Level Detection with Mice Tissue. <i>Medical Devices &amp; Sensors</i> , <b>2018</b> , 1, e10004	1.6	1
234	Enhancing the electrocaloric effect in a relaxor polymer by including minor normal ferroelectric phase. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 153903	3.4	17
233	Towards electrocaloric heat pump: A relaxor ferroelectric polymer exhibiting large electrocaloric response at low electric field. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 113902	3.4	22
232	Reducing conduction losses in high energy density polymer using nanocomposites. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 122905	3.4	27
231	An electrocaloric refrigerator with direct solid to solid regeneration. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 243503	3.4	42
230	Generating high dielectric constant blends from lower dielectric constant dipolar polymers using nanostructure engineering. <i>Nano Energy</i> , <b>2017</b> , 32, 73-79	17.1	59
229	The refrigerant is also the pump. <i>Science</i> , <b>2017</b> , 357, 1094-1095	33.3	19
228	Biocompatible and Flexible Hydrogel Diode-Based Mechanical Energy Harvesting. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700118	6.8	17
227	Enhancement of the dielectric response in polymer nanocomposites with low dielectric constant fillers. <i>Nanoscale</i> , <b>2017</b> , 9, 10992-10997	7.7	122
226	Sintering aids modified electrocaloric response in BaZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> bilayer films. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 8-13	5.7	8
225	Flexible Ionic Diodes for Low-Frequency Mechanical Energy Harvesting. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601983	21.8	33
224	Electrocaloric response in a relaxor ferroelectric polymer at temperatures far below the dielectric maximum. <i>Phase Transitions</i> , <b>2017</b> , 90, 99-103	1.3	7

223	Aromatic Polyurea Possessing High Electrical Energy Density and Low Loss. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 4721-4725	1.9	14
222	Electrocaloric response near room temperature in Zr- and Sn-doped BaTiO <sub>3</sub> systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	21
221	A Room Temperature Ultrasensitive Magnetoelectric Susceptometer for Quantitative Tissue Iron Detection. <i>Scientific Reports</i> , <b>2016</b> , 6, 29740	4.9	16
220	Stable dielectric response of low-loss aromatic polythiourea thin films on Pt/SiO <sub>2</sub> substrate. <i>Journal of Advanced Dielectrics</i> , <b>2016</b> , 06, 1650003	1.3	6
219	Self-biased magnetoelectric effect in (Pb, Zr)TiO <sub>3</sub> /metglas laminates by annealing method. <i>Science Bulletin</i> , <b>2016</b> , 61, 378-382	10.6	7
218	Graphene enabled percolative nanocomposites with large electrocaloric efficient under low electric fields over a broad temperature range. <i>Nano Energy</i> , <b>2016</b> , 22, 461-467	17.1	28
217	COMSOL Multiphysics Modeling of Architected Acoustic Transducers in Oil Drilling. <i>MRS Advances</i> , <b>2016</b> , 1, 1755-1760	0.7	4
216	An Epoxy Bonding Apparatus for Applications under Extreme Environment. <i>MRS Advances</i> , <b>2016</b> , 1, 1525-1530	1.5	1
215	Enhanced electrocaloric effect in composition gradient bilayer thick films. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 133501	3.4	17
214	Anomalous negative electrocaloric effect in a relaxor/normal ferroelectric polymer blend with controlled nano- and meso-dipolar couplings. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 142902	3.4	18
213	Large piezoelectric properties in KNN-based lead-free single crystals grown by a seed-free solid-state crystal growth method. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 182904	3.4	38
212	An investigation of a thermally steerable electroactive polymer/shape memory polymer hybrid actuator. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 062901	3.4	12
211	An Ultrasensitive Magnetoelectric Sensor System For the Quantitative Detection of Liver Iron. <i>Proceedings of IEEE Sensors</i> , <b>2016</b> , 2016,	0	1
210	Giant strain response in ionic nanoporous graphene actuator with hierarchical structures. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1389-1393	2.3	1
209	Optimizing nanostructure to achieve high dielectric response with low loss in strongly dipolar polymers. <i>Nano Energy</i> , <b>2015</b> , 16, 227-234	17.1	33
208	Polymer-Based Dielectrics with High Energy Storage Density. <i>Annual Review of Materials Research</i> , <b>2015</b> , 45, 433-458	12.8	400
207	Tailoring the dipole properties in dielectric polymers to realize high energy density with high breakdown strength and low dielectric loss. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 114104	2.5	27
206	Electrical field dependence of electrocaloric effect in relaxor ferroelectrics. <i>Ceramics International</i> , <b>2015</b> , 41, S15-S18	5.1	23

