

PUBLICATIONS OF KENJI UCHINO

A. PEER REVIEWED JOURNALS

1. Abe, M. and K. Uchino, "X-ray Study of the Deficient Perovskite $\text{La}_{2/3}\text{TiO}_3$," Mater. Res. Bull. 9 (2), 147-156 (1974).(Contributing Author)
2. Abe, M., K. Uchino and S. Nomura, "Dilatometer Utilizing a Differential Transformer," Oyo Butsuri 44 (9), 955-958 (1975).(Contributing Author)
3. Nomura, S., M. Abe, F. Kojima and K. Uchino, "Thermal Dilatation in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Crystal," Jpn. J. Appl. Phys. 14 (12), 1881-1884 (1975). (Contributing Author)
4. Uchino, K. and S. Nomura, "Crystallographic and Dielectric Properties in the Solid Solution Systems $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ and $\text{Pb}(\text{MgW})_{1/2}\text{O}_3$ - $\text{Pb}(\text{FeTa})_{1/2}\text{O}_3$," J. Phys. Soc. Jpn. 41 (2), 542-547 (1976).(Principal Author)
5. Uchino, K., F. Kojima and S. Nomura, "Phase Transition in the $\text{Pb}(\text{Fe}_{2/3}\text{U}_{1/3})\text{O}_3$ - PbZrO_3 System," Ferroelectrics 15, 69-71 (1977).(Principal Author)
6. Uchino, K. and S. Nomura, "Dielectric and Magnetic Properties in the Solid Solution System $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3$ - $\text{Pb}(\text{Co}_{1/2}\text{W}_{1/2})\text{O}_3$," Ferroelectrics 17, 505-510 (1978).(Principal Author)
7. Abe, M., K. Kaneta and K. Uchino, "Mossbauer Study of FeMo_2S_4 ," J. Phys. Soc. Jpn. 44 (5), 1739-1740 (1978).(Contributing Author)
8. Hahn, Lu, K. Uchino and S. Nomura, "On the Phenomenon of Morphotropic Tetragonal-Rhombohedral Phase Boundary in the Ferroelectric Ceramics," Jpn. J. Appl. Phys. 17 (4), 637-641 (1978).(Contributing Author)
9. Uchino, K. and S. Nomura, "Crystallographic and Dielectric Properties of $\text{Pb}(\text{Mg}_{1/2}\text{W}_{1/2})\text{O}_3$ - BiFeO_3 Solid Solutions," Jpn. J. Appl. Phys. 17 (8), 1351-1354 (1978).(Principal Author)
10. Uchino, K and S. Nomura, "Crystal Growth, and Magnetic and Mossbauer Studies of $\text{Sr}(\text{Fe}_{0.766}\text{W}_{0.234})\text{O}_3$ and Its Related Compounds," J. Phys. Soc. Jpn. 46 (2), 432-439 (1979).(Principal Author)
11. Uchino, K. and S. Nomura, "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)," Jpn. J. Appl. Phys. 18 (8), 1493-1497 (1979).(Principal Author)

