

Kenji Uchino

List of Publications by Year in descending order

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310
papers

18,725
citations

23500

58
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18075

120
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330
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330
docs citations

330
times ranked

7674
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric and Piezoelectric Properties of 0.91Pb(Zn _{1/3} Nb _{2/3})O ₃ -0.09PbTiO ₃ Single Crystals. Japanese Journal of Applied Physics, 1982, 21, 1298-1302.	0.8	989
2	Dependence of the Crystal Structure on Particle Size in Barium Titanate. Journal of the American Ceramic Society, 1989, 72, 1555-1558.	1.9	937
3	Critical exponents of the dielectric constants in diffused-phase-transition crystals. Ferroelectrics, 1982, 44, 55-61.	0.3	872
4	Critical exponents of the dielectric constants in diffused-phase-transition crystals. Ferroelectrics, Letters Section, 1982, 44, 55-61.	0.4	711
5	Magnetolectric Effect in Composites of Magnetostrictive and Piezoelectric Materials. , 2002, 8, 107-119.		628
6	Phase transitions in the Pb (Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ system. Ferroelectrics, 1981, 37, 579-582.	0.3	612
7	Piezoelectric Actuators and Ultrasonic Motors. , 1996, , .		602
8	Magnetolectric Properties in Piezoelectric and Magnetostrictive Laminate Composites. Japanese Journal of Applied Physics, 2001, 40, 4948-4951.	0.8	596
9	Piezoelectric ultrasonic motors: overview. Smart Materials and Structures, 1998, 7, 273-285.	1.8	450
10	Crystal orientation dependence of piezoelectric properties of lead zirconate titanate near the morphotropic phase boundary. Applied Physics Letters, 1998, 72, 2421-2423.	1.5	411
11	Electrostrictive effect in lead magnesium niobate single crystals. Journal of Applied Physics, 1980, 51, 1142-1145.	1.1	338
12	Large electrostrictive effects in relaxor ferroelectrics. Ferroelectrics, 1980, 23, 187-191.	0.3	315
13	Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic Environment. Japanese Journal of Applied Physics, 2004, 43, 6178-6183.	0.8	308
14	Title is missing!. , 2001, 7, 17-24.		300
15	Effect of the Magnetostrictive Layer on Magnetolectric Properties in Lead Zirconate Titanate/Terfenol-D Laminate Composites. Journal of the American Ceramic Society, 2001, 84, 2905-2908.	1.9	265
16	Loss mechanisms in piezoelectrics: how to measure different losses separately. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 307-321.	1.7	248
17	Electrostrictive effect in perovskites and its transducer applications. Journal of Materials Science, 1981, 16, 569-578.	1.7	237
18	Microstructure and piezoelectric properties of 0.95(Na _{0.5} K _{0.5})NbO ₃ -0.05BaTiO ₃ ceramics. Applied Physics Letters, 2006, 89, 062906.	1.5	230

#	ARTICLE	IF	CITATIONS
19	Dynamic Observation of Crack Propagation in Piezoelectric Multilayer Actuators. Journal of the American Ceramic Society, 1993, 76, 1615-1617.	1.9	217
20	Materials issues in design and performance of piezoelectric actuators: an overview. Acta Materialia, 1998, 46, 3745-3753.	3.8	213
21	Composite piezoelectric transducer with truncated conical endcaps "cymbal". IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1997, 44, 597-605.	1.7	210
22	Metal-Ceramic Composite Actuators. Journal of the American Ceramic Society, 1992, 75, 996-998.	1.9	207
23	Electrostrictive effect in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -type materials. Ferroelectrics, 1982, 41, 117-132.	0.3	198
24	Piezoelectric Energy Harvesting under High Pre-Stressed Cyclic Vibrations. Journal of Electroceramics, 2005, 15, 27-34.	0.8	173
25	Crystal Orientation Dependence of Piezoelectric Properties in Lead Zirconate Titanate: Theoretical Expectation for Thin Films. Japanese Journal of Applied Physics, 1997, 36, 5580-5587.	0.8	167
26	Heat Generation in Multilayer Piezoelectric Actuators. Journal of the American Ceramic Society, 1996, 79, 3193-3198.	1.9	155
27	Diffuse phase transition in lead zinc niobate. Ferroelectrics, 1978, 22, 863-867.	0.3	153
28	Consideration of Impedance Matching Techniques for Efficient Piezoelectric Energy Harvesting. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1851-1859.	1.7	152
29	Photostrictive actuators. Mechatronics, 2000, 10, 467-487.	2.0	146
30	Change of the weak-field properties of $\text{Pb}(\text{ZrTi})\text{O}_3$ piezoceramics with compressive uniaxial stresses and its links to the effect of dopants on the stability of the polarizations in the materials. Journal of Materials Research, 1997, 12, 226-234.	1.2	144
31	Piezoelectric actuators 2006. Journal of Electroceramics, 2008, 20, 301-311.	0.8	144
32	A piezoelectric motor using two orthogonal bending modes of a hollow cylinder. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 495-500.	1.7	140
33	Ferroelectric Devices. , 0, , .		140
34	The Role of Processing Variables in the Flux Growth of Lead Zinc Niobate-Lead Titanate Relaxor Ferroelectric Single Crystals. Japanese Journal of Applied Physics, 1996, 35, 3984-3990.	0.8	133
35	Piezoelectric ultrasonic micromotor with 1.5 mm diameter. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 361-367.	1.7	122
36	Dielectric spectroscopy of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. Journal of Applied Physics, 2001, 90, 3504-3508.	1.1	115

