

Kenji Uchino

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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	Dielectric and Piezoelectric Properties of $0.91\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.09\text{PbTiO}_3$ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 1982 , 21, 1298-1302	1.4	856
309	Dependence of the Crystal Structure on Particle Size in Barium Titanate. <i>Journal of the American Ceramic Society</i> , 1989 , 72, 1555-1558	3.8	807
308	Critical exponents of the dielectric constants in diffused-phase-transition crystals. <i>Ferroelectrics</i> , 1982 , 44, 55-61	0.6	647
307	Critical exponents of the dielectric constants in diffused-phase-transition crystals. <i>Ferroelectrics, Letters Section</i> , 1982 , 44, 55-61	0.5	647
306	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials 2002 , 8, 107-119		560
305	Phase transitions in the $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ system. <i>Ferroelectrics</i> , 1981 , 37, 579-582	0.6	557
304	Magnetolectric Properties in Piezoelectric and Magnetostrictive Laminate Composites. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 4948-4951	1.4	535
303	Piezoelectric Actuators and Ultrasonic Motors 1996 ,		414
302	Crystal orientation dependence of piezoelectric properties of lead zirconate titanate near the morphotropic phase boundary. <i>Applied Physics Letters</i> , 1998 , 72, 2421-2423	3.4	364
301	Piezoelectric ultrasonic motors: overview. <i>Smart Materials and Structures</i> , 1998 , 7, 273-285	3.4	348
300	Electrostrictive effect in lead magnesium niobate single crystals. <i>Journal of Applied Physics</i> , 1980 , 51, 1142-1145	2.5	307
299	Piezoelectric and Magnetolectric Properties of Lead Zirconate Titanate/Ni-Ferrite Particulate Composites 2001 , 7, 17-24		277
298	Large electrostrictive effects in relaxor ferroelectrics. <i>Ferroelectrics</i> , 1980 , 23, 187-191	0.6	268
297	Energy Harvesting Using a Piezoelectric Gymball Transducer in Dynamic Environment. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 6178-6183	1.4	250
296	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
295	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
294	Microstructure and piezoelectric properties of $0.95(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{-}0.05\text{BaTiO}_3$ ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 062906	3.4	210

293	Dynamic Observation of Crack Propagation in Piezoelectric Multilayer Actuators. <i>Journal of the American Ceramic Society</i> , 1993 , 76, 1615-1617	3.8	199
292	Materials issues in design and performance of piezoelectric actuators: an overview. <i>Acta Materialia</i> , 1998 , 46, 3745-3753	8.4	197
291	Electrostrictive effect in perovskites and its transducer applications. <i>Journal of Materials Science</i> , 1981 , 16, 569-578	4.3	189
290	Electrostrictive effect in Pb(Mg _{1/3} Nb _{2/3})O ₃ -type materials. <i>Ferroelectrics</i> , 1982 , 41, 117-132	0.6	177
289	Metal/Ceramic Composite Actuators. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 996-998	3.8	174
288	Composite piezoelectric transducer with truncated conical endcaps "cymbal". <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1997 , 44, 597-605	3.2	165
287	Crystal Orientation Dependence of Piezoelectric Properties in Lead Zirconate Titanate: Theoretical Expectation for Thin Films. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 5580-5587	1.4	150
286	Piezoelectric Energy Harvesting under High Pre-Stressed Cyclic Vibrations. <i>Journal of Electroceramics</i> , 2005 , 15, 27-34	1.5	148
285	Diffuse phase transition in lead zinc niobate. <i>Ferroelectrics</i> , 1978 , 22, 863-867	0.6	135
284	Change of the weak-field properties of Pb(ZrTi)O ₃ piezoceramics with compressive uniaxial stresses and its links to the effect of dopants on the stability of the polarizations in the materials. <i>Journal of Materials Research</i> , 1997 , 12, 226-234	2.5	133
283	Heat Generation in Multilayer Piezoelectric Actuators. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 3193-3198	3.8	130
282	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
281	Photostrictive actuators. <i>Mechatronics</i> , 2000 , 10, 467-487	3	121
280	Piezoelectric actuators 2006. <i>Journal of Electroceramics</i> , 2008 , 20, 301-311	1.5	119
279	The Role of Processing Variables in the Flux Growth of Lead Zinc Niobate-Lead Titanate Relaxor Ferroelectric Single Crystals. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 3984-3990	1.4	118
278	Ferroelectric Devices		113
277	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
276	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