12. Kuwata, J., K. Uchino and S. Nomura, "Diffuse Transition in Lead Zinc Niobate," *Ferroelectrics* 22, 863-867 (1979).(First Author Supervised by Candidate)
13. Uchino, K., S. Nomura, L.E. Cross and R.E. Newnham, "Electrostriction in Perovskite Crystals and Its Applications to Transducers," *J. Phys. Soc. Jpn.* 49 (Suppl. B), 45-48 (1980).(Principal Author)
14. Uchino, K., S. Nomura and R.E. Newnham, "New Electrostrictive Materials (1), (2)," *Electronic Ceramics* 11 (Summer) 57-61; (Fall) 67-71 (1980).(Principal Author)
15. Uchino, K. and L.E. Cross, "A Very High Sensitivity AC Dilatometer for the Direct Measurement of Piezoelectric and Electrostrictive Constants," *Ferroelectrics* 27 (1), 35-39 (1980).(Principal Author)
16. Cross, L.E., S.J. Jang, R.E. Newnham, S. Nomura and K. Uchino, "Large Electrostrictive Effects in Relaxor Ferroelectrics," *Ferroelectrics* 23 (3), 187-192 (1980).(Equal Contributions by Authors)
17. Jang, S.J., K. Uchino, S. Nomura and L.E. Cross, "Electrostrictive Behavior of Lead Magnesium Niobate Based Ceramic Dielectrics," *Ferroelectrics* 27 (1), 31-34 (1980).(Contributing Author)
18. Nomura, S., J. Kuwata, K. Uchino, S.J. Jang, L.E. Cross and R.E. Newnham, "Electrostriction in the Solid Solution System $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/2}\text{W}_{1/2})\text{O}_3$," *Phys. Stat. Sol. (a)* 57, 317 (1980).(Contributing Author)
19. Uchino, K. S. Nomura, L.E. Cross, S.J. Jang and R.E. Newnham, "Electrostrictive Effect in Lead Magnesium Niobate Single Crystals," *J. Appl. Phys.* 51 (2), 1142-1145 (1980).(Principal Author)
20. Uchino, K. and L.E. Cross, "Electrostriction and its Interrelation with Other Anharmonic Properties of Materials," *Jpn. J. Appl. Phys.* 19 (4), L171-L173 (1980).(Principal Author)
21. Uchino, K., L.E. Cross and S. Nomura, "Inverse Hysteresis of Field Induced Elastic Deformation in the Solid Solution 90 mol% $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 10 mol% PbTiO_3 ," *J. Mater. Sci.* 15, 2643-2646 (1980).(Principal Author)
22. Uchino, K., L.E. Cross, R.E. Newnham and S. Nomura, "Electrostrictive Effects in Non-Polar Perovskites," *Phase Transitions* 1 (4), 333-342 (1980).(Principal Author)
23. Uchino, K., L.E. Cross and R.E. Newnham, "Electrostrictive Effects in Paraelectric-Ferroelectric-Antiferroelectric Phase Transitions," *Jpn. J. Appl. Phys.* 19 (7), L425-L428 (1980).(Principal Author)

24. Uchino, K. S. Nomura, A. Amin, Z.P. Chang, L.E. Cross and R.E. Newnham, "Elastic Constants and Thermal Expansion of Cation Disordered Perovskites," Jpn. J. Appl. Phys. 19 (7), L398-L400 (1980).(Principal Author)
25. Kuwata, J., K. Uchino and S. Nomura, "Electrostrictive Coefficients of $\text{Pb}(\text{M}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Ceramics," Jpn. J. Appl. Phys. 19 (11), 2099-2103 (1980). (First Author Supervised by Candidate)
26. Uchino, K. S. Nomura, L.E. Cross, R.E. Newnham and S.J. Jang, "Electrostrictive Effect in Perovskites and Its Transducer Applications," J. Mater. Sci. 16 (3), 569-578 (1981).(Principal Author)
27. Uchino, K. and S. Nomura, "New Electromechanical Materials and Their Applications," Jpn. J. Appl. Phys. 20 (Suppl. 4), 225-228 (1981).(Principal Author)
28. Uchino, K., L.E. Cross, R.E. Newnham and S. Nomura, "Electrostrictive Effects in Antiferroelectric Perovskites," J. Appl. Phys. 52 (3), 1455-1459 (1981). (Principal Author)
29. Uchino, K., S. Nomura, L.E. Cross and R.E. Newnham, "Soft Modes in Relaxor Ferroelectrics," Phase Transitions 2 (1), 1-6 (1981).(Principal Author)
30. Jang, S.J., L.E. Cross, K. Uchino and S. Nomura, "Dielectric and Electrostrictive Properties of Ferroelectric Relaxors on the System $\text{Pb}(\text{M}_{1/3}\text{Nb}_{2/3})\text{O}_3:\text{PbTiO}_3:\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$," J. Amer. Ceram. Soc. 64 (4), 209-212 (1981).(Contributing Author)
31. Nomura, S., K. Kaneta, J. Kuwata, Y. Tsuchiya and K. Uchino, "Dielectric and Electromechanical Properties of $\text{PbTiO}_3 - \text{La}(\text{Zn}_{2/3}\text{Nb}_{1/3})\text{O}_3$ Solid Solution Ceramics," Jpn. J. Appl. Phys. 20 (3), L241-244 (1981).(Contributing Author)
32. Uchino, K., Y. Tsuchiya, S. Nomura, T. Sato, H. Ishikawa and O. Ikeda, "Deformable Mirror Using the PMN Electrostrictor," Appl. Optics 20 (17), 3077-3080 (1981).(Principal Author)
33. Uchino, K., S. Nomura, L.E. Cross, S.J. Jang and R.E. Newnham, "Pressure Gauge Using Relaxor Ferroelectrics," Jpn. J. Appl. Phys. 20 (5), L367-L370 (1981).(Principal Author)
34. Gomi, M., K. Uchino, M. Abe and S. Nomura, "Bistable Optoelectronic Device Using the Electrostrictive Displacement Transducer," Jpn. J. Appl. Phys. 20 (5), L375-L377 (1981).(Equal Contributions by Authors)
35. Tsuchiya, Y., K. Uchino and S. Nomura, "Approximate Formulas for a Low-Q Electromechanical Resonator and Their Applications to Electrostrictive PMN-

