

# Helen Lai Wa Chan

## List of Publications by Citations

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304  
papers

7,486  
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45  
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70  
g-index

336  
ext. papers

8,048  
ext. citations

3.4  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
304	Diffuse phase transition and dielectric tunability of Ba(Zr <sub>0.1</sub> Ti <sub>0.9</sub> )O <sub>3</sub> relaxor ferroelectric ceramics. <i>Acta Materialia</i> , <b>2004</b> , 52, 5177-5183	8.4	380
303	Simple model for piezoelectric ceramic/polymer 1-3 composites used in ultrasonic transducer applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>1989</b> , 36, 434-41	3.2	309
302	Effects of grain size on the dielectric properties and tunabilities of sol-gel derived Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> ceramics. <i>Solid State Communications</i> , <b>2004</b> , 131, 163-168	1.6	217
301	Water dispersible ultra-small multifunctional KGdF <sub>4</sub> :Tm <sup>3+</sup> , Yb <sup>3+</sup> nanoparticles with near-infrared to near-infrared upconversion. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 16589		156
300	Raman scattering spectra and ferroelectric properties of Bi <sub>1-x</sub> Nd <sub>x</sub> FeO <sub>3</sub> (x=0.2) multiferroic ceramics. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 064101	2.5	137
299	Structural transformation and ferroelectric-paraelectric phase transition in Bi <sub>1-x</sub> LaxFeO <sub>3</sub> (x=0.25) multiferroic ceramics. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 1196-1200	3	132
298	Reduced ferroelectric coercivity in multiferroic Bi <sub>0.825</sub> Nd <sub>0.175</sub> FeO <sub>3</sub> thin film. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 024106	2.5	119
297	Evaluation of the material parameters of piezoelectric materials by various methods. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>1997</b> , 44, 733-742	3.2	116
296	Converse magnetoelectric effect in laminated composites of PMN/PT single crystal and Terfenol-D alloy. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 242902	3.4	113
295	Preparation and properties of sol-gel-derived Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> lead-free ferroelectric thin film. <i>Thin Solid Films</i> , <b>2007</b> , 515, 3563-3566	2.2	102
294	Towards pure near-infrared to near-infrared upconversion of multifunctional GdF(3):Yb(3+),Tm(3+) nanoparticles. <i>Optics Express</i> , <b>2010</b> , 18, 6123-30	3.3	100
293	Single crystal PMN-0.33PT/epoxy 1-3 composites for ultrasonic transducer applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2003</b> , 50, 1177-83	3.2	99
292	Piezoelectric and ferroelectric properties of K <sub>x</sub> Na <sub>1-x</sub> NbO <sub>3</sub> lead-free ceramics with MnO <sub>2</sub> and CuO doping. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 461, 273-278	5.7	96
291	Enhanced magnetoelectric effect in longitudinal-transverse mode Terfenol-D/Bb(Mg <sub>1-x</sub> Nb <sub>2x</sub> )O <sub>3</sub> /BbTiO <sub>3</sub> laminate composites with optimal crystal cut. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 124511	2.5	88
290	Structure and electrical properties of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> BaTiO <sub>3</sub> Bi <sub>0.5</sub> Li <sub>0.5</sub> TiO <sub>3</sub> lead-free piezoelectric ceramics. <i>Solid State Ionics</i> , <b>2008</b> , 178, 1930-1930	3.3	83
289	The synthesis of lead-free ferroelectric Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> Bi <sub>0.5</sub> K <sub>0.5</sub> TiO <sub>3</sub> thin films by sol-gel method. <i>Materials Letters</i> , <b>2007</b> , 61, 2117-2120	3.3	76
288	Hydrothermal synthesis of oriented ZnO nanobelts and their temperature dependent photoluminescence. <i>Chemical Physics Letters</i> , <b>2004</b> , 393, 17-21	2.5	75

287	Ultrasonic hydrophone based on distributed Bragg reflector fiber laser. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 169-171	2.2	72
286	Relaxor behavior of (Ba,Sr)(Zr,Ti)O <sub>3</sub> ferroelectric ceramics. <i>Solid State Communications</i> , <b>2005</b> , 136, 89-93	1.6	72
285	Multiferroic properties of Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> /Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> ceramic composites. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 104109	2.5	67
284	Phase transition and electrical properties of (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>1-x</sub> Tax)O <sub>3</sub> lead-free piezoelectric ceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 167-171	2.6	65
283	Electromechanical properties and dielectric behavior of (Bi <sub>1/2</sub> Na <sub>1/2</sub> )(1-x)BixTiO <sub>3</sub> lead-free piezoelectric ceramics. <i>Solid State Communications</i> , <b>2004</b> , 129, 319-323	1.6	65
282	Lead-free piezoelectric single crystal based 1-3 composites for ultrasonic transducer applications. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 182, 95-100	3.9	62
281	Dielectric properties of Mn-doped (Na <sub>0.8</sub> K <sub>0.2</sub> ) <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics. <i>Materials Letters</i> , <b>2006</b> , 60, 1786-1790	3.9	61
280	Energy harvesting with piezoelectric drum transducer. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 113506	3.4	59
279	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2000</b> , 7, 517-522	2.3	59
278	Piezoelectric and pyroelectric properties of PZT/P(VDF-TrFE) composites with constituent phases poled in parallel or antiparallel directions. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2000</b> , 47, 1308-15	3.2	56
277	Investigation on optical transmission spectra of (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> /PbTiO <sub>3</sub> single crystals. <i>Solid State Communications</i> , <b>2004</b> , 129, 401-405	1.6	55
276	Piezoelectric and pyroelectric properties of 65PMN-35PT/P(VDF-TrFE) 0/3 composites. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 1107-1111	8.6	55
275	Effects of MnO <sub>2</sub> on the microstructure and electrical properties of 0.94(K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> /0.06Ba(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> lead-free ceramics. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 109, 455-458	4.4	54
274	(Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> lead-free ceramics with simultaneous addition of CeO <sub>2</sub> and La <sub>2</sub> O <sub>3</sub> . <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 333-336	2.6	54
273	Pyroelectric and piezoelectric properties of lead titanate/polyvinylidene fluoride-trifluoroethylene 0-3 composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>1998</b> , 5, 505-512	2.3	54
272	Effect of excess Bi <sub>2</sub> O <sub>3</sub> on the electrical properties and microstructure of (Bi <sub>1/2</sub> Na <sub>1/2</sub> )TiO <sub>3</sub> ceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 1071-1075	2.6	53
271	Ferroelectric and piezoelectric properties of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> /Bi <sub>0.5</sub> Li <sub>0.5</sub> TiO <sub>3</sub> lead-free ceramics. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 481, 310-315	5.7	52
270	Piezoelectric cement-based 1-3 composites. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 1451-1454	2.6	52