275	Microstructure and Piezoelectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-x\text{LiNbO}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1812-1816	3.8	94
274	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
273	Dielectric spectroscopy of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. <i>Journal of Applied Physics</i> , 2001 , 90, 3504-3508	2.5	92
272	Electrostriction in PZT-family antiferroelectrics. <i>Ferroelectrics</i> , 1983 , 50, 191-196	0.6	92
271	Loss mechanisms and high power piezoelectrics. <i>Journal of Materials Science</i> , 2006 , 41, 217-228	4.3	90
270	Ceramic Actuators: Principles and Applications. <i>MRS Bulletin</i> , 1993 , 18, 42-48	3.2	86
269	Effect of MnO_2 on the Piezoelectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-x\text{BaTiO}_3$ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1361-L1364	1.4	85
268	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
267	Recent applications of PMN-based electrostrictors. <i>Ferroelectrics</i> , 1983 , 50, 197-202	0.6	82
266	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
265	Influence of sample thickness on the performance of photostrictive ceramics. <i>Journal of Applied Physics</i> , 1998 , 84, 1508-1512	2.5	77
264	Micro Piezoelectric Ultrasonic Motors. <i>Journal of Electroceramics</i> , 2004 , 13, 393-401	1.5	76
263	High Power Characterization of Piezoelectric Materials 1998 , 2, 33-40		75
262	Modeling of Piezoelectric Energy Harvesting Using Cymbal Transducers. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 5836-5840	1.4	72
261	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
260	Eu and Yb Substituent Effects on the Properties of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3\text{-Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ Ceramics: Development of a New High-Power Piezoelectric with Enhanced Vibrational Velocity. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 687-693	1.4	63
259	Microstructure and Piezoelectric Properties of $0.95(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{-}0.05\text{SrTiO}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1946-1949	3.8	62
258	Highly oriented lead zirconium titanate thin films: Growth, control of texture, and its effect on dielectric properties. <i>Journal of Applied Physics</i> , 2001 , 90, 2703-2710	2.5	61

257	Piezoelectric and Electrostrictive Actuators 1986 ,		61
256	High-power resonant measurements of piezoelectric materials: Importance of elastic nonlinearities. <i>Journal of Applied Physics</i> , 2001 , 90, 1469-1479	2.5	58
255	Mechanical Damper Using Piezoelectric Ceramics. <i>Journal of the Ceramic Society of Japan</i> , 1988 , 96, 863-867		55
254	Photostrictive effect in (Pb, La) (Zr, Ti)O ₃ . <i>Ferroelectrics</i> , 1985 , 64, 199-208	0.6	55
253	Stability of PZT Piezoelectric Ceramics under Vibration Level Change. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 2429-2432	3.8	54
252	Photostrictive Actuator Using PLZT Ceramics. <i>Japanese Journal of Applied Physics</i> , 1985 , 24, 139	1.4	54
251	Crystallographic and Dielectric Properties in the Solid Solution Systems Pb(Fe _{2/3} W _{1/3})O ₃ -Pb(Mg _{1/3} Ta _{2/3})O ₃ and Pb(MgW) _{1/2} O ₃ -Pb(FeTa) _{1/2} O ₃ . <i>Journal of the Physical Society of Japan</i> , 1976 , 41, 542-547	1.5	54
250	Glory of piezoelectric perovskites. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 046001	7.1	53
249	Unipoled Disk-type Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 1446-1450	1.4	52
248	Dielectric and piezoelectric properties of the Mn-substituted Pb(Zn _{1/3} Nb _{2/3})O ₃ PbTiO ₃ single crystal. <i>Journal of Applied Physics</i> , 2002 , 91, 4515-4520	2.5	52
247	Photostrictive effect in lanthanum-modified lead zirconate titanate ceramics near the morphotropic phase boundary. <i>Materials Chemistry and Physics</i> , 1999 , 61, 36-41	4.4	52
246	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
245	Mn-Modified Pb(Mg _{1/3} Nb _{2/3})O ₃ PbTiO ₃ Ceramics: Improved Mechanical Quality Factors for High-Power Transducer Applications. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4843-4852	1.4	51
244	Advanced piezoelectric materials 2010 ,		50
243	Electrostrictive effects in antiferroelectric perovskites. <i>Journal of Applied Physics</i> , 1981 , 52, 1455-1459	2.5	49
242	High Power Characteristics of Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3383-3386	3.8	48
241	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
240	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