- Based Ceramics," Jpn. J. Appl. Phys. 20 (10), 1841-1847 (1981).(First Author Supervised by Candidate)
36. Kuwata, J., M. Onoda, K. Uchino and S. Nomura, "Dielectric Losses in Bi₁₂GeO₂₀ Single Crystals," Jpn. J. Appl. Phys. 20 (8), 1609-1610 (1981).(First Author Supervised by Candidate)
 37. Kuwata, J., K. Uchino and S. Nomura, "Phase Transitions on the Pb(Zn_{1/3}Nb_{2/3})O₃ - PbTiO₃ System," Ferroelectrics 37 (1), 579-582 (1981).(First Author Supervised by Candidate)
 38. Nomura, S., K. Kaneta, K. Kuwata and K. Uchino, "Piezoelectric Ceramics of the Pb TiO₃ - La(Me_{2/3}Nb_{1/3})O (Me: Mg, Zn) Solid Solution System," Ferroelectrics 37 (1), 587-590 (1981).(Contributing Author)
 39. Uchino, K., S. Nomura, L.E. Cross and R.E. Newnham, "Electrostrictive Effects in Potassium Tantalate Niobate," Ferroelectrics 38 (1), 825-828 (1981).(Principal Author)
 40. Nomura, S., K. Kaneta, J. Kuwata and K. Uchino, "Electromechanical Properties of Piezoelectric Ceramics in the PLZT-PZN System," Jpn. J. Appl. Phys. 20 (Suppl. 4), 179-182 (1981).(Contributing Author)
 41. Uchino, K., J. Kuwata, S. Nomura, L.E. Cross and R.E. Newnham, "Interrelation of Electrostriction with Phase Transition Diffuseness-Improvement of the Temperature Characteristics of Electrostriction," Jpn. J. Appl. Phys. 20 (Suppl. 4), 171-174 (1981).(Principal Author)
 42. Sato, T., H. Ishikawa, O. Ikeda, K. Uchino and S. Nomura, "Multilayer PMN Coherent Optical Adaptive Technique," J. Opt. Soc. Amer. 71 (12), 1645 (1981). (Contributing Author)
 43. Nomura, S. and K. Uchino, "Electrostrictive Effect in Pb(Mg_{1/3}Nb_{2/3})O₃ Type Materials," Ferroelectrics 41 (1), 117-132 (1982).(Equal Contributions by Authors)
 44. Nomura, S. and K. Uchino, "Ferroelectric Materials for Microdisplacement Transducers," Solid State Phys. 17 (8), 467-476 (1982).(Equal Contributions by Authors)
 45. Uchino, K., "Electrostrictive Effect in Antiferroelectrics," Solid State Phys. 17 (7), 371-380 (1982).(Principal Author)
 46. Nomura, S. and K. Uchino, "Crystal Structure and Physical Properties of Complex Perovskite Oxides," Solid State Phys. 18 (2), 71-86 (1982).(Equal Contributions by Authors)