205	Enhancing the magnetoelectric response of Terfenol-D/polyvinylidene fluoride/Terfenol-D laminates by exploiting the shear mode effect. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 112905	3.4	26
204	Aromatic poly(arylene ether urea) with high dipole moment for high thermal stability and high energy density capacitors. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 202902	3.4	34
203	High performance supercapacitor under extremely low environmental temperature. <i>RSC Advances</i> , <b>2015</b> , 5, 71699-71703	3.7	24
202	Polymer nanocomposites with high energy storage densities. <i>MRS Bulletin</i> , <b>2015</b> , 40, 753-759	3.2	85
201	Ferroelectric polymers as multifunctional electroactive materials: recent advances, potential, and challenges. <i>MRS Communications</i> , <b>2015</b> , 5, 115-129	2.7	14
200	Large Displacement in Relaxor Ferroelectric Terpolymer Blend Derived Actuators Using Al Electrode for Braille Displays. <i>Scientific Reports</i> , <b>2015</b> , 5, 11361	4.9	15
199	Internal Biasing in Relaxor Ferroelectric Polymer to Enhance the Electrocaloric Effect. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5134-5139	15.6	46
198	Dielectric and electrocaloric responses of Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> bulk ceramics and thick films with sintering aids. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2015</b> , 22, 1501-1505	2.3	11
197	Introducing free volume in strongly dipolar polymers to achieve high dielectric constant <b>2015</b> ,		2
196	Ferroelectric polymer nanocomposites for room-temperature electrocaloric refrigeration. <i>Advanced Materials</i> , <b>2015</b> , 27, 1450-4	24	157
195	Giant Electrocaloric Response Over A Broad Temperature Range in Modified BaTiO <sub>3</sub> Ceramics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1300-1305	15.6	307
194	Electrocaloric Materials: Giant Electrocaloric Response Over A Broad Temperature Range in Modified BaTiO <sub>3</sub> Ceramics (Adv. Funct. Mater. 9/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1336-1336	15.6	5
193	Topological-Structure Modulated Polymer Nanocomposites Exhibiting Highly Enhanced Dielectric Strength and Energy Density. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3172-3178	15.6	304
192	A high performance hybrid asymmetric supercapacitor via nano-scale morphology control of graphene, conducting polymer, and carbon nanotube electrodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9964-9969	13	48
191	An electrocaloric refrigerator without external regenerator. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 162905	3.4	49
190	A fast and efficient pre-doping approach to high energy density lithium-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10029-10033	13	63
189	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. <i>Nano Energy</i> , <b>2014</b> , 9, 176-185	17.1	82
188	Tailoring Thickness of Conformal Conducting Polymer Decorated Aligned Carbon Nanotube Electrodes for Energy Storage. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1400076	4.6	25

187	Strongly Dipolar Polythiourea and Polyurea Dielectrics with High Electrical Breakdown, Low Loss, and High Electrical Energy Density. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 4548-4551	1.9	33
186	High electromechanical responses of ultra-high-density aligned nano-porous microwave exfoliated graphite oxide/polymer nano-composites ionic actuators. <i>International Journal of Smart and Nano Materials</i> , <b>2014</b> , 5, 114-122	3.6	4
185	Call for papers - Special Issue of the IEEE Transactions on Dielectrics and Electrical Insulation on Electrets and Related Phenomena. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2014</b> , 21, 927-927	2.3	
184	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. <i>MRS Bulletin</i> , <b>2014</b> , 39, 1099-1111	3.2	135
183	Giant electrocaloric effect in BaZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> thick film. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 152908	3.4	73
182	Meta-aromatic polyurea with high dipole moment and dipole density for energy storage capacitors. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 072903	3.4	44
181	Influencing dielectric properties of relaxor polymer system by blending vinylidene fluoride-trifluoroethylene-based terpolymer with a ferroelectric copolymer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 104101	2.5	7
180	Electrocaloric Polymers. <i>Engineering Materials</i> , <b>2014</b> , 107-124	0.4	3
179	Electrical and thermal properties of vinylidene fluoride-trifluoroethylene-based polymer system with coexisting ferroelectric and relaxor states. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 7920-7926	4.3	5
178	Enhanced Electrocaloric Effect in Poly(vinylidene fluoride-trifluoroethylene)-based Composites. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1490, 235-240		1