269	Ferroelectric and dielectric properties of sol-gel derived Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> thin films. <i>Thin Solid Films</i> , <b>2003</b> , 424, 70-74	2.2	51
268	Preparation and characterization of hafnium doped barium titanate ceramics. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 431, 197-202	5.7	50
267	PZT ceramic/ceramic 0/1 nanocomposite films for ultrasonic transducer applications. <i>Thin Solid Films</i> , <b>2000</b> , 375, 95-99	2.2	49
266	First-principles study on the electronic and optical properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> lead-free piezoelectric crystal. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 043513	2.5	48
265	Colossal dielectric response in barium iron niobate ceramics obtained by different precursors. <i>Ceramics International</i> , <b>2008</b> , 34, 1059-1062	5.1	48
264	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO <sub>2</sub> /Au/MnO <sub>2</sub> nanospikes arrays. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10199-10204	13	47
263	Novel gas sensing materials based on CuS hollow spheres. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 118, 423-426	5.3	47
262	Converse magnetoelectric effects in piezoelectric/piezomagnetic layered composites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1440-1444	8.6	47
261	High magnetoelectric effect in laminated composites of giant magnetostrictive alloy and lead-free piezoelectric ceramic. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 104103	2.5	47
260	Giant sharp converse magnetoelectric effect from the combination of a piezoelectric transformer with a piezoelectric/magnetostrictive laminated composite. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 113503	3.4	45
259	Piezoelectric coefficient measurement of piezoelectric thin films: an overview. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 75, 12-18	4.4	45
258	Dynamic magnetomechanical properties of Terfenol-D/epoxy pseudo 1-3 composites. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10M308	2.5	45
257	Dielectric characteristics and polarization response of lead-free ferroelectric (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> /P(VDF-TrFE) 0/1 composites. <i>Solid State Communications</i> , <b>2004</b> , 130, 695-699 <sup>1.6</sup>	1.6	44
256	Structural and electrical properties of BaTi <sub>4</sub> O <sub>9</sub> microwave ceramics incorporated with glass phase. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 99, 491-494	3.1	44
255	Ultrasonic wire-bond quality monitoring using piezoelectric sensor. <i>Sensors and Actuators A: Physical</i> , <b>1998</b> , 65, 69-75	3.9	42
254	K <sub>x</sub> Na <sub>1-x</sub> NbO <sub>3</sub> powder synthesized by molten-salt process. <i>Materials Letters</i> , <b>2007</b> , 61, 409-411	3.3	42
253	Characterisation of proton irradiated Ba <sub>0.65</sub> Sr <sub>0.35</sub> TiO <sub>3</sub> /P(VDF-TrFE) ceramic/polymer composites. <i>Composites Science and Technology</i> , <b>2002</b> , 62, 2161-2167	8.6	42
252	TiO <sub>2</sub> -nonstoichiometry dependence on piezoelectric properties and depolarization temperature of (Bi <sub>0.5</sub> Na <sub>0.5</sub> ) <sub>0.94</sub> Ba <sub>0.06</sub> TiO <sub>3</sub> lead-free ceramics. <i>Solid State Communications</i> , <b>2005</b> , 134, 659-663	1.6	42