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37	Loss mechanisms and high power piezoelectrics. Journal of Materials Science, 2006, 41, 217-228.	1.7	114
38	A 1.6-mm, metal tube ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 782-786.	1.7	111
39	Ceramic Actuators: Principles and Applications. MRS Bulletin, 1993, 18, 42-48.	1.7	109
40	Micro Piezoelectric Ultrasonic Motors. Journal of Electroceramics, 2004, 13, 393-401.	0.8	109
41	Electrostriction in PZT-family antiferroelectrics. Ferroelectrics, 1983, 50, 191-196.	0.3	103
42	Microstructure and Piezoelectric Properties of $(1-x)(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3-x\text{LiNbO}_3$ Ceramics. Journal of the American Ceramic Society, 2007, 90, 1812-1816.	1.9	101
43	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. Japanese Journal of Applied Physics, 2005, 44, L1361-L1364.	0.8	95
44	LOSS DETERMINATION METHODOLOGY FOR A PIEZOELECTRIC CERAMIC: NEW PHENOMENOLOGICAL THEORY AND EXPERIMENTAL PROPOSALS. Journal of Advanced Dielectrics, 2011, 01, 17-31.	1.5	95
45	Recent applications of PMN-based electrostrictors. Ferroelectrics, 1983, 50, 197-202.	0.3	92
46	Effect of ZnO and CuO on the Sintering Temperature and Piezoelectric Properties of a Hard Piezoelectric Ceramic. Journal of the American Ceramic Society, 2006, 89, 921-925.	1.9	92
47	High Power Characterization of Piezoelectric Materials. , 1998, 2, 33-40.		87
48	Influence of sample thickness on the performance of photostrictive ceramics. Journal of Applied Physics, 1998, 84, 1508-1512.	1.1	87
49	Modeling of Piezoelectric Energy Harvesting Using Cymbal Transducers. Japanese Journal of Applied Physics, 2006, 45, 5836-5840.	0.8	86
50	Glory of piezoelectric perovskites. Science and Technology of Advanced Materials, 2015, 16, 046001.	2.8	86
51	Piezoelectric Energy Harvesting Systems—Essentials to Successful Developments. Energy Technology, 2018, 6, 829-848.	1.8	81
52	Advanced piezoelectric materials. , 2010, , .		80
53	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. Japanese Journal of Applied Physics, 2001, 40, 687-693.	0.8	75
54	High-power resonant measurements of piezoelectric materials: Importance of elastic nonlinearities. Journal of Applied Physics, 2001, 90, 1469-1479.	1.1	73

