

Kenji Uchino

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.

310
papers

15,686
citations

55
h-index

118
g-index

330
ext. papers

17,081
ext. citations

2.1
avg, IF

6.58
L-index

#	Paper	IF	Citations
310	Fundamentals of Piezoelectrics 2022 , 1-21		
309	Piezoelectric Devices for Sustainability Technologies 2022 ,		
308	Piezoelectric Energy Harvesting: A Systematic Review of Reviews. <i>Actuators</i> , 2021 , 10, 312	2.4	2
307	Depolarization field effect on elasticity of unpoled piezoelectric ceramics. <i>Applied Materials Today</i> , 2021 , 23, 101020	6.6	
306	Determination of anisotropic intensive piezoelectric loss in polycrystalline ceramics. <i>Ceramics International</i> , 2021 , 47, 16309-16315	5.1	
305	Magnetolectric composite materials 2021 , 351-390		
304	Partial electrode method for loss and physical parameter determination of piezoceramics: Simplification, error investigation and applicability. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5900-5908	6	1
303	Electrothermal Phenomena in Ferroelectrics. <i>Actuators</i> , 2020 , 9, 93	2.4	1
302	Improvement of the standard characterization method on k33 mode piezoelectric specimens. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112124	3.9	7
301	Analytical modeling of k33 mode partial electrode configuration for loss characterization. <i>Journal of Applied Physics</i> , 2020 , 127, 204102	2.5	4
300	DC bias electric field and stress dependence of piezoelectric parameters in lead zirconate titanate ceramics [Phenomenological approach]. <i>Ceramics International</i> , 2020 , 46, 15572-15580	5.1	1
299	Thermal Conductivities of PZT Piezoelectric Ceramics under Different Electrical Boundary Conditions 2020 , 3, 10		2
298	High power piezoelectric characterization system (HiPoCS) <i>Ferroelectrics</i> , 2020 , 569, 21-49	0.6	1
297	. <i>IEEE Access</i> , 2020 , 8, 181848-181854	3.5	4
296	Compressive stress effect on the loss mechanism in a soft piezoelectric Pb(Zr,Ti)O. <i>Review of Scientific Instruments</i> , 2019 , 90, 075001	1.7	6
295	Introduction to piezoelectric actuators: research misconceptions and rectifications. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SG0803	1.4	8
294	Ferroelectrics 2019 , 1-27		

293	Improvement of electromechanical coupling coefficient in shear-mode of piezoelectric ceramics. <i>Ceramics International</i> , 2019 , 45, 1496-1502	5.1	9
292	Development of a compact ring type MDOF piezoelectric ultrasonic motor for humanoid eyeball orientation system. <i>Sensors and Actuators A: Physical</i> , 2018 , 272, 1-10	3.9	29
291	Improving high-power properties of PZT ceramics by external DC bias field. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3044-3053	3.8	7
290	Piezoelectric Energy Harvesting Systems Essentials to Successful Developments. <i>Energy Technology</i> , 2018 , 6, 829-848	3.5	42
289	7.21 Piezoelectric Composite Sensors 2018 , 408-419		
288	Polarization orientation dependence of piezoelectric losses in soft lead Zirconate-Titanate ceramics. <i>Journal of Electroceramics</i> , 2018 , 40, 16-22	1.5	5
287	New methodology for determining the dielectric constant of a piezoelectric material at the resonance frequency range. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 1940-1948	3.8	8
286	3.24 Piezoelectro Composites 2018 , 613-624		2
285	Piezoelectric energy harvesting systems with metal oxides 2018 , 91-126		5
284	7.18 Smart Composite Materials Systems 2018 , 358-363		2
283	A new equivalent circuit for piezoelectrics with three losses and external loads. <i>Sensors and Actuators A: Physical</i> , 2017 , 256, 77-83	3.9	15
282	Driving an inductive piezoelectric transducer with class E inverter. <i>Sensors and Actuators A: Physical</i> , 2017 , 261, 219-227	3.9	22
281	Photomechanical Effects in Piezoelectric Ceramics 2017 , 275-301		
280	Manufacturing Methods for Piezoelectric Ceramic Materials 2017 , 385-421		2
279	Low temperature co-fired multilayer piezoelectric transformers for high power applications. <i>Materials and Design</i> , 2017 , 132, 512-517	8.1	10
278	Crystallographic approach to obtain intensive elastic parameters of k33 mode piezoelectric ceramics. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5109-5112	6	5
277	Characterization of piezoelectric ceramics using the burst/transient method with resonance and antiresonance analysis. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 998-1010	3.8	9
276	The Development of Piezoelectric Materials and the New Perspective 2017 , 1-92		17