251	Lead-free piezoceramic cymbal actuator. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 125, 393-397	3.9	39
250	Compositionally graded $Ba_{x}Sr_{1-x}TiO_3$ thin films for tunable microwave applications. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 79, 157-160	4.4	39
249	Fabrication and performance of endoscopic ultrasound radial arrays based on PMN-PT single crystal/epoxy 1-3 composite. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2011</b> , 58, 477-84	3.2	38
248	Hot-pressed $K_{0.48}Na_{0.52}Nb_{1-x}Bi_xO_3$ ( $x=0.05\text{--}0.15$ ) lead-free ceramics for electro-optic applications. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 131, 320-324	4.4	38
247	A magnetorheological damper capable of force and displacement sensing. <i>Sensors and Actuators A: Physical</i> , <b>2010</b> , 158, 51-59	3.9	37
246	Diffusion phase transition and dielectric characteristics of $Bi_{0.5}Na_{0.5}TiO_3Ba(Hf,Ti)O_3$ lead-free ceramics. <i>Solid State Communications</i> , <b>2007</b> , 142, 10-14	1.6	37
245	Structural, dielectric and optical properties of $Ba(Ti, Zr)O_3$ thin films prepared by chemical solution deposition. <i>Thin Solid Films</i> , <b>2004</b> , 460, 227-231	2.2	36
244	Microstructure, dielectric and piezoelectric properties of $(K_{0.5}Na_{0.5})NbO_3-Ba(Ti_{0.95}Zr_{0.05})O_3$ lead-free ceramics with CuO sintering aid. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 359-363	2.6	35
243	Fine-grained multiferroic $BaTiO_3/(Ni_{0.5}Zn_{0.5})Fe_2O_4$ composite ceramics synthesized by novel powder-in-sol precursor hybrid processing route. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 1339-1346	5.1	33
242	P(VDF-TrFE) copolymer acoustic emission sensors. <i>Sensors and Actuators A: Physical</i> , <b>2000</b> , 80, 237-241	3.9	33
241	Electromechanical and ferroelectric properties of $(Bi_{1/2}Na_{1/2})TiO_3-(Bi_{1/2}K_{1/2})TiO_3-(Bi_{1/2}Li_{1/2})TiO_3-BaTiO_3$ lead-free piezoelectric ceramics for accelerometer application. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 775-781	2.6	32
240	Composition control and electrical properties of PMN-PT thin films around the morphotropic boundary. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 551-556	2.6	32
239	Optical properties of $Ba_{0.5}Sr_{0.5}TiO_3$ thin films grown on MgO substrates by pulsed laser deposition. <i>Ceramics International</i> , <b>2004</b> , 30, 1745-1748	5.1	32
238	Improved performance of asymmetric fiber-based micro-supercapacitors using carbon nanoparticles for flexible energy storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15633-15641	13	31
237	Characterization of barium titanate ceramic/ceramic nanocomposite films prepared by a sol-gel process. <i>Scripta Materialia</i> , <b>1999</b> , 11, 837-844		31
236	High-frequency ultrasonic transducer based on lead-free BSZT piezoceramics. <i>Ultrasonics</i> , <b>2011</b> , 51, 811-815	4.5	30
235	Magnetoelectric effect from mechanically mediated torsional magnetic force effect in NdFeB magnets and shear piezoelectric effect in $0.7Pb(Mg_{1-x}Nb_x)O_3\cdot 0.3PbTiO_3$ single crystal. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 123510	3.4	30
234	Growth and optical properties of $0.62Pb(Mg_{1/3}Nb_{2/3})O_3\cdot 0.38PbTiO_3$ single crystals by a modified Bridgman technique. <i>Journal of Crystal Growth</i> , <b>2004</b> , 263, 251-255	1.6	30

233	Dielectric properties of 65PMN5PT/P(VDF/rFE) 03 composites. <i>Microelectronic Engineering</i> , <b>2003</b> , 66, 792-797	2.5	30
232	Electrical, magnetic, and magnetoelectric characterization of fine-grained Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> (Ni <sub>0.5</sub> Zn <sub>0.5</sub> )Fe <sub>2</sub> O <sub>4</sub> composite ceramics. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 6311-6316	5.7	29
231	Dynamics of an ultrasonic transducer used for wire bonding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>1998</b> , 45, 1453-60	3.2	29
230	Bismuth sodium titanate based lead-free ultrasonic transducer for microelectronics wirebonding applications. <i>Ceramics International</i> , <b>2008</b> , 34, 773-777	5.1	29
229	Microstructures and dielectric properties of compositionally graded (Ba <sub>1-x</sub> Sr <sub>x</sub> ) TiO <sub>3</sub> thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 225-229	2.6	28
228	Electro-optic characterization of tetragonal (1-x)Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -xPbTiO <sub>3</sub> single crystals by a modified Scharmont setup. <i>Solid State Communications</i> , <b>2005</b> , 134, 547-551	1.6	28
227	Dielectric properties and high tunability of (100)-oriented Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> thin films prepared by pulsed laser deposition. <i>Scripta Materialia</i> , <b>2006</b> , 54, 197-200	5.6	27
226	Relaxor behaviors and tunability in BaZr <sub>0.35</sub> Ti <sub>0.65</sub> O <sub>3</sub> ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 438-440, 198-201	5.3	27
225	Piezoelectric coefficient of GaN measured by laser interferometry. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 254, 123-127	3.9	27
224	Lead-free KNLNT piezoelectric ceramics for high-frequency ultrasonic transducer application. <i>Ultrasonics</i> , <b>2009</b> , 49, 395-8	3.5	26
223	Piezocomposite ultrasonic transducer for high-frequency wire-bonding of microelectronics devices. <i>Sensors and Actuators A: Physical</i> , <b>2007</b> , 133, 195-199	3.9	26
222	Study on ceramic/polymer composite fabricated by laser cutting. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 75, 147-150	4.4	26
221	Preparation and characterisation of compositionally graded Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 75, 597-600	2.6	26
220	Preparation and properties of (Ba <sub>0.6</sub> Sr <sub>0.4</sub> )Bi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> ceramic. <i>Journal of the European Ceramic Society</i> , <b>1999</b> , 19, 985-988	6	26
219	Suppressing the Coffee-Ring Effect in Semitransparent MnO <sub>2</sub> Film for a High-Performance Solar-Powered Energy Storage Window. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9088-96	9.5	25
218	Nanocrystalline powder and fibres of lead zirconate titanate prepared by the sol-gel process. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 63, 281-285	5.3	25
217	High frequency 1-3 composite transducer fabricated using sol-gel derived lead-free BNBT fibers. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 114, 1-6	3.9	25
216	Broad-band and high-temperature ultrasonic transducer fabricated using a Pb(In <sub>1/3</sub> Nb <sub>1/3</sub> )-Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )-PbTiO <sub>3</sub> single crystal-epoxy 1-3 composite. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 055110	1.7	24