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55	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.	1.1	72
56	Piezoelectric and Electrostrictive Actuators. , 1986, , .		71
57	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.	0.8	70
58	Photostrictive Actuator Using PLZT Ceramics. <i>Japanese Journal of Applied Physics</i> , 1985, 24, 139.	0.8	69
59	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.	1.9	66
60	Photostrictive effect in (Pb, La) (Zr, Ti)O ₃ . <i>Ferroelectrics</i> , 1985, 64, 199-208.	0.3	65
61	Unipoled Disk-type Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 1446-1450.	0.8	63
62	High Power Characteristics of Lead-Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3383-3386.	1.9	63
63	Mechanical Damper Using Piezoelectric Ceramics. <i>Journal of the Ceramic Society of Japan</i> , 1988, 96, 863-867.	1.3	61
64	Stability of PZT Piezoelectric Ceramics under Vibration Level Change. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2429-2432.	1.9	61
65	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.	0.7	60
66	Mn-Modified Pb(Mg _{1/3} Nb _{2/3})O ₃ â€“PbTiO ₃ Ceramics: Improved Mechanical Quality Factors for High-Power Transducer Applications. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4843-4852.	0.8	60
67	Photostrictive effect in lanthanum-modified lead zirconate titanate ceramics near the morphotropic phase boundary. <i>Materials Chemistry and Physics</i> , 1999, 61, 36-41.	2.0	59
68	Dielectric and piezoelectric properties of the Mn-substituted Pb(Zn _{1/3} Nb _{2/3})O ₃ â€“PbTiO ₃ single crystal. <i>Journal of Applied Physics</i> , 2002, 91, 4515-4520.	1.1	59
69	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.	0.8	58
70	Accurate determination of complex materials coefficients of piezoelectric resonators. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003, 50, 312-320.	1.7	58
71	Electrostrictive effects in antiferroelectric perovskites. <i>Journal of Applied Physics</i> , 1981, 52, 1455-1459.	1.1	57
72	Monomorph Actuators-Using Semiconductive Ferroelectrics. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1046-1049.	0.8	57

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73	A class V flextensional transducer: the cymbal. <i>Ultrasonics</i> , 1999, 37, 387-393.	2.1	56
74	Piezoelectric micromotor using a metal-ceramic composite structure. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000, 47, 836-843.	1.7	54
75	Effects of rare earth metal substituents on the piezoelectric and polarization properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3$ - $\text{Pb}(\text{Sb,Mn})\text{O}_3$ ceramics. <i>Journal of Applied Physics</i> , 2002, 92, 2094-2099.	1.1	54
76	Structural variation and piezoelectric properties of $0.95(\text{Na}_0.5\text{K}_0.5)\text{NbO}_3$ - 0.05BaTiO_3 ceramics. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 255-260.	2.0	51
77	High power characteristics at antiresonance frequency of piezoelectric transducers. <i>Ultrasonics</i> , 1996, 34, 213-217.	2.1	49
78	Compact piezoelectric stacked actuators for high power applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000, 47, 819-825.	1.7	49
79	High Power Performance of Manganese-Doped BNT -Based Pb -Free Piezoelectric Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3192-3196.	1.9	49
80	Derivation of Piezoelectric Losses from Admittance Spectra. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 041401.	0.8	48
81	Multilayered Unipoled Piezoelectric Transformers. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 3503-3510.	0.8	47
82	Energy Flow Analysis in Piezoelectric Energy Harvesting Systems. <i>Ferroelectrics</i> , 2010, 400, 305-320.	0.3	47
83	Ultrasonic linear motors using a multilayered piezoelectric actuator. <i>Ferroelectrics</i> , 1988, 87, 331-334.	0.3	45
84	Effects of CuO and ZnO Additives on Sintering Temperature and Piezoelectric Properties of $0.41\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.36PbTiO_3 - 0.23PbZrO_3 Ceramics. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 205-210.	0.8	45
85	Fe-substituted $0.92\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.08PbTiO_3 single crystals: A hard piezocrystal. <i>Applied Physics Letters</i> , 2002, 81, 2430-2432.	1.5	44
86	Piezoelectric Ring-Morph Actuators for Valve Application. , 2002, 8, 155-161.		44
87	New applications of photostrictive ferroics. <i>Materials Research Innovations</i> , 1997, 1, 163-168.	1.0	43
88	Characteristics of the First Longitudinal-Fourth Bending Mode Linear Ultrasonic Motors. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 7139-7143.	0.8	43
89	Importance of structural irregularity on dielectric loss in $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $x\text{PbTiO}_3$ crystals. <i>Applied Physics Letters</i> , 2002, 80, 4217-4219.	1.5	43
90	High-Voltage Photovoltaic Effect in PbTiO_3 -Based Ceramics. <i>Japanese Journal of Applied Physics</i> , 1982, 21, 1671-1674.	0.8	42