47. Uchino, K., "Pressure Gauge Using Electrostrictive Materials," *Sensor Technology* 2 (6), 39-44 (1982). (Principal Author)
48. Uchino, K., S. Nomura and R. E. Newnham "Sensor Applications of PZT - PZT Composites and Their Applications," *Sensor Technology* 2 (7), 81-86 (1982). (Principal Author)
49. Uchino, K., S. Nishida and S. Nomura, "A High-Sensitive AC Interferometric Dilatometer," *Jpn. J. Appl. Phys.* 21 (4), 596-600 (1982).(Principal Author)
50. Gomi, M., Y. Miyazawa, K. Uchino, M. Abe and S. Nomura, "Optical Stabilizer Using the Bistable Optical Device with PMN Electrostrictor," *Appl. Optics* 21 (14), 2616-2619 (1982).(Contributing Author)
51. Uchino, K. and S. Nomura, "Critical Exponents of the Dielectric Constants in Diffused-Phase-Transition Crystals," *Ferroelectrics Lett.* 44 (3), 55-61 (1982). (Principal Author)
52. Nomura, S., K. Kaneta, J. Kuwata and K. Uchino, "Phase Transition in the $\text{PbTiO}_3 - \text{A}(\text{B}_{2/3}\text{Nb}_{1/3})\text{O}_3$ (A: La, Bi; B: Zn, Mg) Solid Solutions," *Mater. Res. Bull.* 17 (12), 1471-1475 (1982).(Contributing Author)
53. Abe, K., K. Uchino and S. Nomura, "The Electrostrictive Unimorph for Displacement Control," *Jpn. J. Appl. Phys.* 21 (7), L408-L410 (1982).(First Author Supervised by Candidate)
54. Kuwata, J., K. Uchino and S. Nomura, "Dielectric and Piezoelectric Properties of $0.91\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3 - 0.09\text{PbTiO}_3$ Single Crystals," *Jpn. J. Appl. Phys.* 21 (9), 1298-1302 (1982).(First Author Supervised by Candidate)
55. Uchino, K., S. Nomura and L.E. Cross, "Anomalous Temperature Dependence of Electrostrictive Coefficients in $\text{K}(\text{Ta}, \text{Nb})\text{O}_3$," *J. Phys. Soc. Jpn.* 51 (10), 3242-3244 (1982).(Principal Author)
56. Sato, T., H. Ishikawa, O. Ikeda, S. Nomura and K. Uchino, "Deformable 2-D Mirror Using Multilayered Electrostrictors," *Appl. Optics* 21 (20), 3669-3672 (1982).(Equal Contributions by Authors)
57. Uchino, K. and S. Nomura, "Electrostrictive Phenomena and Their Applications," *Oyo Butsuri* 52 (7), 575-583 (1983).(Principal Author)
58. Uchino, K. and L.E. Cross, "Longitudinal Piezoelectric Strain Measurements of Polyvinylidene Fluoride Films," *J. Polymer Sci.* 21 (5), 765-771 (1983).(Principal Author)

59. Uchino, K., Y. Miyazawa and S. Nomura, "High-Voltage Photovoltaic Effect in PbTiO₃-Based Ceramics," Jpn. J. Appl. Phys. 21 (12), 1671-1674 (1982).
(Principal Author)
60. Miyazawa, Y., K. Uchino and S. Nomura, "Bulk Photovoltaic Effect in the PbTiO₃ - La(Zn_{2/3}Nb_{1/3})O₃ Solid Solution Ceramics," Ferroelectrics Lett. 44 (12), 341-347 (1983).(First Author Supervised by Candidate)
61. Aizawa, M., K. Uchino and S. Nomura, "Micro-Angle Adjusting Device Using PMN Electrostrictors," Jpn. J. Appl. Phys. 22 (12), 1925-1927 (1983).(First Author Supervised by Candidate)
62. Uchino, K. and S. Nomura, "Electrostriction in PZT-Family Antiferroelectrics," Ferroelectrics 50 (1), 191-196 (1983).(Principal Author)
63. Nomura, S. and K. Uchino, "Recent Applications of PMN-Based Electrostrictors," Ferroelectrics 50 (1), 197-202 (1983).(Equal Contributions by Authors)
64. Uchino, K., Y. Miyazawa and S. Nomura, " Photovoltaic Effect in Ferroelectric Ceramics and Its Applications," Jpn. J. Appl. Phys. 22 (Suppl. 2), 102-105 (1983).(Principal Author)
65. Uchino, K., "Photovoltaic Effect in Piezoelectric Ceramics and Its Applications," Electronic Ceramics, Special Issue, 49-57 (1984).(principal Author)
66. Uchino, K., "Actuators Utilizing Electrostriction," Ceramics 19 (11), 933-939 (1984).(Principal Author)
67. Uchino, K., "Electrostrictive Coefficient of a Rocksalt-type Oxide MgO," J. Phys. Soc. Jpn. 53 (4), 1531-1535 (1984).(Principal Author)
68. Uchino, K., S. Nomura, K. Vedam, R.E. Newnham and L.E. Cross, "Pressure Dependence of Refractive Index and dielectric Constant in a Fluoroperovskite, KMgF₃," Phys. Rev. B 29 (12), 6921-6925 (1984).(Principal Author)
69. Uchino, K., "Ferroelectric Shape Memory Ceramics," Oyo Butsuri 54 (6), 591-595 (1985).(Principal Author)
70. Uchino, K., "Shape Memory Ceramics," Sensor Technology, 5 (13), 51-53 (1985).(Principal Author)
71. Nakajima, Y., T. Hayashi, I. Hayashi and K. Uchino, "Electrostrictive Properties of a PMN Stacked Actuator," Jpn. J. Appl. Phys. 24 (2), 235-238 (1985).(First Author Supervised by Candidate)