215	Ferroelectric lead magnesium niobate/lead titanate single crystals for ultrasonic hydrophone applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 111, 25-30	3.1	24
214	Synthesis and properties of ferroelectric SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> powder and films prepared by a sol-gel process. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 254, 106-111	3.9	24
213	Giant resonance frequency tunable magnetoelectric effect in a device of Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> drum transducer, NdFeB magnet, and Fe-core solenoid. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 203502	3.4	23
212	Structural and electric properties of barium strontium titanate based ceramic composite as a humidity sensor. <i>Solid State Ionics</i> , <b>2008</b> , 179, 1632-1635	3.3	23
211	Triple-like hysteresis loop and microdomain/macrodomain transformation in the relaxor-based 0.76Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.24PbTiO <sub>3</sub> single crystal. <i>Materials Research Bulletin</i> , <b>2004</b> , 39, 223-230	5.1	23
210	Nanocomposite ultrasonic hydrophones. <i>Sensors and Actuators A: Physical</i> , <b>1999</b> , 75, 252-256	3.9	23
209	Thermal hysteresis in the permittivity and polarization of lead zirconate titanate/vinylidene fluoride-trifluoroethylene 0-3 composites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>1996</b> , 3, 800-805	2.3	23
208	. <i>Journal of Lightwave Technology</i> , <b>1990</b> , 8, 1221-1227	4	23
207	A strong correlation of crystal structure and Curie point of barium titanate ceramics with Ba/Ti ratio of precursor composition. <i>Physica B: Condensed Matter</i> , <b>2008</b> , 403, 660-663	2.8	22
206	Piezoelectric composite hydrophone array. <i>Sensors and Actuators A: Physical</i> , <b>2002</b> , 96, 14-20	3.9	22
205	Dielectric permittivity of PCLT/PVDF-TRFE nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2000</b> , 7, 204-207	2.3	22
204	Large magnetoelectric effect from mechanically mediated magnetic field-induced strain effect in NiMnGa single crystal and piezoelectric effect in PVDF polymer. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 490, L5-L8	5.7	21
203	Lead-free alkaline niobate-based transducer for ultrasonic wirebonding applications. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 150, 267-271	3.9	21
202	Piezoelectric and dielectric characteristics of lead-free BNKLBT ceramic thick film and multilayered piezoelectric actuators. <i>Ceramics International</i> , <b>2010</b> , 36, 2345-2350	5.1	21
201	PMNBT single-crystal transducer for non-destructive evaluation. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 132, 434-440	3.9	21
200	Orientation controllable deposition of LiNbO <sub>3</sub> films on sapphire and diamond substrates for surface acoustic wave device application. <i>Journal of Crystal Growth</i> , <b>2004</b> , 268, 144-148	1.6	21
199	Finite element analysis on piezoelectric ring transformer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2004</b> , 51, 1247-54	3.2	21
198	Dielectric properties of barium titanate ceramics modified by SiO <sub>2</sub> and by BaO·Bi <sub>2</sub> O <sub>3</sub> . <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 2374-2376	2.8	20