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91	Cymbal array: a broad band sound projector. Ultrasonics, 2000, 37, 523-529.	2.1	42
92	Mn dopant on the r -domain stabilization effect of aged BaTiO ₃ and PbTiO ₃ -based piezoelectrics. Applied Physics Letters, 2012, 101, .	1.5	41
93	Electrostrictive effects in non-polar perovskites. Phase Transitions, 1980, 1, 333-341.	0.6	40
94	Digital Displacement Transducer Using Antiferroelectrics. Japanese Journal of Applied Physics, 1985, 24, 460.	0.8	40
95	Electrostriction and Its Interrelation with Other Anharmonic Properties of Materials. Japanese Journal of Applied Physics, 1980, 19, L171-L173.	0.8	39
96	Effect of Crystal Orientation on Dielectric Properties of Lead Zirconium Titanate Thin Films Prepared by Reactive RF-Sputtering. Japanese Journal of Applied Physics, 2001, 40, 713-717.	0.8	39
97	High Power Piezoelectric Characteristics of BiScO ₃ -PbTiO ₃ -Pb(Mn _{1/3} Nb _{2/3})O ₃ . Japanese Journal of Applied Physics, 2002, 41, 6040-6044.	0.8	39
98	Ultrasonic Motor Applications. , 1997, , 265-312.		39
99	Dielectric and magnetic properties in the solid solution system Pb(Fe _{2/3} W _{1/3})O ₃ -Pb(Co _{1/2} W _{1/2})O ₃ . Ferroelectrics, 1977, 17, 505-510.	0.3	38
100	Crystal orientation dependence of piezoelectric properties of single crystal barium titanate. Materials Letters, 1999, 40, 109-113.	1.3	38
101	The Development of Piezoelectric Materials and the New Perspective. , 2017, , 1-92.		38
102	Relaxor Ferroelectrics. Journal of the Ceramic Society of Japan, 1991, 99, 829-835.	1.3	37
103	Substituent effects on the mechanical quality factor of Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ and Pb(Sc _{1/2} Nb _{1/2})O ₃ -PbTiO ₃ ceramics. Journal of Applied Physics, 2001, 90, 1455-1458.	1.1	37
104	Analysis on a composite cantilever beam coupling a piezoelectric bimorph to an elastic blade. Sensors and Actuators A: Physical, 2001, 89, 215-221.	2.0	37
105	A Piezoelectric Micromotor with a Stator of $l_t=1.6$ mm and $l=4$ mm Using Bulk PZT. Japanese Journal of Applied Physics, 2004, 43, 1429-1433.	0.8	37
106	Recent topics of ceramic actuators how to develop new ceramic devices. Ferroelectrics, 1989, 91, 281-292.	0.3	36
107	Time Dependence of the Mechanical Quality Factor in r -Hard Lead Zirconate Titanate Ceramics: Development of an Internal Dipolar Field and High Power Origin. Japanese Journal of Applied Physics, 2006, 45, 9119-9124.	0.8	36
108	Analytical solutions for the transverse deflection of a piezoelectric circular axisymmetric unimorph actuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 1240-1249.	1.7	36

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109	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.	2.0	36
110	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991, 12, 657-661.	1.1	34
111	Effect of Yb Addition on the Sintering Behavior and High Power Piezoelectric Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Mn,Nb})\text{O}_3$. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 1307-1310.	0.8	34
112	Induction of combinatory characteristics by relaxor modification of $\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3$. <i>Applied Physics Letters</i> , 2003, 83, 5020-5022.	1.5	33
113	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.	0.8	33
114	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.	2.8	33
115	Impurity doping effect on electrostrictive properties of $(\text{Pb,Ba}) (\text{Zr,Ti})\text{O}_{3₃}$. <i>Ferroelectrics</i> , 1989, 93, 373-378.	0.3	32
116	Title is missing!. , 2001, 6, 13-19.		32
117	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.	1.1	32
118	Impurity doping effect on photostriction in PLZT ceramics. <i>Materials Technology</i> , 1994, 1, 129-143.	0.3	30
119	Integration of a piezoelectric transformer and an ultrasonic motor. <i>Ultrasonics</i> , 2003, 41, 83-87.	2.1	30
120	Photostriction of Sol-Gel Processed PLZT Ceramics. , 1997, 1, 105-111.		29
121	A linear ultrasonic motor using the first longitudinal and the fourth bending mode. <i>Smart Materials and Structures</i> , 1997, 6, 619-627.	1.8	28
122	An Ultrasonic Motor Using a Metal-Ceramic Composite Actuator Generating Torsional Displacement. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 5659-5662.	0.8	28
123	High-Tm relaxor ferroelectrics: $0.3\text{BiScO}_3\text{-}0.6\text{PbTiO}_3\text{-}0.1\text{Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Applied Physics Letters</i> , 2003, 82, 251-253.	1.5	28
124	Driving an inductive piezoelectric transducer with class E inverter. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 219-227.	2.0	28
125	Crystal Growth and Piezoelectric Properties of Mn-Substituted $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Single Crystal. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L1044-L1047.	0.8	27
126	Low Temperature Coefficient of Resonance Frequency Composition in the System $\text{Pb}(\text{Zr,Ti})\text{O}_{3₃}\text{-Pb}(\text{Mn}_{_{1/3}}\text{Nb}_{_{2/3}})\text{O}_{3₃}$. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1907-1911.	1.9	27