275	Piezoelectric Composite Materials 2017 , 353-382		4
274	Manufacturing Technologies for Piezoelectric Transducers 2017 , 615-644		1
273	High-Power Piezoelectrics and Loss Mechanisms 2017 , 647-754		8
272	Photostrictive Actuators Based on Piezoelectrics 2017 , 755-785		3
271	Antiferroelectric Shape Memory Ceramics. <i>Actuators</i> , 2016 , 5, 11	2.4	18
270	Single-phase driven ultrasonic motor using two orthogonal bending modes of sandwiching piezo-ceramic plates. <i>Review of Scientific Instruments</i> , 2016 , 87, 115004	1.7	18
269	Advanced methodology for measuring the extensive elastic compliance and mechanical loss directly in k31 mode piezoelectric ceramic plates. <i>Journal of Applied Physics</i> , 2016 , 120, 225113	2.5	11
268	Driving frequency optimization of a piezoelectric transducer and the power supply development. <i>Review of Scientific Instruments</i> , 2016 , 87, 105003	1.7	21
267	Resonant-type inertial impact motor with rectangular pulse drive. <i>Sensors and Actuators A: Physical</i> , 2016 , 248, 29-37	3.9	16
266	Piezoelectric actuator renaissance. <i>Phase Transitions</i> , 2015 , 88, 342-355	1.3	18
265	Losses in piezoelectrics derived from a new equivalent circuit. <i>Journal of Electroceramics</i> , 2015 , 35, 1-10	1.5	17
264	Glory of piezoelectric perovskites. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 046001	7.1	53
263	Evaluation of the mechanical quality factor under high power conditions in piezoelectric ceramics from electrical power. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 541-544	6	25
262	Investigating the frequency spectrum of mechanical quality factor for piezoelectric materials based on phenomenological model. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 101501	1.4	11
261	Thermal diffusivity measurements using insulating and isothermal boundary conditions. <i>Review of Scientific Instruments</i> , 2014 , 85, 015117	1.7	2
260	Methodology for Characterizing Loss Factors of Piezoelectric Ceramics. <i>Ferroelectrics</i> , 2014 , 470, 260-270	0.6	16
259	Piezoelectric Actuator Renaissance. <i>Energy Harvesting and Systems</i> , 2014 , 1, 45-56	4.4	15
258	Single Source Hybrid Drive for Multi-Functional Ultrasonic Motor. <i>Integrated Ferroelectrics</i> , 2014 , 158, 131-145	0.8	2