239	Stability of PbZrO ₃ -PbTiO ₃ -Pb(Mn _{1/3} Sb _{2/3})O ₃ Piezoelectric Ceramics under Vibration-Level Change. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, 5328-5331	1.4	45
238	Monomorph Actuators Using Semiconductive Ferroelectrics. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, 1046-1049	1.4	45
237	Derivation of Piezoelectric Losses from Admittance Spectra. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 041401	1.4	44
236	High power characteristics at antiresonance frequency of piezoelectric transducers. <i>Ultrasonics</i> , 1996 , 34, 213-217	3.5	44
235	Fe-substituted 0.92Pb(Zn _{1/3} Nb _{2/3})O ₃ ·0.08PbTiO ₃ single crystals: A hard piezocrystal. <i>Applied Physics Letters</i> , 2002 , 81, 2430-2432	3.4	43
234	Piezoelectric Energy Harvesting Systems Essentials to Successful Developments. <i>Energy Technology</i> , 2018 , 6, 829-848	3.5	42
233	Multilayered Unipoled Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3503-3510	3.5	42
232	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
231	A class V flexensional transducer: the cymbal. <i>Ultrasonics</i> , 1999 , 37, 387-393	3.5	41
230	Piezoelectric micromotor using a metal-ceramic composite structure. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000 , 47, 836-43	3.2	40
229	Electrostrictive effects in non-polar perovskites. <i>Phase Transitions</i> , 1980 , 1, 333-341	1.3	40
228	Importance of structural irregularity on dielectric loss in (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ (x)PbTiO ₃ crystals. <i>Applied Physics Letters</i> , 2002 , 80, 4217-4219	3.4	39
227	Compact piezoelectric stacked actuators for high power applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000 , 47, 819-25	3.2	39
226	New applications of photostrictive ferroics. <i>Materials Research Innovations</i> , 1997 , 1, 163-168	1.9	38
225	Piezoelectric Ring-Morph Actuators for Valve Application 2002 , 8, 155-161		37
224	Energy Flow Analysis in Piezoelectric Energy Harvesting Systems. <i>Ferroelectrics</i> , 2010 , 400, 305-320	0.6	36
223	Effects of CuO and ZnO Additives on Sintering Temperature and Piezoelectric Properties of 0.41Pb(Ni _{1/3} Nb _{2/3})O ₃ ·0.36PbTiO ₃ ·0.23PbZrO ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 205-210	1.4	36
222	High-Voltage Photovoltaic Effect in PbTiO ₃ -Based Ceramics. <i>Japanese Journal of Applied Physics</i> , 1982 , 21, 1671-1674	1.4	36

221	Ultrasonic Motor Applications 1997 , 265-312		36
220	Cymbal array: a broad band sound projector. <i>Ultrasonics</i> , 2000 , 37, 523-9	3.5	35
219	Substituent effects on the mechanical quality factor of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ and $\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ceramics. <i>Journal of Applied Physics</i> , 2001 , 90, 1455-1458	2.5	35
218	Crystal orientation dependence of piezoelectric properties of single crystal barium titanate. <i>Materials Letters</i> , 1999 , 40, 109-113	3.3	35
217	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
216	Relaxor Ferroelectrics. <i>Journal of the Ceramic Society of Japan</i> , 1991 , 99, 829-835		34
215	Electrostriction and Its Interrelation with Other Anharmonic Properties of Materials. <i>Japanese Journal of Applied Physics</i> , 1980 , 19, L171-L173	1.4	34
214	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
213	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
212	New damping materials composed of piezoelectric and electro-conductive, particle-filled polymer composites: effect of the electromechanical coupling factor. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991 , 12, 657-661		33
211	Dielectric and magnetic properties in the solid solution system $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3$ - $\text{Pb}(\text{Co}_{1/2}\text{W}_{1/2})\text{O}_3$. <i>Ferroelectrics</i> , 1977 , 17, 505-510	0.6	33
210	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
209	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
208	High Power Piezoelectric Characteristics of BiScO_3 and $\text{Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 6040-6044	1.4	32
207	Ultrasonic linear motors using a multilayered piezoelectric actuator. <i>Ferroelectrics</i> , 1988 , 87, 331-334	0.6	32
206	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
205	Recent topics of ceramic actuators how to develop new ceramic devices. <i>Ferroelectrics</i> , 1989 , 91, 281-292.	0.6	30
204	Digital Displacement Transducer Using Antiferroelectrics. <i>Japanese Journal of Applied Physics</i> , 1985 , 24, 460	1.4	30