197	Influence of oxygen partial pressure on the structural and dielectric properties of Ba(Zr <sub>0.3</sub> Ti <sub>0.7</sub> )O <sub>3</sub> thin films grown on (LaAlO <sub>3</sub> ) <sub>0.3</sub> (Sr <sub>2</sub> AlTaO <sub>6</sub> ) <sub>0.35</sub> (001) using pulsed laser deposition. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2092-2098	2.2	20
196	Study of compressive type accelerometer based on lead-free BNKBT piezoceramics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 82, 715-718	2.6	20
195	Composition dependence of structural and optical properties of Ba(Zrx,Ti1-x)O <sub>3</sub> thin films grown on MgO substrates by pulsed laser deposition. <i>Thin Solid Films</i> , <b>2011</b> , 519, 6313-6318	2.2	19
194	Giant magnetoelectric effect in mechanically clamped heterostructures of magnetostrictive alloy and piezoelectric crystal-alloy cymbal. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 213504	3.4	19
193	Lead-free transducer for non-destructive evaluation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 88, 209-215	2.6	19
192	Electrical properties of (Pb <sub>0.76</sub> Ca <sub>0.24</sub> )TiO <sub>3</sub> thin films on LaNiO <sub>3</sub> coated Si and fused quartz substrates prepared by a sol-gel process. <i>Applied Surface Science</i> , <b>2003</b> , 207, 63-68	6.7	19
191	Piezoelectrically actuated ejector using PMNBT single crystal. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 121, 197-202	3.9	19
190	Lead-free BNBT-6 piezoelectric ceramic fibre/epoxy 1-3 composites for ultrasonic transducer applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 1531-1534	2.6	19
189	High frequency PMN-PT single crystal focusing transducer fabricated by a mechanical dimpling technique. <i>Ultrasonics</i> , <b>2013</b> , 53, 345-9	3.5	18
188	Effect of phase transformation on the converse magnetoelectric properties of a heterostructure of Ni <sub>49.2</sub> Mn <sub>29.6</sub> Ga <sub>21.2</sub> and 0.7PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> -0.3PbTiO <sub>3</sub> crystals. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 182503	3.4	18
187	Dielectric behavior and phase transition in perovskite oxide Pb(Fe <sub>1/2</sub> Nb <sub>1/2</sub> ) <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> single crystal. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 124109	2.5	18
186	Large one-dimensional band gaps in three-component phononic crystals plates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 366, 493-496	2.3	18
185	Processing effects on the microstructure and ferroelectric properties of Pb(Zr,Ti)O <sub>3</sub> thin films prepared by sol-gel process. <i>Surface and Coatings Technology</i> , <b>2002</b> , 161, 169-173	4.4	18
184	Effects of texture on the dielectric properties of Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> thin films prepared by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 1253-1256	2.6	18
183	Anodic aluminum oxide-epoxy composite acoustic matching layers for ultrasonic transducer application. <i>Ultrasonics</i> , <b>2016</b> , 70, 29-33	3.5	18
182	Endoscopic ultrasound radial array transducers fabricated with PZT tube by a rotate-and-dice method. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 201, 357-362	3.9	17
181	Preparation and characterization of poly(vinylidene fluoride-trifluoroethylene) copolymer nanowires and nanotubes. <i>Materials Letters</i> , <b>2006</b> , 60, 2357-2361	3.3	17
180	Two-step interfacial reaction of HfO <sub>2</sub> high-k gate dielectric thin films on Si. <i>Ceramics International</i> , <b>2004</b> , 30, 1267-1270	5.1	17

179	Preparation of PCLT/P(VDF-TrFE) pyroelectric sensor based on plastic film substrate. <i>Sensors and Actuators A: Physical</i> , <b>2002</b> , 100, 231-235	3.9	17
178	Behavior of a PZT ring under non-uniform mechanical stress. <i>Ultrasonics</i> , <b>2002</b> , 39, 735-42	3.5	17
177	The effects of composition gradients of $BaxSr_{1-x}TiO_3$ thin films on their microstructures, dielectric and optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 103, 246-252	3.1	17
176	Degradation in lead zirconate titanate piezoelectric ceramics by high power resonant driving. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 99, 203-206	3.1	17
175	Effects of rare earth Eu doping on ferroelectric properties of $PbZr_{0.52}Ti_{0.48}O_3$ thin films by sol-gel methods. <i>Microelectronic Engineering</i> , <b>2003</b> , 66, 726-732	2.5	17
174	Bidirectional current-voltage converters based on magnetostrictive/piezoelectric composites. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 263504	3.4	16
173	Synthesis of fine-crystalline $Ba_{0.6}Sr_{0.4}TiO_3/MgO$ ceramics by novel hybrid processing route. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 1218-1222	3.9	16
172	Dielectric properties and high tunability of (1 0 0)- and (1 1 0)-oriented $(Ba_{0.5}Sr_{0.5})TiO_3$ thin films prepared by pulsed laser deposition. <i>Journal of Crystal Growth</i> , <b>2005</b> , 285, 613-619	1.6	16
171	Step-changed long-period fiber gratings. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 657-659	2.2	16
170	Dielectric and pyroelectric properties of P(VDF-TrFE) and PCLT/P(VDF-TrFE) $\text{O}_3$ nanocomposite films. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1999</b> , 30, 163-167	8.4	16
169	Epitaxial growth and interface strain coupling effects in manganite film/piezoelectric-crystal multiferroic heterostructures. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 42-46	4.4	15
168	Dielectric properties of $(Ba,Ca)(Zr,Ti)O_3/CaRuO_3$ heterostructure thin films prepared by pulsed laser deposition. <i>Vacuum</i> , <b>2009</b> , 83, 1018-1021	3.7	15
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166	Magnetolectric effect from the direct coupling of the Lorentz force from a brass ring with transverse piezoelectricity in a lead zirconate titanate (PZT) disk. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 1025-1027	2.6	15
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164	A novel drum piezoelectric-actuator. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 84, 385-389	2.6	15
163	Structural, magnetic, and magnetostrictive properties of $Tb_{1-x}Nd_x(Fe_{0.9}B_{0.1})_2$ alloys. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 2772-2774	2	15
162	UV laser micromachining of piezoelectric ceramic using a pulsed Nd:YAG laser. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 78, 415-421	2.6	15