257	High Power Performance of Manganese-Doped BNT-Based Pb-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3192-3196	3.8	31
256	Characterization of Mechanical Loss in Piezoelectric Materials Using Temperature and Vibration Measurements. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2810-2814	3.8	17
255	High power characterization of (Na _{0.5} K _{0.5})NbO ₃ based lead-free piezoelectric ceramics. <i>Sensors and Actuators A: Physical</i> , 2013 , 200, 44-46	3.9	13
254	Loss integration in ATILA software 2013 , 45-65		
253	Overview of the ATILA finite element method (FEM) software code 2013 , 3-25e		
252	Mn dopant on the domain stabilization effect of aged BaTiO ₃ and PbTiO ₃ -based piezoelectrics. <i>Applied Physics Letters</i> , 2012 , 101, 242903	3.4	34
251	High Power Characteristics of Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3383-3386	3.8	48
250	Derivation of Magnetostrictive Losses from Admittance Spectra. <i>Advanced Materials Research</i> , 2012 , 490-495, 922-926	0.5	
249	Characterization of Magnetostrictive Losses Using Complex Parameters. <i>Advanced Materials Research</i> , 2012 , 490-495, 985-989	0.5	4
248	Piezoelectric ceramics for transducers 2012 , 70-116		8
247	Applications of Lead-Free Piezoelectrics 2012 , 511-528		4
246	Design Optimization of a Dual Function Piezoelectric Actuator. <i>Applied Mechanics and Materials</i> , 2012 , 229-231, 795-798	0.3	0
245	Analysis of longitudinal and torsional resonance vibrations of a piezoelectrically excited bar by introducing piezoelectric loss coefficients. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 453-462	2.3	5
244	Photostrictive Microactuators 2012 , 153-175		1
243	Effects of PZT particle-enhanced ply interfaces on the vibration damping behavior of CFRP composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1477-1482	8.4	15
242	Loss Factor Characterization Methodology for Piezoelectric Ceramics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 092027	0.4	3
241	Design of Translation Rotary Ultrasonic Motor with Slanted Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027301	1.4	11
240	LOSS DETERMINATION METHODOLOGY FOR A PIEZOELECTRIC CERAMIC: NEW PHENOMENOLOGICAL THEORY AND EXPERIMENTAL PROPOSALS. <i>Journal of Advanced Dielectrics</i> , 2011 , 01, 17-31	1.3	81

239	High Power (Na _{0.5} K _{0.5})NbO ₃ -Based Lead-Free Piezoelectric Transformer. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027101	1.4	13
238	High Power (Na _{0.5} K _{0.5})NbO ₃ -Based Lead-Free Piezoelectric Transformer. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027101	1.4	6
237	Design of Translation Rotary Ultrasonic Motor with Slanted Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027301	1.4	14
236	Microscopic Region Effect on the Dielectric Property of the Diffused Phase Transition Ferroelectrics: A Reasonable and Effective Diffuseness Characterizing Parameter. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4011-4014	3.8	14
235	Photostrictive actuators using piezoelectric materials 2010 , 599-627		2
234	Multilayer technologies for piezo-ceramic materials 2010 , 387-411		1
233	Manufacturing technologies for piezoelectric transducers 2010 , 539-557		
232	High power piezoelectric materials 2010 , 561-598		3
231	Piezoelectric composite materials 2010 , 318-346		3
230	Active Optical Fiber Alignment with a Piezoelectric Ultrasonic Motor Integrated Into Low Temperature Cofired Ceramics. <i>Journal of Intelligent Material Systems and Structures</i> , 2010 , 21, 469-479	2.3	6
229	Relaxor ferroelectric-based ceramics 2010 , 111-129		1
228	Manufacturing methods for piezoelectric ceramic materials 2010 , 349-386		3
227	Energy Flow Analysis in Piezoelectric Energy Harvesting Systems. <i>Ferroelectrics</i> , 2010 , 400, 305-320	0.6	36
226	Comparison of Power Density Characteristics among Disk and Plate Shaped Piezoelectric Devices. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 021502	1.4	10
225	Analysis on Loss Anisotropy of Piezoelectrics with Γ nm Crystal Symmetry. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 021503	1.4	18
224	Piezoelectric Pump Using a Cymbal Transducer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 095201	1.4	
223	Piezoelectric Loss Performance in Pb(Mg _{1/3} Nb _{2/3})O ₃ PbTiO ₃ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 071502	1.4	5
222	The development of piezoelectric materials and the new perspective 2010 , 1-85		9