203	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
202	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
201	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
200	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
199	2001 , 6, 13-19		28
198	Low Temperature Sintering and Piezoelectric Properties in Pb(Zr _x Ti _{1-x})O ₃ Pb(Zn _{1/3} Nb _{2/3})O ₃ Pb(Ni _{1/3} Nb _{2/3})O ₃ Ceramics. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1314-1321	1.4	27
197	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
196	Impurity doping effect on photostriction in PLZT ceramics. <i>Materials Technology</i> , 1994 , 1, 129-143		27
195	Impurity doping effect on electrostrictive properties of (Pb,Ba) (Zr,Ti)O ₃ . <i>Ferroelectrics</i> , 1989 , 93, 373-378	6	27
194	High-T _m 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
193	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
192	An Ultrasonic Motor Using a Metal-Ceramic Composite Actuator Generating Torsional Displacement. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 5659-5662	1.4	25
191	A linear ultrasonic motor using the first longitudinal and the fourth bending mode. <i>Smart Materials and Structures</i> , 1997 , 6, 619-627	3.4	24
190	Photostriction of Sol-Gel Processed PLZT Ceramics 1997 , 1, 105-111		24
189	Low Temperature Coefficient of Resonance Frequency Composition in the System Pb(Zr,Ti)O ₃ Pb(Mn _{1/3} Nb _{2/3})O ₃ . <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1907-1911	3.8	23
188	Crystal Growth and Piezoelectric Properties of Mn-Substituted Pb(Zn _{1/3} Nb _{2/3})O ₃ Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, L1044-L1047	1.4	23
187	Driving an inductive piezoelectric transducer with class E inverter. <i>Sensors and Actuators A: Physical</i> , 2017 , 261, 219-227	3.9	22
186	Integration of a piezoelectric transformer and an ultrasonic motor. <i>Ultrasonics</i> , 2003 , 41, 83-7	3.5	22

185	Mechanical aging behavior of oriented $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{PbTiO}_3$ and $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{PbTiO}_3$ single crystals. <i>Applied Physics Letters</i> , 2001 , 79, 2624-2626	3.4	22
184	Electro-Mechanical Properties Of $\text{PbZrO}_3\text{-PbTiO}_3\text{-Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ Ceramics Under Vibration-Level Change. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 360, 305		22
183	Drive Voltage Dependence of Electromechanical Resonance in PLZT Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 1989 , 28, 47	1.4	22
182	Barium titanate-based actuator with ceramic internal electrodes. <i>Ferroelectrics</i> , 1986 , 68, 215-223	0.6	22
181	Driving frequency optimization of a piezoelectric transducer and the power supply development. <i>Review of Scientific Instruments</i> , 2016 , 87, 105003	1.7	21
180	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
179	Investigation of the Ferroelectric Orthorhombic Phase in the $\text{Pb}(\text{Zn } 1/3 \text{ Nb } 2/3)\text{O}_3\text{-PbTiO}_3$ System. <i>Ferroelectrics</i> , 2002 , 274, 121-126	0.6	20
178	Substituent-introduction of hard π polarization characteristics in soft π $\text{Pb}(\text{BiBi})\text{O}_3\text{PbTiO}_3$ ferroelectric ceramics. <i>Journal of Applied Physics</i> , 2001 , 89, 3928-3933	2.5	19
177	A very high sensitivity AC dilatometer for the direct measurement of piezoelectric and electrostrictive constants. <i>Ferroelectrics</i> , 1980 , 27, 35-39	0.6	19
176	Soft modes in relaxor ferroelectrics. <i>Phase Transitions</i> , 1981 , 2, 1-6	1.3	19
175	Piezoelectric actuator renaissance. <i>Phase Transitions</i> , 2015 , 88, 342-355	1.3	18
174	Analysis on Loss Anisotropy of Piezoelectrics with Γ mm Crystal Symmetry. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 021503	1.4	18
173	Domain wall release in hard π piezoelectric under continuous large amplitude ac excitation. <i>Journal of Applied Physics</i> , 2007 , 101, 114110	2.5	18
172	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 238-248	3.2	18
171	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
170	Measuring Methods for HighPower Characteristics of Piezoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 360, 15		18
169	Thermal Dilatation in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Crystal. <i>Japanese Journal of Applied Physics</i> , 1975 , 14, 1881-1884	4	18
168	Phenomenological Theory of Ferroelectricity in Solid Solution Systems $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3\text{Pb}(\text{M}_{1/2}\text{W}_{1/2})\text{O}_3$ (M=Mn, Co, Ni). <i>Japanese Journal of Applied Physics</i> , 1979 , 18, 1493-1497	1.4	18