177	A polymer blend approach to tailor the ferroelectric responses in P(VDF-trFE) based copolymers. <i>Polymer</i> , <b>2013</b> , 54, 2373-2381	3.9	56
176	High-volumetric performance aligned nano-porous microwave exfoliated graphite oxide-based electrochemical capacitors. <i>Advanced Materials</i> , <b>2013</b> , 25, 4879-85	24	97
175	A nanocomposite approach to tailor electrocaloric effect in ferroelectric polymer. <i>Polymer</i> , <b>2013</b> , 54, 5299-5302	3.9	21
174	Pyroelectric and electrocaloric materials. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 23-37	7.1	177
173	High volumetric electrochemical performance of ultra-high density aligned carbon nanotube supercapacitors with controlled nanomorphology. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 608-613	6.7	34
172	Hybrid supercapacitor materials from poly(3,4-ethylenedioxythiophene) conformally coated aligned carbon nanotubes. <i>Electrochimica Acta</i> , <b>2013</b> , 112, 522-528	6.7	35
171	Novel polymer ferroelectric behavior via crystal isomorphism and the nanoconfinement effect. <i>Polymer</i> , <b>2013</b> , 54, 1709-1728	3.9	208
170	Simulation of chip-size electrocaloric refrigerator with high cooling-power density. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 112901	3.4	40

169	A chip scale electrocaloric effect based cooling device. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 122904	3.4	136
168	Conduction Mechanisms and Structure-Property Relationships in High Energy Density Aromatic Polythiourea Dielectric Films. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1051-1055	21.8	51
167	Aromatic polythiourea dielectrics with ultrahigh breakdown field strength, low dielectric loss, and high electric energy density. <i>Advanced Materials</i> , <b>2013</b> , 25, 1734-8	24	225
166	Magnetoelectric Flexural Gate Transistor With Nanotesla Sensitivity. <i>Journal of Microelectromechanical Systems</i> , <b>2013</b> , 22, 71-79	2.5	8
165	Large Electrocaloric Effect from Electrical Field Induced Orientational Order-Disorder Transition in Nematic Liquid Crystals Possessing Large Dielectric Anisotropy. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1543, 13-20		1
164	A high-K ferroelectric relaxor terpolymer as a gate dielectric for organic thin film transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 013301	3.4	39
163	Electrocaloric and electrostrictive effect of polar P(VDF/rFE/FE) terpolymers. <i>Journal of Advanced Dielectrics</i> , <b>2013</b> , 03, 1350015	1.3	2
162	Aligned nano-porous microwave exfoliated graphite oxide ionic actuators with high strain and elastic energy density. <i>Advanced Materials</i> , <b>2013</b> , 25, 6277-83	24	10
161	Direct observation of ion distributions near electrodes in ionic polymer actuators containing ionic liquids. <i>Scientific Reports</i> , <b>2013</b> , 3, 973	4.9	39
160	Large Electrocaloric Effect in a Dielectric Liquid Possessing a Large Dielectric Anisotropy Near the Isotropic-Nematic Transition. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2894-2898	15.6	30
159	Enhanced Electromechanical Response of Ionic Polymer Actuators by Improving Mechanical Coupling between Ions and Polymer Matrix. <i>Macromolecules</i> , <b>2012</b> , 45, 5128-5133	5.5	38
158	Influence of the Electrolyte Film Thickness on Charge Dynamics of Ionic Liquids in Ionic Electroactive Devices. <i>Macromolecules</i> , <b>2012</b> , 45, 2050-2056	5.5	16
157	Equivalent circuit modeling of ionomer and ionic polymer conductive network composite actuators containing ionic liquids. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 181, 70-76	3.9	29
156	Maximizing the number of coexisting phases near invariant critical points for giant electrocaloric and electromechanical responses in ferroelectrics. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 082904	3.4	67
155	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2012</b> , 19, 1158-1166	2.3	37
154	Compact cooling devices based on giant electrocaloric effect dielectrics <b>2012</b> ,		1
153	Ultra-sensitive magnetoelectric sensor with high saturation field <b>2012</b> ,		1
152	Tailoring electrically induced properties by stretching relaxor polymer films. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 083515	2.5	14

151	Enhanced electrocaloric effect in poly(vinylidene fluoride-trifluoroethylene)-based terpolymer/copolymer blends. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 222902	3.4	36
150	Electrocaloric effect in ferroelectric polymers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 559-566	2.6	37
149	Piezoelectric property of hot pressed electrospun poly( $\beta$ -benzyl-DL-glutamate) fibers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 107, 639-646	2.6	18
148	A highly aromatic and sulfonated ionomer for high elastic modulus ionic polymer membrane micro-actuators. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 055015	3.4	8