72. Uchino, K., "Digital Displacement Transducer Using Antiferroelectrics," Jpn. J. Appl. Phys. 24 (Suppl. 24-2), 460-462 (1985).(Principal Author)
73. Uchino, K., M. Tatsumi, I. Hayashi and T. Hayashi, "Grain Size Dependence of Electrostriction in PMN Ceramics," Jpn. J. Appl. Phys. 24 (Suppl. 24-2), 733-735 (1985).(Principal Author)
74. Uchino, K. and M. Aizawa, "Photostrictive Actuator Using PLZT Ceramics," Jpn. J. Appl. Phys. 24 (Suppl. 24-3), 139-141 (1985).(Principal Author)
75. Nomura, Late S., M. Gomi and K. Uchino, "Bistable Optical Device with a PMN-Based Ceramic Electrostrictor," Ferroelectrics 63, 209-216 (1985).(Equal Contributions by Authors)
76. Uchino, K., M. Aizawa and Late S. Nomura, "Photostrictive Effect in (Pb,La)(Zr,Ti)O₃, Ferroelectrics 64, 199-208 (1985).(Principal Author)
77. Uchino, K., "Electrodes Applied for Piezoelectric Actuators," Ceramics 21 (3), 229-236 (1986).(Principal Author)
78. Uchino, K., "New Applications of Piezoelectric Ceramics," J. Chem. Industry No.9, 33-39 (1986).(Principal Author)
79. Uchino, K., "Electrostrictive Actuators: Materials and Applications," Ceramic Bull. 65 (4), 647-652 (1986).(Principal Author)
80. Uchino, K., "How to Develop New Devices," Solid State Phys. 21 (12) 27-38 (1986).(Principal Author)
81. Uchino, K., "Designs and Applications of Piezoelectric Actuators:General Review," Electronics, No. 12, 25-28 (1986).(Principal Author)
82. Uchino, K., "Designs and Applications of Piezoelectric Actuators: Fundamental Knowledge," Electronics, No. 12, 29-33 (1986).(Principal Author)
83. Tatsumi, M., I. Hayashi, T. Hayashi and K. Uchino, "Electrostrictive Properties of PMN Ceramics for Microdisplacement Actuators," J. Precision Eng. 52 (5), 81-86 (1986).(First Author Supervised by Candidate)
84. Hayashi, I., T. Hayashi, K. Kashiwagi, S. Nomura and K. Uchino, "Sintering Process of a Functional Ceramic Cylinder for a High Rigidity Bearing of High-Precision Gear Testers," J. Precision Eng. 52 (5), 61-67 (1986).(Contributing Author)
85. Ohuchi, H., K. Nakano, K. Uchino, S. Nomura and H. Endo, "High Speed Electro-Hydraulic Servovalves Using Electrostrictive PMN Ceramics," J. Oil/Air Pressure 17 (1), 74-80 (1986).(Equal Contributions by Authors)