167	Antiferroelectric Shape Memory Ceramics. <i>Actuators</i> , 2016 , 5, 11	2.4	18
166	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
165	Losses in piezoelectrics derived from a new equivalent circuit. <i>Journal of Electroceramics</i> , 2015 , 35, 1-10	1.5	17
164	The Development of Piezoelectric Materials and the New Perspective 2017 , 1-92		17
163	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
162	Novel Piezoelectric-Based Power Supply for Driving Piezoelectric Actuators Designed for Active Vibration Damping Applications 2001 , 7, 197-210		17
161	Photovoltaic Effect in Ferroelectric Ceramics and Its Applications. <i>Japanese Journal of Applied Physics</i> , 1983 , 22, 102	1.4	17
160	Methodology for Characterizing Loss Factors of Piezoelectric Ceramics. <i>Ferroelectrics</i> , 2014 , 470, 260-270	0.6	16
159	Longitudinal-bending mode micromotor using multilayer piezoelectric actuator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001 , 48, 1066-71	3.2	16
158	Resonant-type inertial impact motor with rectangular pulse drive. <i>Sensors and Actuators A: Physical</i> , 2016 , 248, 29-37	3.9	16
157	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
156	Piezoelectric Actuator Renaissance. <i>Energy Harvesting and Systems</i> , 2014 , 1, 45-56	4.4	15
155	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
154	Piezoelectric properties of low temperature sintering in $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{Pb}(\text{Zn,Ni})_{1/3}\text{Nb}_2/3\text{O}_3$ ceramics for piezoelectric transformer applications. <i>Ceramics International</i> , 2008 , 34, 705-708	5.1	15
153	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 810-816	3.2	15
152	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
151	Photostrictive actuators -new perspective-. <i>Ferroelectrics</i> , 2001 , 258, 147-158	0.6	15
150	Piezoelectric and Dielectric Properties of Fe_2O_3 -Doped $0.57\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{PbTiO}_3$ Ceramic Materials. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 1433-1437	1.4	15

149	Destruction mechanism of multilayer ceramic actuators: Case of antiferroelectrics. <i>Ferroelectrics</i> , 1994 , 160, 277-285	0.6	15
148	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
147	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
146	Accelerometer Application of the Modified Moonie (Cymbal) Transducer. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 4547-4549	1.4	14
145	Design of Translation Rotary Ultrasonic Motor with Slanted Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027301	1.4	14
144	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
143	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
142	Design of thin cross type ultrasonic motor. <i>Journal of Electroceramics</i> , 2010 , 24, 288-293	1.5	13
141	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
140	Interrelation of Electrostriction with Phase Transition Diffuseness Improvement of the Temperature Characteristics of Electrostriction. <i>Japanese Journal of Applied Physics</i> , 1981 , 20, 171	1.4	13
139	Novel method for driving the ultrasonic motor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 1356-62	3.2	12
138	Piezoelectric transformers. <i>Ferroelectrics</i> , 2001 , 263, 91-100	0.6	12
137	The "cymbal" electromechanical actuator		12
136	Electrostrictive Coefficient of a Rocksalt-Type Oxide MgO. <i>Journal of the Physical Society of Japan</i> , 1984 , 53, 1531-1535	1.5	12
135	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
134	Design of Translation Rotary Ultrasonic Motor with Slanted Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 027301	1.4	11
133	Piezoelectric Properties of Sb-, Li-, and Mn-substituted Pb(Zr _x Ti _{1-x})O ₃ Pb(Zn _{1/3} Nb _{2/3})O ₃ Pb(Ni _{1/3} Nb _{2/3})O ₃ Ceramics for High-Power Applications. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2667-2673	1.4	11
132	A Study of Acoustic Emission in Piezoelectric Multilayer Ceramic Actuator. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 204-209	1.4	11

131	Ultrasonic linear motor using a multilayered piezoelectric actuator. <i>Ferroelectrics</i> , 1989 , 93, 287-294	0.6	11
130	Grain Size Dependence of Electrostriction in PMN Ceramics. <i>Japanese Journal of Applied Physics</i> , 1985 , 24, 733	1.4	11
129	Crystal Growth, and Magnetic and Mössbauer Studies of Sr(Fe _{0.766} W _{0.234})O ₃ and Its Related Compounds. <i>Journal of the Physical Society of Japan</i> , 1979 , 46, 432-439	1.5	11
128	Piezoelectric ceramics of the PbTiO ₃ -La(Me ₂ /3Nb _{1/3})O ₃ (Me: Mg, Zn) solid solution system. <i>Ferroelectrics</i> , 1981 , 37, 587-590	0.6	11
127	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
126	Low temperature co-fired multilayer piezoelectric transformers for high power applications. <i>Materials and Design</i> , 2017 , 132, 512-517	8.1	10
125	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
124	Fractal cluster modeling of the fatigue behavior of lead zirconate titanate. <i>Applied Physics Letters</i> , 2002 , 80, 1625-1627	3.4	10
123	Changes in the Crystal Structure of RF-Magnetron Sputtered BaTiO ₃ Thin Films. <i>Journal of the Ceramic Society of Japan</i> , 1992 , 100, 1091-1093		10
122	Piezoelectricity in the Field-Induced Ferroelectric Phase of Lead Zirconate-Based Antiferroelectrics. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 795-799	3.8	10
121	Observation of the Domain Motion in Ferroelectric Single Crystals with a Diffuse Phase Transition. <i>Journal of the Ceramic Society of Japan</i> , 1990 , 98, 840-845		10
120	Photostriction in PLZT Ceramics. <i>Journal of the Ceramic Association Japan</i> , 1987 , 95, 545-550		10
119	Pulse Driving Method of Piezoelectric Actuators 1986 ,		10
118	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
117	The development of piezoelectric materials and the new perspective 2010 , 1-85		9
116	Delta-Shaped Piezoelectric Ultrasonic Motor for Two-Dimensional Positioning. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 313-318	1.4	9
115	Photostrictive actuators. <i>Ferroelectrics</i> , 2001 , 264, 303-308	0.6	9
114	Effect of Ceramic Processing Methods on Photostrictive Ceramics. <i>Materials Technology</i> , 1999 , 6, 57-69		9