161	Fabrication and magnetic behavior of Co/Ni nanowire arrays with small diameters. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 353, 187-191	2.8	15
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158	The strain effect and the ferroelectric field effect in LaMnO <sub>3</sub> +film/Pb(Mg <sub>1</sub> /3Nb <sub>2</sub> /3)O <sub>3</sub> PbTiO <sub>3</sub> single-crystal heterostructures. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 581, 530-533	5.7	14
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154	Large Magnetostriction in Epoxy-Bonded Terfenol-D Continuous-Fiber Composite With [112] Crystallographic Orientation. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 3111-3113	2	14
153	Magnetolectric effect in laminate composite of magnets/0.7Pb(Mg <sub>1</sub> 3Nb <sub>2</sub> )O <sub>3</sub> 0.3PbTiO <sub>3</sub> single crystal. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 142504	3.4	14
152	Fabrication and characterization of epitaxial Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> thin films for optical waveguide applications. <i>Applied Optics</i> , <b>2006</b> , 45, 1972-8	1.7	14
151	Comparison of VO <sub>2</sub> thin films prepared by inorganic sol-gel and IBED methods. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 78, 777-780	2.6	14
150	Leakage current and pyroelectric properties of compositionally graded (Pb,Ca)TiO <sub>3</sub> films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 78, 1205-1209	2.6	14
149	Compositionally graded epitaxial barium strontium titanate thin films derived from pulsed laser deposition. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 79, 164-168	4.4	14
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146	Fabrication of nano-scaled patterns on ceramic thin films and silicon substrates by soft ultraviolet nanoimprint lithography. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 959-962	2.5	13
145	Fabrication and characterization of NiB(VDF-TrFE) nanoscaled coaxial cables. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 253107	3.4	13
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140	Effect of electrode pattern on the outputs of piezosensors for wire bonding process control. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 99, 121-126	3.1	12
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137	Hydrogen-induced degradation in SrTiO <sub>3</sub> -based grain boundary barrier layer ceramic capacitors. <i>Ceramics International</i> , <b>2009</b> , 35, 953-956	5.1	11
136	Formation and characterization of three-ply structured multiferroic Sm <sub>0.88</sub> Nd <sub>0.12</sub> Fe <sub>1.93</sub> Pb(Zr <sub>0.53</sub> Ti <sub>0.47</sub> )O <sub>3</sub> ceramic composites via a solid solution process. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 1753-1761	6	11
135	Magnetoelectric effect in composites of magnet, metal-cap, and piezoceramic. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 86, 525-528	2.6	11
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126	MgTiO <sub>3</sub> doping effect on dielectric properties of Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> ceramics via a molten salt process. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 597-601	8.4	10

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123	Dependence of capacitance on electrode configuration for ferroelectric films with interdigital electrodes. <i>Microelectronic Engineering</i> , <b>2003</b> , 66, 880-886	2.5	10
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119	Focused intravascular ultrasonic probe using dimpled transducer elements. <i>Ultrasonics</i> , <b>2015</b> , 56, 227-313	3.5	9
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110	Magnetic field-induced strain and magnetoelectric effects in sandwich composite of ferromagnetic shape memory $\text{Ni-Mn-Ga}$ crystal and piezoelectric PVDF polymer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2010</b> , 57, 2147-53	3.2	8
109	Ultrahigh anisotropic damping in ferromagnetic shape memory $\text{NiMnGa}$ single crystal. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 493, 565-568	5.7	8
108	Giant magnetoelectric effect in magnet-cymbal-solenoid current-to-voltage conversion device. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 074509	2.5	8

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101	Sensors for automatic process control of wire bonding		8
100	Effect of hollow structure and covalent bonding on the mechanical properties of core-shell silica nanoparticles modified poly(methyl acrylate) composites. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 129, 77-82	4.4	7
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84	Magnetoelastic properties of polymer-bonded Sm <sub>0.88</sub> Dy <sub>0.12</sub> Fe <sub>1.93</sub> pseudo-1B composites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 908-912	2.8	7
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81	Strong magnetolectric coupling in sol-gel derived multiferroic (Pb <sub>0.76</sub> Ca <sub>0.24</sub> )TiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> composite films. <i>Solid State Sciences</i> , <b>2012</b> , 14, 1492-1495	3.4	6
80	In situ dynamical control of the strain and magnetoresistance of La <sub>0.7</sub> Ca <sub>0.15</sub> Sr <sub>0.15</sub> MnO <sub>3</sub> thin films using the magnetostriction of Terfenol-D alloy. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4878-4881	5.7	6
79	Transfer imprint lithography using a soft mold. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 2632-2635	2.5	6
78	PT/P(VDF-TrFE) Nanocomposites for Ultrasonic Transducer Applications. <i>Ferroelectrics</i> , <b>2004</b> , 304, 19-22	2.6	6
77	Dielectric properties of titanate based ceramic capacitors using electroless Ni as contact electrodes. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 88, 113-118	4.4	6
76	Pulsed-laser-deposited epitaxial aluminum nitride films on (111) Si for surface acoustic-wave applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 93-96	2.6	6
75	Behaviors of piezoelectric vibrators driven by high electric-field at the frequencies near resonance. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 82, 758-763	4.4	6
74	Structural and ferroelectric properties of europium doped lead zirconate titanate thin films by a sol-gel method. <i>Thin Solid Films</i> , <b>2003</b> , 424, 161-164	2.2	6
73	H <sub>2</sub> O-induced degradation in TiO <sub>2</sub> -based ceramic capacitors. <i>Materials Letters</i> , <b>2003</b> , 57, 4351-4355	3.3	6
72	Characterization of 90° domain structure and polarization switching in Pb(Zr <sub>0.4</sub> Ti <sub>0.6</sub> )O <sub>3</sub> film by piezoresponse force microscope. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 997-1000	2.6	6