221	Design of thin cross type ultrasonic motor. <i>Journal of Electroceramics</i> , 2010 , 24, 288-293	1.5	13
220	Advanced piezoelectric materials 2010 ,		50
219	Meso-Scale Piezoelectric Gripper with High Dexterity. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 044501	1.4	3
218	Derivation of Piezoelectric Losses from Admittance Spectra. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 041401	1.4	44
217	Development of a High Power Piezoelectric Characterization System and Its Application for Resonance/Antiresonance Mode Characterization. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 056509	1.4	63
216	Motional characteristics of thin piezoelectric rotary motor using cross shaped stator. <i>Journal of Electroceramics</i> , 2009 , 23, 317-321	1.5	5
215	High Power Piezoelectric Transformers with $Pb(Mg_{1/3}Nb_{2/3})O_3/PbTiO_3$ Single Crystals. <i>Applied Physics Express</i> , 2009 , 2, 121402	2.4	14
214	Loss mechanisms and high-power piezoelectric components 2008 , 475-502		
213	Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 313-318	1.4	9
212	Piezoelectric actuators 2006. <i>Journal of Electroceramics</i> , 2008 , 20, 301-311	1.5	119
211	Piezoelectric properties of low temperature sintering in $Pb(Zr,Ti)O_3/Pb(Zn,Ni)_{1/3}Nb_{2/3}O_3$ ceramics for piezoelectric transformer applications. <i>Ceramics International</i> , 2008 , 34, 705-708	5.1	15
210	Piezoelectric Motors and Transformers. <i>Springer Series in Materials Science</i> , 2008 , 257-277	0.9	7
209	Analytical solutions for the transverse deflection of a piezoelectric circular axisymmetric unimorph actuator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1240-9	3.2	32
208	Consideration of impedance matching techniques for efficient piezoelectric energy harvesting. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1851-9	3.2	129
207	Structural variation and piezoelectric properties of $0.95(Na_{0.5}K_{0.5})NbO_3/0.05BaTiO_3$ ceramics. <i>Sensors and Actuators A: Physical</i> , 2007 , 136, 255-260	3.9	48
206	Microstructure and Piezoelectric Properties of $(1-x)(Na_{0.5}K_{0.5})NbO_3-xLiNbO_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1812-1816	3.8	94
205	Microstructure and Piezoelectric Properties of $0.95(Na_{0.5}K_{0.5})NbO_3/0.05SrTiO_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1946-1949	3.8	62
204	Domain wall release in $PbTiO_3$ piezoelectric under continuous large amplitude ac excitation. <i>Journal of Applied Physics</i> , 2007 , 101, 114110	2.5	18

203	Effects of thermal and electrical histories on hard piezoelectrics: A comparison of internal dipolar fields and external dc bias. <i>Journal of Applied Physics</i> , 2007 , 101, 054109	2.5	28
202	Piezoelectric Properties of Sb-, Li-, and Mn-substituted $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics for High-Power Applications. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2667-2673	1.4	11
201	Time Dependence of the Mechanical Quality Factor in Hard Lead Zirconate Titanate Ceramics: Development of an Internal Dipolar Field and High Power Origin. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 9119-9124	1.4	32
200	Microstructure and piezoelectric properties of $0.95(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{Pb}_{0.05}\text{BaTiO}_3$ ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 062906	3.4	210
199	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 810-816	3.2	15
198	Modeling of Piezoelectric Energy Harvesting Using Cymbal Transducers. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 5836-5840	1.4	72
197	Effect of ZnO and CuO on the Sintering Temperature and Piezoelectric Properties of a Hard Piezoelectric Ceramic. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 921-925	3.8	82
196	Loss mechanisms and high power piezoelectrics. <i>Journal of Materials Science</i> , 2006 , 41, 217-228	4.3	90
195	Loss mechanisms and high power piezoelectrics 2006 , 217-228		3
194	Effect of MnO_2 on the Piezoelectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{Pb}_x\text{BaTiO}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1361-L1364	1.4	85
193	Hybrid electrooptic and piezoelectric laser beam steering in two dimensions. <i>Journal of Lightwave Technology</i> , 2005 , 23, 2772-2777	4	3
192	Low Temperature Coefficient of Resonance Frequency Composition in the System $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3\text{Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1907-1911	3.8	23
191	Piezoelectric Energy Harvesting under High Pre-Stressed Cyclic Vibrations. <i>Journal of Electroceramics</i> , 2005 , 15, 27-34	1.5	148
190	Low Temperature Sintering and Piezoelectric Properties in $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1314-1321	1.4	27
189	Effects of CuO and ZnO Additives on Sintering Temperature and Piezoelectric Properties of $0.41\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{Pb}_{0.36}\text{TiO}_3\text{Pb}_{0.23}\text{PbZrO}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 205-210	1.4	36
188	Multilayered Unipoled Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3503-3510		42
187	A Piezoelectric Micromotor with a Stator of $\phi 1.6$ mm and $l=4$ mm Using Bulk PZT. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 1429-1433	1.4	33
186	Micro Piezoelectric Ultrasonic Motors. <i>Journal of Electroceramics</i> , 2004 , 13, 393-401	1.5	76