86. Furuta, K. and K. Uchino, "Electric-Field-Induced Strain in (Pb,La)(Zr,Ti)O₃ Ceramics," *Advanced Ceram. Mater.* 1 (1), 61-63 (1986).(First Author Supervised by Candidate)
87. Abe, K., K. Uchino and the Late Shoichiro Nomura, "Barium Titanate-Based Actuator with Ceramic Internal Electrodes," *Ferroelectrics* 68, 215-223 (1986). (First Author Supervised by Candidate)
88. Ohuchi, H., K. Nakano, H. Endoh and K. Uchino, "Electro-Hydraulic Servovalve Using a PMN Multimorph," *Ferroelectrics* 68, 257-264 (1986).(Equal Contributions by Authors)
89. Uchino, K. and T. Takasu, "Evaluation Method of Piezoelectric Ceramics from a Viewpoint of Grain Size," *Inspec.* 10, 29-33 (1986).(Principal Author)
90. Uchino, K., "Ceramic Actuators: General Review," *Electronic Ceramics*, No.3, 9-15 (1987).(Principal Author)
91. Uchino, K., "Ceramic Actuators," *FC Report* 5 (3) (1987).(Principal Author)
92. Uchino, K., "Photostrictive Effect and Its Applications," *Solid State Phys.* 22 (8), 55-60 (1987).(Principal Author)
93. Uchino, K., "Actuator Application of Piezoelectric/Electrostrictive Ceramics," *J. Precision Eng.* 53 (5), 4-6 (1987).(Principal Author)
94. Varaprasad, A.M. and K. Uchino, "Dielectric Relaxation Studies in Some Polymer-PZT Composites," *Ferroelectrics Lett.* 7, 55-59 (1987).(Contributing Author)
95. Kobayashi, T., S. Sugiyama and K. Uchino, "Dielectric Properties in Solid Solution Systems PbZrO₃ - Pb(M_{1/2}W_{1/2})O₃ (M = Mg, Co)," *Ferroelectrics Lett.* 7, 75-82 (1987).(First Author Supervised by Candidate)
96. Varaprasad, A.M. and K. Uchino, "Dielectric and Piezoelectric Studies of La Doped PZT-Polymer Composites," *Ferroelectrics Lett.* 7, 89-95 (1987). (Contributing Author)
97. Metha, P.K., B.D. Padalia, M.V.R. Murty, A.M. Varaprasad and K. Uchino, "X-Ray Structural Determination of Sr and La Doped PZT," *Ferroelectrics* 7, 121-129 (1987).(Contributing Author)
98. Sada, T., M. Inoue and K. Uchino, "Photostrictive Effect in PLZT Ceramics," *J. Jpn. Ceram. Soc.* 5, 545-550 (1987).(First Author Supervised by Candidate)

99. Uchino, K., M. Yoshizaki, K. Kasai, H. Yamamura, N. Sakai and H. Asakura, "New Monolithic Actuator "Monomorph" Utilizing Semiconductive Ferroelectrics," J. Jpn. Ceram. Soc. 7, 60-63 (1987).(Principal Author)
100. Uchino, K., M. Yoshizaki, K. Kasai, H. Yamamura, N. Sakai and H. Asakura, ""Monomorph Actuators" Using Semiconductive Ferroelectrics," Jpn. J. Appl. Phys. 26 (7), 1046-1049 (1987).(Principal Author)
101. Uchino, K., M. Yoshizaki, K. Kasai and H. Yamamura, ""Monomorph" Characteristics in Lead Zirconate Based Ceramics," Jpn. J. Appl. Phys. 26 (8), 1252-1255 (1987). (Principal Author)
102. Uchino, K., M. Yoshizaki and A. Nagao, "Monomorph Characteristics of Semiconductive Piezoceramics," Jpn. J. Appl. Phys. 26, Suppl. 26-2, 201-203 (1987).(Principal Author)
103. Uchino, K., T. Hirose and A.M. Varaprasad, "Acoustic Emission in Piezoelectric/Electrostrictive Actuators," Jpn. J. Appl. Phys. 26, Suppl. 26-2, 167-170 (1987).(Principal Author)
104. Uchino, K., "Ultrasonic Motors Utilizing Piezoelectric Ceramics," Solid State Phys., Special Issue "Ferroelectrics" 23 (8), 632-640 (1988).(Principal Author)
105. Uchino, K., "Ceramic Actuators," FC Annual Report for Overseas Readers, p. 23-31 (1988).(Principal Author)
106. Uchino, K. and T. Ishii, "Mechanical Damper Using Piezoelectric Ceramics," J. Jpn. Ceram. Soc. 96 (8), 863-867 (1988).(Principal Author)
107. Uchino, K., K. Kato, M. Imaizumi and M. Tohda, "Ultrasonic Linear Motors Utilizing Piezoelectric Actuators," J. Jpn. Ceram. Soc. 96 (12), 1131-1136 (1988). (Principal Author)
108. Tanimura, M. and K. Uchino, "Effect of Impurity Doping on Photostriction in Ferroelectric Ceramics, Sensors and Materials," 1, 47-56 (1988).(First Author Supervised by Candidate)
109. Hirose, T. and K. Uchino, "Acoustic Emission in Ceramic Actuators," Ferroelectrics 87, 295-302 (1988).(First Author Supervised by Candidate)
110. Uchino, K., K. Kato and M. Tohda, "Ultrasonic Linear Motors Using a Multilayered Piezoelectric Actuator," Ferroelectrics 87, 331-334 (1988).(Principal Author)
111. Uchino, K., "Ultrasonic Motors," J. Precision Eng. 55 (3), 51-56 (1989). (Principal Author)