113	Mechanical Dampers Using Piezoelectric Composites. <i>Journal of the Ceramic Society of Japan</i> , 1991 , 99, 1135-1137		9
112	Piezoelectric Anisotropy and Polarization Sublattice Coupling in Perovskite Crystals. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1131-1134	3.8	9
111	Monomorph characteristics in Pb(Zr,Ti)O ₃ based ceramics. <i>Ferroelectrics</i> , 1989 , 95, 161-164	0.6	9
110	Monomorph Characteristics of Semiconductive Piezoceramics. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, 201	1.4	9
109	Anomalous Temperature Dependence of Electrostrictive Coefficients in K(Ta _{0.55} Nb _{0.45})O ₃ . <i>Journal of the Physical Society of Japan</i> , 1982 , 51, 3242-3244	1.5	9
108	Phase transition in the Pb(Fe _{2/3} U _{1/3})O ₃ -PbZrO ₃ system. <i>Ferroelectrics</i> , 1977 , 15, 69-71	0.6	9
107	Improvement of electromechanical coupling coefficient in shear-mode of piezoelectric ceramics. <i>Ceramics International</i> , 2019 , 45, 1496-1502	5.1	9
106	Introduction to piezoelectric actuators: research misconceptions and rectifications. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SG0803	1.4	8
105	High-Power Piezoelectrics and Loss Mechanisms 2017 , 647-754		8
104	Piezoelectric ceramics for transducers 2012 , 70-116		8
103	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
102	Investigation of Elastic Nonlinearities in Pb(Zn _{1/3} Nb _{2/3})O ₃ 0.08PbTiO ₃ and Pb(Mg _{1/3} Nb _{2/3})O ₃ 0.08PbTiO ₃ Single Crystals. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 6487-6495	1.4	8
101	Acoustic Emission in ceramic actuators. <i>Ferroelectrics</i> , 1988 , 87, 295-302	0.6	8
100	Photostrictive actuators - new perspective -. <i>Ferroelectrics</i> , 2001 , 264, 303-308	0.6	8
99	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
98	Improvement of the standard characterization method on k ₃₃ mode piezoelectric specimens. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112124	3.9	7
97	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
96	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

95	Shape Memory Unimorph Actuators Using Lead Zirconate-Based Antiferroelectrics. <i>Journal of the Ceramic Society of Japan</i> , 1990 , 98, 905-908		7
94	Piezoelectric Motors and Transformers. <i>Springer Series in Materials Science</i> , 2008 , 257-277	0.9	7
93	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
92	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
91	Switching Current Measurements in Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Relaxor Ferroelectric Single Crystals 2001 , 6, 109-114		6
90	Nanocomposite PLZT Ceramic Materials in Comparison with Other Processing Technique for Photostrictive Application.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, 493-499		6
89	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
88	Polarization orientation dependence of piezoelectric losses in soft lead Zirconate-Titanate ceramics. <i>Journal of Electroceramics</i> , 2018 , 40, 16-22	1.5	5
87	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
86	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
85	Motional characteristics of thin piezoelectric rotary motor using cross shaped stator. <i>Journal of Electroceramics</i> , 2009 , 23, 317-321	1.5	5
84	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
83	Development Of High Power Piezoelectrics With Enhanced Vibrational Velocity. <i>Materials Technology</i> , 2004 , 19, 90-98	2.1	5
82	Dynamical domain observation in relaxor ferroelectrics		5
81	X-ray structural determinations on Sr and La doped PZT. <i>Ferroelectrics, Letters Section</i> , 1987 , 7, 121-129	0.5	5
80	Dielectric relaxation studies in some Polymer-PZT composites. <i>Ferroelectrics, Letters Section</i> , 1987 , 7, 55-59	0.5	5
79	Mössbauer Study of FeMo ₂ S ₄ . <i>Journal of the Physical Society of Japan</i> , 1978 , 44, 1739-1740	1.5	5
78	Piezoelectric energy harvesting systems with metal oxides 2018 , 91-126		5