185	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 238-248	3.2	18
184	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 227-237	3.2	3
183	Energy Harvesting Using a Piezoelectric Cymbal Transducer in Dynamic Environment. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 6178-6183	1.4	250
182	Flexural traveling wave excitation based on shear-shear mode. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 1240-1246	3.2	15
181	Piezoelectric Transformers For A High Power Module. <i>Materials Technology</i> , 2004 , 19, 79-83	2.1	4
180	Development Of High Power Piezoelectrics With Enhanced Vibrational Velocity. <i>Materials Technology</i> , 2004 , 19, 90-98	2.1	5
179	Effect of Yb Addition on the Sintering Behavior and High Power Piezoelectric Properties of $Pb(Zr,Ti)O_3/Pb(Mn,Nb)O_3$. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 1307-1310	1.4	29
178	Estimation of Polarocaloric Contribution to Dielectric Loss in Oriented $0.92Pb(Zn_{1/3}Nb_{2/3})O_3/0.08PbTiO_3$ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 5158-5164	1.4	8
177	Design of a Circular Piezoelectric Transformer with Crescent-Shaped Input Electrodes. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 509-514	1.4	20
176	Finite element modeling and optimization of tube-shaped ultrasonic motors 2003 ,		2
175	Integration of a piezoelectric transformer and an ultrasonic motor. <i>Ultrasonics</i> , 2003 , 41, 83-7	3.5	22
174	Piezoelectric ultrasonic micromotor with 1.5 mm diameter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 361-7	3.2	103
173	A 1.6-mm, metal tube ultrasonic motor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 782-6	3.2	93
172	Accurate determination of complex materials coefficients of piezoelectric resonators. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 312-20	3.2	51
171	4.1 Piezoelectric Ceramics 2003 , 107-159		3
170	Induction of combinatory characteristics by relaxor modification of $Pb(Zr_{0.5}Ti_{0.5})O_3$. <i>Applied Physics Letters</i> , 2003 , 83, 5020-5022	3.4	29
169	High-Tm relaxor ferroelectrics: $0.3BiScO_3/0.6PbTiO_3/0.1Pb(Mn_{1/3}Nb_{2/3})O_3$. <i>Applied Physics Letters</i> , 2003 , 82, 251-253	3.4	26
168	Novel High Power Piezoelectrics for Transformers and Actuators. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 785, 161		