112. Uchino, K., "Recent Topics of Ceramic Actuators, How to Develop New Ceramic Devices," *Ferroelectrics* 91 (Proc. ECAPD-1/ISAF'88) , 281-292 (1989).(Principal Author)
113. Uchino, K., "Development of Shape Memory Ceramics," *J. Metal*, Special Issue "Shape Memory Materials," August 41-47 (1989).(Principal Author)
114. Uchino, K., "Photostrictive Actuators," *J. Jpn. Mechanical Eng.*, October, 947 (1989).(Principal Author)
115. Uchino, K., "Micro Walking Mechanisms Using Piezoelectric Actuators," *Automation Technology*, 21 (7), 34-38 (1989).(Principal Author)
116. Ohnishi, K., T. Morohashi and K. Uchino, "HIP Sintering of Ultrafine Barium Titanate," *J. Jpn. Ceram. Soc.* 97 (4), 473-477 (1989).(Contributing Author)
117. Asakura, H., H. Yamamura and K. Uchino, "Humidity Sensitive Actuator," *Ferroelectrics* 93, 205-210 (1989) (Proceeding of ECAPD-1/ISAF' 88).(First Author Supervised by Candidate)
118. Hirose, T. and K. Uchino, "Acoustic Emission in Ceramic Actuators," *Ferroelectrics* 93, 217-224 (1989) (Proceeding of ECAPD-1/ISAF' 88).(First Author Supervised by Candidate)
119. Tohda, M., S. Ichikawa, K. Uchino and K. Kato, "Ultrasonic Linear Motor Using a Multilayered Piezoelectric Actuator," *Ferroelectrics* 93, 287-294 (1989) (Proceeding of ECAPD-1/ISAF' 88).(First Author Supervised by Candidate)
120. Hagimura, A. and K. Uchino, Impurity Doping Effect on Electrostrictive Properties of (Pb, Ba)(Zr,Ti)O₃," *Ferroelectrics* 93, 373-378 (1989) (Proceeding of ECAPD-1/ISAF' 88).(First Author Supervised by Candidate)
121. Tokiwa, K. and K. Uchino, "Grain Size Dependence of Electro-optic Effect in PLZT Transparent Ceramics," *Ferroelectrics* 94, 87-92 (1989) (Proceeding of ECAPD-1/ISAF' 88).(First Author Supervised by Candidate)
122. Uchino, K., M. Yoshizaki and A. Nagao, "Monomorph Characteristics in Pb(Zr,Ti)O₃ Based Ceramics," *Ferroelectrics* 95, 161-164 (1989).(Principal Author)
123. Uchino, K., E. Sadanaga and T. Hirose, "Dependence of the Crystal Structure on Particle Size in Barium Titanate," *J. Amer. Ceram. Soc.* 72 (8), 1555-1558 (1989). (Principal Author)
124. Uchino, K. H. Negishi and T. Hirose, "Drive Voltage Dependence of Electromechanical Resonance in PLZT Piezoelectric Ceramics," *Jpn. J. Appl.*

- Phys. 28 (Suppl. 28-2), 47-49 (1989) (Proceeding of the FMA-7, Kyoto).
(Principal Author)
125. Ohnishi, K., T. Morohashi and K. Uchino, "Mix Sintering Ferroelectric Materials Using HIP," Jpn. J. Appl. Phys. 28 (Suppl. 28-2), 74-76 (1989) (Proceeding of the FMA-7, Kyoto).(Contributing Author)
 126. Tanimura, M., K. Uchino and K. Hikita, "All-Optical Control Devices Utilizing Bulk Photovoltaic Effect," Jpn. J. Appl. Phys. 28 (Suppl. 28-2), 170-172 (1989) (Proceeding of the FMA-7, Kyoto).(First Author Supervised by Candidate)
 127. Sada, T., C. Umezawa and K. Uchino, "Temperature Dependence of Electrostriction in Lead Zinc Niobate," Jpn. J. Appl. Phys. 28 (1), 46-49 (1989). (First Author Supervised by Candidate)
 128. Uchino, K., "Micro Walking Machines Using Piezoelectric Actuators," J. Rob. Mech. 1 (2), 124-127 (1989).(Principal Author)
 129. Uchino, K., "Drive/Control Techniques of Piezoelectric Actuators," Mechanical Designing 34 (17), 41-46 (1990).(Principal Author)
 130. Uchino, K., "Micro Mechanism Using Piezoelectric Devices," J. Jpn. Robot Soc. 8 (4), 119-121 (1990).(Principal Author)
 131. Oh, K.Y., A. Furuta and K. Uchino, "Shape Memory Unimorph Actuators Using Lead Zirconate-Based Antiferroelectrics," J. Jpn. Ceram. Soc. 98 (8), 905-908 (1990).(First Author Supervised by Candidate)
 132. Kato, K., K. Suzuki and K. Uchino, "Dynamic Domain Observation in Ferroelectric Single Crystals with a Diffuse Phase Transition," J. Jpn. Ceram. Soc. 98 (8), 840-845 (1990).(First Author Supervised by Candidate)
 133. Uchino, K., "Piezoelectric Ceramics," Ceramics 25 (1), 23-25 (1990).(Principal Author)
 134. Uchino, K., "Relaxor Ferroelectrics, J. Ceram. Soc. Jpn. 99 (10), 829-835 (1991).(Principal Author)
 135. Uchino, K., "Relaxor Ferroelectrics –Review–," Electronic Ceramics 6, 5-13 (1991).(Principal Author)
 136. Suzuki, Y., K. Uchino, H. Gouda, M. Sumita, R. E. Newnham and A. R. Ramachandran," Mechanical Dampers Using Piezoelectric Composites," J. Ceram. Soc. Jpn. 99 (11), 1135-1137 (1991).(First Author Supervised by Candidate)