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127	Antiferroelectric Shape Memory Ceramics. <i>Actuators</i> , 2016, 5, 11.	1.2	27
128	Single-phase driven ultrasonic motor using two orthogonal bending modes of sandwiching piezo-ceramic plates. <i>Review of Scientific Instruments</i> , 2016, 87, 115004.	0.6	26
129	Driving frequency optimization of a piezoelectric transducer and the power supply development. <i>Review of Scientific Instruments</i> , 2016, 87, 105003.	0.6	26
130	Drive Voltage Dependence of Electromechanical Resonance in PLZT Piezoelectric Ceramics. <i>Japanese Journal of Applied Physics</i> , 1989, 28, 47.	0.8	25
131	Title is missing!. , 2001, 7, 197-210.		25
132	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.	1.4	25
133	Domain wall release in hard piezoelectric under continuous large amplitude ac excitation. <i>Journal of Applied Physics</i> , 2007, 101, 114110.	1.1	25
134	Characterization of Mechanical Loss in Piezoelectric Materials Using Temperature and Vibration Measurements. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2810-2814.	1.9	25
135	Photovoltaic Effect in Ferroelectric Ceramics and Its Applications. <i>Japanese Journal of Applied Physics</i> , 1983, 22, 102.	0.8	24
136	Barium titanate-based actuator with ceramic internal electrodes. <i>Ferroelectrics</i> , 1986, 68, 215-223.	0.3	24
137	Mechanical aging behavior of oriented $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 and $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals. <i>Applied Physics Letters</i> , 2001, 79, 2624-2626.	1.5	24
138	Electro-Mechanical Properties of PbZrO_3 - 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.	0.1	23
139	A very high sensitivity AC dilatometer for the direct measurement of piezoelectric and electrostrictive constants. <i>Ferroelectrics</i> , 1980, 27, 35-39.	0.3	22
140	Soft modes in relaxor ferroelectrics. <i>Phase Transitions</i> , 1981, 2, 1-6.	0.6	22
141	Longitudinal-bending mode micromotor using multilayer piezoelectric actuator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2001, 48, 1066-1071.	1.7	22
142	Investigation of the Ferroelectric Orthorhombic Phase in the $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 System. <i>Ferroelectrics</i> , 2002, 274, 121-126.	0.3	22
143	Design of a Circular Piezoelectric Transformer with Crescent-Shaped Input Electrodes. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 509-514.	0.8	22
144	Measuring Methods for High Power Characteristics of Piezoelectric Materials. <i>Materials Research Society Symposia Proceedings</i> , 1994, 360, 15.	0.1	21

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145	The "cymbal" electromechanical actuator. , 0, , .		21
146	Analysis on Loss Anisotropy of Piezoelectrics with \hat{z} mm Crystal Symmetry. Japanese Journal of Applied Physics, 2010, 49, 021503.	0.8	21
147	Piezoelectric actuator renaissance. Phase Transitions, 2015, 88, 342-355.	0.6	21
148	Resonant-type inertial impact motor with rectangular pulse drive. Sensors and Actuators A: Physical, 2016, 248, 29-37.	2.0	21
149	A new equivalent circuit for piezoelectrics with three losses and external loads. Sensors and Actuators A: Physical, 2017, 256, 77-83.	2.0	21
150	Phenomenological Theory of Ferroelectricity in Solid Solution Systems $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3 \text{--} \text{Pb}(\text{M}_{1/2}\text{W}_{1/2})\text{O}_3 (\text{M}=\text{Mn}, \text{Co}, \text{Ni})$. Japanese Journal of Applied Physics, 1979, 18, 1493-1497. ^{0.8}		20
151	Modeling of fatigue behavior in relaxor piezocrystals: Improved characteristics by Mn substitution. Journal of Applied Physics, 2002, 92, 3923-3927.	1.1	20
152	The development of piezoelectric materials and the new perspective. , 2010, , 1-85.		20
153	Thermal Dilatation in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Crystal. Japanese Journal of Applied Physics, 1975, 14, 1881-1884.	0.8	19
154	Photostrictive actuators -new perspective-. Ferroelectrics, 2001, 258, 147-158.	0.3	19
155	Substituent-introduction of Pb polarization characteristics in $\text{Pb}(\text{Bi}_{1/2}\text{O})_3 \text{--} \text{PbTiO}_3$ ferroelectric ceramics. Journal of Applied Physics, 2001, 89, 3928-3933.	1.1	19
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