147	A High-Modulus Electroactive Polymer Acting as a Robust Ionomer for Ionic Micro-Actuators. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1403, 97		
146	Giant electrocaloric effect in ferroelectric poly(vinylidene fluoride-trifluoroethylene) copolymers near a first-order ferroelectric transition. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 132903	3.4	65
145	Electrocaloric Effect and Dipolar Entropy Change in Ferroelectric Polymers. <i>Ferroelectrics</i> , <b>2012</b> , 426, 38-44	0.6	6
144	LARGE ELECTROCALORIC EFFECT IN RELAXOR FERROELECTRICS. <i>Journal of Advanced Dielectrics</i> , <b>2012</b> , 02, 1230011	1.3	23
143	Core-free rolled actuators for Braille displays using P(VDF-TrFE-CFE). <i>Smart Materials and Structures</i> , <b>2012</b> , 21,	3.4	18
142	Novel Polar-fluoropolymer Blends with Tailored Nanostructures for High Energy Density and Low Loss Capacitor Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1403, 102		1
141	Influence of the critical point on the electrocaloric response of relaxor ferroelectrics. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 064118	2.5	158
140	Tunable temperature dependence of electrocaloric effect in ferroelectric relaxor poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) terpolymer. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 052907	3.4	107
139	Electrocaloric Effect in Ferroelectric P(VDF-TrFE) Copolymers. <i>Integrated Ferroelectrics</i> , <b>2011</b> , 125, 176-185		21
138	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 463-470	2.3	17
137	Holographic imaging of electrical breakdown in air. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2011</b> , 18, 819-821	2.3	
136	Multiferroic Polymer Composites with Greatly Enhanced Magnetoelectric Effect under a Low Magnetic Bias. <i>Advanced Materials</i> , <b>2011</b> , 23, n/a-n/a	24	34
135	Magnetoelectric Sensors With Directly Integrated Charge Sensitive Readout Circuit Improved Field Sensitivity and Signal-to-Noise Ratio. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 2260-2265	4	10
134	Giant Electrocaloric Effect in High-Energy Electron Irradiated P(VDF-TrFE) Copolymers. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1310, 1		2



133	Charge Dynamics and Bending Actuation in Aquivion Membrane Swelled with Ionic Liquids. <i>Polymer</i> , <b>2011</b> , 52, 540-546	3.9	46
132	PEN/Si3N4 bilayer film for dc bus capacitors in power converters in hybrid electric vehicles. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 061401	1.3	10
131	Electrocaloric effect in relaxor ferroelectrics. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 074113	2.5	110
130	Enhanced electrocaloric effect in ferroelectric poly(vinylidene-fluoride/trifluoroethylene) 55/45 mol % copolymer at ferroelectric-paraelectric transition. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 122906	3.4	102
129	Polar-fluoropolymer blends with tailored nanostructures for high energy density low loss capacitor applications. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 132901	3.4	52
128	Upper bounds on the electrocaloric effect in polar solids. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 021909	3.4	89
127	Ion Transport and Storage in Ionic Polymer Bending Actuators. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1312, 1		
126	Ionic Electroactive Polymer Actuators with Aligned Carbon Nanotube/Nafion Nanocomposite Electrodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1304, 1		
125	Polar-fluoropolymer Blends for High Energy Density Low Loss Capacitor Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1312, 1		
124	Ion distribution in ionic electroactive polymer actuators <b>2011</b> ,		1
123	Thickness dependence of curvature, strain, and response time in ionic electroactive polymer actuators fabricated via layer-by-layer assembly. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 104301	2.5	41
122	Ion transport and storage of ionic liquids in ionic polymer conductor network composites. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223503	3.4	59
121	Thermally mediated multiferroic composites for the magnetoelectric materials. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 102902	3.4	15
120	Direct integration of magnetoelectric sensors with microelectronics Improved field sensitivity, signal-to-noise ratio and frequency response <b>2010</b> ,		1
119	Flicker-Noise Improvement in 100-nm $\text{Si}_{0.50}\text{Ge}_{0.50}$ Strained Quantum-Well Transistors Using Ultrathin Si Cap Layer. <i>IEEE Electron Device Letters</i> , <b>2010</b> , 31, 47-49	4.4	7
118	Electrocaloric effect in the relaxor ferroelectric polymer composition $\text{P}(\text{VDF-rFE})_{0.90}\text{B}(\text{VDF-rTFE})_{0.10}$ . <i>Phase Transitions</i> , <b>2010</b> , 83, 819-823	1.3	18
117	Low-frequency voltage mode sensing of magnetoelectric sensor in package. <i>Electronics Letters</i> , <b>2010</b> , 46, 1132	1.1	14
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