71	Ultrasonic Transducer Fabricated Using Lead-Free BFO-BTO+Mn Piezoelectric 1-3 Composite. <i>Actuators</i> , <b>2015</b> , 4, 127-134	2.4	5
70	Epitaxial growth and rectification characteristics of double perovskite oxide La <sub>2</sub> NiMnO <sub>6</sub> films on Nb-SrTiO <sub>3</sub> single crystal substrates. <i>Thin Solid Films</i> , <b>2011</b> , 519, 6148-6150	2.2	5
69	Temperature evolution of anisotropic stress induced highly ordered stripe magnetic domains in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin film on (110) NdGaO <sub>3</sub> substrate. <i>Solid State Communications</i> , <b>2010</b> , 150, 2028-2031 <sup>1.6</sup>	1.6	5
68	Converse magnetoelectric effect in three-phase composites of piezoceramic, metal cap, and magnet. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 09N508	2.5	5
67	Large Lamb wave band gap in phononic crystals thin plates. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 90, 557-559	1.9	5
66	Effect of Geometry on the Characteristics of a Drum Actuator. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2007</b> , 18, 1077-1082	2.3	5
65	Formation of Ge nanocrystals by utilizing nanocluster source. <i>Materials Science in Semiconductor Processing</i> , <b>2006</b> , 9, 817-822	4.3	5
64	A comparative microstructural study of compositionally up- and down-graded (Ba,Sr)TiO <sub>3</sub> thin films epitaxially grown on (La,Sr)CoO <sub>3</sub> -covered MgO(100) substrates by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 82, 709-713	2.6	5
63	Magnetoelectric properties of a heterostructure of magnetostrictive and piezoelectric composites. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 3042-3044	2	5
62	Hydrogen-induced resistance degradation in NiCuZn ferrites. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 353, 41-45	2.8	5
61	Longitudinal strain response of a 0.9PMN <sub>0.1</sub> PT multilayer actuator. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 75, 196-201	4.4	5
60	Preparation of epitaxial compositionally graded (Ba <sub>1-x</sub> Sr <sub>x</sub> )TiO <sub>3</sub> thin films with enhanced dielectric properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 77, 499-505	2.6	5
59	A thermal study on phase transition of high-energy electron-irradiated P(VDF-TrFE) 80/20 mol% copolymers. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 81, 166-173	4.4	5
58	Influence of electroless nickel plating on I-V characteristics and its implications for reliability in ZnO-based ceramic varistors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 99, 70-73	3.1	5
57	Switching fatigue of ferroelectric layered-perovskite thin films: temperature effect. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 118, 225-228	3.1	5
56	Hydrogen-induced degradation in NiCuZn ferrite-based multilayer chip inductors. <i>Materials Letters</i> , <b>2005</b> , 59, 1636-1639	3.3	5
55	Pyroelectric properties of PZT/P(VDF-TrFE) 0-3 composites		5
54	Epitaxial growth and dielectric properties of BSZT thin films on SrTiO <sub>3</sub> :Nb single crystal substrate prepared by pulsed laser deposition. <i>Surface and Coatings Technology</i> , <b>2013</b> , 229, 162-164	4.4	4

53	Magnetostriction-strain-induced enhancement and modulation of photovoltaic performance in Si-p <sub>n</sub> /TbxDy <sub>1-x</sub> Fe <sub>2</sub> composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 641-644	1.6	4
52	Anisotropy of the electrical transport properties in a Ni <sub>2</sub> MnGa single crystal: Experiment and theory. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 083713	2.5	4
51	Dipole alignment and dielectric susceptibility of defective ferroelectric: Monte-Carlo simulation. <i>Computational Materials Science</i> , <b>2005</b> , 33, 66-73	3.2	4
50	Effects of electrolysis of water on the properties of soft lead zirconate titanate piezoelectric ceramics. <i>Ceramics International</i> , <b>2006</b> , 32, 583-586	5.1	4
49	Possible mechanism for tunneling magnetoresistance in La <sub>0.9</sub> Ba <sub>0.1</sub> MnO <sub>3</sub> /Nb-doped SrTiO <sub>3</sub> p-n junctions. <i>Solid State Communications</i> , <b>2004</b> , 131, 383-387	1.6	4
48	Study of polarization switching in PZT films with RuO <sub>2</sub> electrodes by conducting atomic force microscopy. <i>Materials Characterization</i> , <b>2002</b> , 48, 249-253	3.9	4
47	Effect of hybrid structure (1D composite and ceramic) on the performance of sandwich transducers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 99, 6-10	3.1	4
46	BaPbO <sub>3</sub> conductive coating layers on platinized Si substrate for the growth of PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> thin films. <i>Materials Letters</i> , <b>2004</b> , 58, 1885-1888	3.3	4
45	Piezoelectric PMN-PT fibre hydrophone for ultrasonic transducer calibration. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 105-110	2.6	4
44	PCLT/P (VDF-TrFE) nanocomposite pyroelectric sensors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2001</b> , 48, 154-60	3.2	4
43	Photonic gap vanishing in one-dimensional photonic crystals with single-negative metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2465-2470	2.3	3
42	Precision piezoelectric acoustic position detector. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 128, 290-295	3.9	3
41	Structural changes and phase behavior of electron-irradiated poly(vinylidene-trifluoroethylene) copolymers. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 83, 298-306	4.4	3
40	Depolarizing a ferroelectric film by ac fields of diminishing amplitude. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 1931-1934	2.6	3
39	Electron-irradiated electrostrictive P(VDF-TrFE) copolymer transducers. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 112, 134-141	3.9	3
38	Ultrasonic transducers using electron-irradiated vinylidene fluoride-trifluoroethylene copolymers. <i>Ultrasonics</i> , <b>2003</b> , 41, 223-8	3.5	3
37	Leakage current and relaxation characteristics of electron-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Materials Letters</i> , <b>2004</b> , 58, 1064-1070	3.3	3
36	Change of material parameters of lead zirconate titanate rings after applying non-uniform mechanical stress. <i>Materials Letters</i> , <b>2004</b> , 58, 1616-1619	3.3	3