77	Analytical modeling of k33 mode partial electrode configuration for loss characterization. <i>Journal of Applied Physics</i> , 2020 , 127, 204102	2.5	4
76	Piezoelectric Composite Materials 2017 , 353-382		4
75	Characterization of Magnetostrictive Losses Using Complex Parameters. <i>Advanced Materials Research</i> , 2012 , 490-495, 985-989	0.5	4
74	Applications of Lead-Free Piezoelectrics 2012 , 511-528		4
73	Piezoelectric Transformers For A High Power Module. <i>Materials Technology</i> , 2004 , 19, 79-83	2.1	4
72	Grain size dependence of electro-optic effect in PLZT transparent ceramics. <i>Ferroelectrics</i> , 1989 , 94, 87-92	6	4
71	. <i>IEEE Access</i> , 2020 , 8, 181848-181854	3.5	4
70	Photostrictive Actuators Based on Piezoelectrics 2017 , 755-785		3
69	Loss Factor Characterization Methodology for Piezoelectric Ceramics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 092027	0.4	3
68	High power piezoelectric materials 2010 , 561-598		3
67	Piezoelectric composite materials 2010 , 318-346		3
66	Manufacturing methods for piezoelectric ceramic materials 2010 , 349-386		3
65	Meso-Scale Piezoelectric Gripper with High Dexterity. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 044501	1	3
64	Passive Damping Performance of an Adaptive Carbon-Fiber Reinforced Plastics/Lead Zirconate Titanate Beam. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 6110-6113	1.4	3
63	Hybrid electrooptic and piezoelectric laser beam steering in two dimensions. <i>Journal of Lightwave Technology</i> , 2005 , 23, 2772-2777	4	3
62	. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004 , 51, 227-237	3.2	3
61	4.1 Piezoelectric Ceramics 2003 , 107-159		3
60	Design and driving characteristics of ultrasonic linear motor. <i>Ferroelectrics</i> , 2001 , 263, 113-118	0.6	3

59	Compact ultrasonic rotary motors. <i>Ferroelectrics</i> , 2001 , 257, 3-12	0.6	3
58	Piezoelectric Property Enhancement in Polycrystalline Lead Zirconate Titanate by Changing Cutting Angle.. <i>Journal of the Ceramic Society of Japan</i> , 1999 , 107, 190-191		3
57	Ultrasonic Linear Motors Using Piezoelectric Actuators. <i>Journal of the Ceramic Society of Japan</i> , 1988 , 96, 1131-1136		3
56	Bistable optical device with a PMN-based ceramic electrostrictor. <i>Ferroelectrics</i> , 1985 , 63, 209-216	0.6	3
55	Loss mechanisms and high power piezoelectrics 2006 , 217-228		3
54	Thermal diffusivity measurements using insulating and isothermal boundary conditions. <i>Review of Scientific Instruments</i> , 2014 , 85, 015117	1.7	2
53	Manufacturing Methods for Piezoelectric Ceramic Materials 2017 , 385-421		2
52	Single Source Hybrid Drive for Multi-Functional Ultrasonic Motor. <i>Integrated Ferroelectrics</i> , 2014 , 158, 131-145	0.8	2
51	Photostrictive actuators using piezoelectric materials 2010 , 599-627		2
50	Finite element modeling and optimization of tube-shaped ultrasonic motors 2003 ,		2
49	Electrostrictive P(VDF-TrFE) copolymer-based high-performance micromachined unimorph actuators 2001 ,		2
48	Humidity sensitive actuator. <i>Ferroelectrics</i> , 1989 , 93, 205-210	0.6	2
47	New Monolithic Actuators, Monomorphs Using Semiconductive Ferroelectrics. <i>Journal of the Ceramic Association Japan</i> , 1987 , 95, 722-725		2
46	Photodriven Relay Using PLZT Ceramics 1986 ,		2
45	Entrepreneurship for Engineers		2
44	Thermal Conductivities of PZT Piezoelectric Ceramics under Different Electrical Boundary Conditions 2020 , 3, 10		2
43	Piezoelectric Energy Harvesting: A Systematic Review of Reviews. <i>Actuators</i> , 2021 , 10, 312	2.4	2
42	Electrostrictive effect in perovskites and its transducer applications 1981 , 16, 569		2