167	Piezoelectric Ring-Morph Actuators for Valve Application 2002 , 8, 155-161		37
166	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials 2002 , 8, 107-119		560
165	Effects of rare earth metal substituents on the piezoelectric and polarization properties of Pb(Zr,Ti)O ₃ /Pb(Sb,Mn)O ₃ ceramics. <i>Journal of Applied Physics</i> , 2002 , 92, 2094-2099	2.5	47
164	Investigation of Electromechanical Properties of 0.68 Pb(Mg 1/3 Nb 2/3)O ₃ -0.32 PbTiO ₃ Single Crystals under Uniaxial and Hydrostatic Pressures. <i>Ferroelectrics</i> , 2002 , 274, 299-307	0.6	7
163	High Power Piezoelectric Characteristics of BiScO ₃ /PbTiO ₃ /Pb(Mn1/3Nb2/3)O ₃ . <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 6040-6044	1.4	32
162	Mechanical Aging Behavior of Pb(Zn 1/3 Nb 2/3)O ₃ -PbTiO ₃ and Pb(Mg 1/3 Nb 2/3)O ₃ -PbTiO ₃ Single Crystals. <i>Integrated Ferroelectrics</i> , 2002 , 50, 135-142	0.8	1
161	Characteristics of the First Longitudinal-Fourth Bending Mode Linear Ultrasonic Motors. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 7139-7143	1.4	41
160	Unipoled Disk-type Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 1446-1450	1.4	52
159	A 'Center-Wobbling' Ultrasonic Rotary Motor Using a Metal Tube-Piezoelectric Plate Composite Stator. <i>Journal of Intelligent Material Systems and Structures</i> , 2002 , 13, 749-755	2.3	13
158	Application of the genetic optimizaton method to the design of ultrasonic motors 2002 , 4693, 547		
157	A piezoelectric motor using two orthogonal bending modes of a hollow cylinder. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 495-500	3.2	101
156	Novel method for driving the ultrasonic motor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1356-62	3.2	12
155	Modeling of fatigue behavior in relaxor piezocrystals: Improved characteristics by Mn substitution. <i>Journal of Applied Physics</i> , 2002 , 92, 3923-3927	2.5	18
154	Fe-substituted 0.92Pb(Zn1/3Nb2/3)O ₃ 0.08PbTiO ₃ single crystals: A hard piezocrystal. <i>Applied Physics Letters</i> , 2002 , 81, 2430-2432	3.4	43
153	Importance of structural irregularity on dielectric loss in (1-x)Pb(Mg1/3Nb2/3)O ₃ (x)PbTiO ₃ crystals. <i>Applied Physics Letters</i> , 2002 , 80, 4217-4219	3.4	39
152	Dielectric and piezoelectric properties of the Mn-substituted Pb(Zn1/3Nb2/3)O ₃ /PbTiO ₃ single crystal. <i>Journal of Applied Physics</i> , 2002 , 91, 4515-4520	2.5	52
151	Fractal cluster modeling of the fatigue behavior of lead zirconate titanate. <i>Applied Physics Letters</i> , 2002 , 80, 1625-1627	3.4	10
150	Investigation of the Ferroelectric Orthorhombic Phase in the Pb(Zn 1/3 Nb 2/3)O ₃ -PbTiO ₃ System. <i>Ferroelectrics</i> , 2002 , 274, 121-126	0.6	20

149	Photostrictive actuators -new perspective-. <i>Ferroelectrics</i> , 2001 , 258, 147-158	0.6	15
148	Electrostrictive P(VDF-TrFE) copolymer-based high-performance micromachined unimorph actuators 2001 ,		2
147	Analysis on a composite cantilever beam coupling a piezoelectric bimorph to an elastic blade. <i>Sensors and Actuators A: Physical</i> , 2001 , 89, 215-221	3.9	33
146	Novel Piezoelectric-Based Power Supply for Driving Piezoelectric Actuators Designed for Active Vibration Damping Applications 2001 , 7, 197-210		17
145	2001 , 6, 13-19		28
144	Switching Current Measurements in Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Relaxor Ferroelectric Single Crystals 2001 , 6, 109-114		6
143	Piezoelectric and Magnetolectric Properties of Lead Zirconate Titanate/Ni-Ferrite Particulate Composites 2001 , 7, 17-24		277
142	Loss mechanisms in piezoelectrics: how to measure different losses separately. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001 , 48, 307-21	3.2	211
141	Effect of the Magnetostrictive Layer on Magnetolectric Properties in Lead Zirconate Titanate/Terfenol-D Laminate Composites. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2905-2908 ^{3.8}		233
140	Effect of Crystal Orientation on Dielectric Properties of Lead Zirconium Titanate Thin Films Prepared by Reactive RF-Sputtering. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 713-717	1.4	27
139	Investigation of Elastic Nonlinearities in Pb(Zn _{1/3} Nb _{2/3})O ₃ PbTiO ₃ and Pb(Mg _{1/3} Nb _{2/3})O ₃ PbTiO ₃ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 6487-6495	1.4	8
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