35	Resonances in 1-3 piezocomposite rings. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 1793-1799	2.6	3
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32	Piezoelectric and pyroelectric properties of PT/P(VDF-TrFE) 0-3 composites		3
31	Effect of Ceramic Anisotropy on the Properties of Ceramic/Polymer Piezoelectric Composites <b>1987</b> ,		3
30	Monitoring crosslinking and polymerization of elastomeric adhesives and sealants by dynamic mechanical analysis at 100 kHz. <i>European Polymer Journal</i> , <b>1985</b> , 21, 377-382	5.2	3
29	Design optimization of vibration isolation system through minimization of vibration power flow. <i>Structural Engineering and Mechanics</i> , <b>2008</b> , 28, 677-694		3
28	Effects of electric-field-induced piezoelectric strain on the electronic transport properties of La <sub>0.9</sub> Ce <sub>0.1</sub> MnO <sub>3</sub> thin films. <i>Thin Solid Films</i> , <b>2012</b> , 525, 45-48	2.2	2
27	Electro-optic characterization of epitaxial Ba <sub>0.7</sub> Sr <sub>0.3</sub> TiO <sub>3</sub> thin films using prism coupling technique. <i>Current Applied Physics</i> , <b>2011</b> , 11, S52-S55	2.6	2
26	Photonic crystal cavity embedded barium strontium titanate thin-film rib waveguide prepared by focused ion beam etching. <i>Thin Solid Films</i> , <b>2010</b> , 518, e101-e103	2.2	2
25	Properties of nanocrystalline PT powder and PT/P(VDF-TrFE) 0-3 nanocomposites		2
24	Initiation and propagation of cracks in piezoelectric ring under non-uniform mechanical loading. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 75, 190-195	4.4	2
23	Remanence enhancement of Potts spin lattice: Monte-Carlo simulation. <i>Solid State Communications</i> , <b>2001</b> , 119, 441-445	1.6	2
22	Investigation of the trap states in quenched and annealed nylon 6 films using thermally stimulated depolarization current		2
21	Piezoelectric coefficients of PMN-0.33PT single crystals		2
20	Development of smart transducer with embedded sensor for automatic process control of ultrasonic wire bonding. <i>Smart Structures and Systems</i> , <b>2005</b> , 1, 47-61		2
19	CONTROLLING THE ELECTROMAGNETIC FIELD BY INDEFINITE MEDIA WITH EXTREMELY STRONG ANISOTROPY. <i>Progress in Electromagnetics Research</i> , <b>2012</b> , 130, 513-524	3.8	1
18	Performance study of an ultrasonic transducer used for wire bonding <b>1998</b> ,		1

17	TEM investigation of hydrogen-implanted and annealed single-crystal SrTiO <sub>3</sub> . <i>Current Applied Physics</i> , <b>2006</b> , 6, 583-586	2.6	1
16	Spin orientation and spontaneous magnetostriction of multicomponent Tb/sub x/Dy/sub 1-x-y/Pr/sub y/(Fe/sub 0.9/B/sub 0.1)/sub 1.93/ Laves phases. <i>IEEE Transactions on Magnetics</i> , <b>2004</b> , 40, 2766-2768	2	1
15	Dielectric properties and relaxation of SrBi <sub>2</sub> (Nb <sub>0.25</sub> Ta <sub>0.75</sub> ) <sub>2</sub> O <sub>9</sub> ceramic at RF frequency. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 1769-1773	6	1
14	Characteristics of bonds produced by full ceramic and composite ultrasonic transducers. <i>Solid-State Electronics</i> , <b>2004</b> , 48, 1531-1537	1.7	1
13	Dynamic hysteresis in a planar XY model and its scaling property. <i>Materials Letters</i> , <b>2003</b> , 57, 1520-1527	3.3	1
12	Properties of PbTiO <sub>3</sub> (Bi <sub>1/2</sub> Na <sub>1/2</sub> )(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> piezoelectric ceramics with high Curie temperature. <i>Materials Letters</i> , <b>2003</b> , 57, 3667-3670	3.3	1
11	Development of a piezoelectric induced-strain actuator with an innovative internal amplifying structure <b>2005</b> , 5764, 22		1
10	Structural and property changes of high energy proton-irradiated poly(vinylidene fluoride-trifluoroethylene) 56/44 mol.% copolymer		1
9	Analysis of the resonance modes of PZT/epoxy 1-3 composite rings		1
8	TEMPORAL MODULATION OF LIGHT INTENSITY VIA 1D TIME-VARIANT PHOTONIC CRYSTAL STRUCTURE. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 135, 627-639	3.8	
7	XRD Study on D-Values of Modified PbTiO <sub>3</sub> Ceramics during Poling Process. <i>Advanced Materials Research</i> , <b>2010</b> , 177, 37-40	0.5	
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