41	3.24 Piezoelectro Composites 2018 , 613-624		2
40	7.18 Smart Composite Materials Systems 2018 , 358-363		2
39	Electrothermal Phenomena in Ferroelectrics. <i>Actuators</i> , 2020 , 9, 93	2.4	1
38	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
37	Manufacturing Technologies for Piezoelectric Transducers 2017 , 615-644		1
36	Multilayer technologies for piezo-ceramic materials 2010 , 387-411		1
35	Relaxor ferroelectric-based ceramics 2010 , 111-129		1
34	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
33	Loss Mechanisms in Piezoelectrics. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 604, 25		1
32	Dielectric Properties of Highly Oriented Lead Zirconium Titanate Thin Films Prepared by Reactive RF-Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 604, 3		1
31	Electro-hydraulic servovalve using a pmn multimorph. <i>Ferroelectrics</i> , 1986 , 68, 257-264	0.6	1
30	Dielectric and piezoelectric studies of La doped PZT polymer composites. <i>Ferroelectrics, Letters Section</i> , 1987 , 7, 89-95	0.5	1
29	Bulk photovoltaic effect in the $PbTiO_3$ - $La(Zn\ Nb)\ O_3$ solid solution ceramics. <i>Ferroelectrics</i> , 1982 , 44, 341-347	0.6	1
28	Photostrictive Microactuators 2012 , 153-175		1
27	High power piezoelectric characterization system (HiPoCS) <i>Ferroelectrics</i> , 2020 , 569, 21-49	0.6	1
26	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
25	Design Optimization of a Dual Function Piezoelectric Actuator. <i>Applied Mechanics and Materials</i> , 2012 , 229-231, 795-798	0.3	0
24	Investigation on modified lead barium niobate to optimize the piezoelectric properties. <i>Ferroelectrics, Letters Section</i> , 2000 , 27, 7-10	0.5	0

- 23 Speakers Utilizing Semiconductive Piezoelectric Monomorph Devices. *Journal of the Ceramic Society of Japan*, **1992**, 100, 1221-1224 0
- 22 Photomechanical Effects in Piezoelectric Ceramics **2017**, 275-301
- 21 7.21 Piezoelectric Composite Sensors **2018**, 408-419
- 20 Loss integration in ATILA software **2013**, 45-65
- 19 Overview of the ATILA finite element method (FEM) software code **2013**, 3-25e
- 18 Manufacturing technologies for piezoelectric transducers **2010**, 539-557
- 17 Piezoelectric Pump Using a Cymbal Transducer. *Japanese Journal of Applied Physics*, **2010**, 49, 095201 1.4
- 16 Derivation of Magnetostrictive Losses from Admittance Spectra. *Advanced Materials Research*, **2012**, 490-495, 922-926 0.5
- 15 Loss mechanisms and high-power piezoelectric components **2008**, 475-502
- 14 Novel High Power Piezoelectrics for Transformers and Actuators. *Materials Research Society Symposia Proceedings*, **2003**, 785, 161
- 13 Application of the genetic optimizaton method to the design of ultrasonic motors **2002**, 4693, 547
- 12 Composite piezo wire hydrophone. *Ferroelectrics, Letters Section*, **1988**, 9, 103-106 0.5
- 11 Longitudinal piezoelectric strain measurements of poly(vinylidene fluoride) films. *Journal of Polymer Science, Polymer Physics Edition*, **1983**, 21, 765-771
- 10 Fundamentals of Piezoelectrics **2022**, 1-21
- 9 High Power Piezoelectric Transformers - their Applications to Smart Actuator Systems. *Ceramic Transactions*, 383-395 0.1
- 8 Piezoelectric Ultrasonic Motors Using Bulk PZT and Utilizing Two Orthogonal Bending Modes of a Hollow Cylinder (Part 2). *Ceramic Transactions*, 405-412 0.1
- 7 Designing with Piezoelectric Actuators. *Ceramic Transactions*, 507-531 0.1
- 6 High Power Piezoelectrics of $(1-x)\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Single Crystals. *Ceramic Transactions*, 223-231 0.1

- 5 Depolarization field effect on elasticity of unpoled piezoelectric ceramics. *Applied Materials Today*, **2021**, 23, 101020 6.6
- 4 Determination of anisotropic intensive piezoelectric loss in polycrystalline ceramics. *Ceramics International*, **2021**, 47, 16309-16315 5.1
- 3 *Ferroelectrics* **2019**, 1-27
- 2 *Magnetoelectric composite materials* **2021**, 351-390
- 1 *Piezoelectric Devices for Sustainability Technologies* **2022**,