137. Uchino, K. and K. Y. Oh, "Piezoelectric Anisotropy and Polarization Sublattice Coupling in Perovskite Crystals," J. Amer. Ceram. Soc. 74 (5), 1131-1134 (1991).(Principal Author)
138. Uchino, K., "Applications of Piezoelectric Ceramics in Smart Actuators and Systems," J. Industrial Education Soc. Jpn. 40 (2), 28-32 (1992).(Principal Author)
139. Uchino, K., "Photostrictive Actuators," *Optronics* 129, 86-90 (1992).(Principal Author)
140. Uchino, K., "Photostrictive Actuators," J. Precision Engr. Jpn. 58, 419-421 (1992).(Principal Author)
141. Oh, K. Y., Y. Saito, A. Furuta and K. Uchino, "Piezoelectricity in the Field-Induced Ferroelectric Phase of Lead Zirconate-Based Antiferroelectrics," J. Amer. Ceram. Soc. 75 (4), 795-799 (1992).(First Author Supervised by Candidate)
142. Furuta, A., K. Y. Oh and K. Uchino, "Shape Memory Ceramics and Their Application to Latching Relays," *Sensors and Mater.* 3 (4), 205-215 (1992).(First Author Supervised by Candidate)
143. Goto, H., K. Imanaka and K. Uchino, "Piezoelectric Actuators for Light Beam Scanners,," *Ultrasonic Techno* 5, 48-51 (1992).(Contributing Author)
144. Sugawara, Y., K. Onitsuka, S. Yoshikawa, Q. C. Xu, R. E. Newnham and K. Uchino, "Metal-Ceramic Composite Actuators," J. Amer. Ceram. Soc. 75 (4), 996-998 (1992).(First Author Supervised by Candidate)
145. Uchino, K. and S. Suzuki, "Speakers Utilizing Semiconductive Piezoelectric Monomorph Devices," J. Ceram. Soc. Jpn. 100 (10), 1221-1224 (1992).(Principal Author)
146. Uchino, K., N. Y. Lee, T. Toba, N. Usuki, H. Aburatani and Y. Ito, "Changes in the Crystal Structure of RF-Magnetron Sputtered BaTiO₃ Thin Films," J. Ceram. Soc. Jpn. 100 (9), 1091-1093 (1992).(Principal Author)
147. Uchino, K., "Ceramic Actuators: Principles and Applications," *MRS Bull.*, XVIII (4), 42-48 (1993).(Principal Author)
148. Uchino, K., "Applications of Piezoelectrics in Smart Actuator," *Bull. Ceram. Soc. Jpn.* 28 (6), 559-563 (1993).(Principal Author)
149. Uchino, K., "Smart Actuators," *Ultrasonic Technology* 5 (8), 19-23 (1993).(Principal Author)

150. Furuta, A. and K. Uchino, "Dynamic Observation of Crack Propagation in Piezoelectric Multilayer Actuators," *J. Amer. Ceram. Soc.* 76 (6), 1615-1617 (1993).(First Author Supervised by Candidate)
151. Aburatani, H., S. Harada, K. Uchino, A. Furuta and Y. Fuda, "Destruction Mechanisms in Ceramic Multilayer Actuators," *Jpn. J. Appl. Phys.* 33, 3091-3094 (1994).(First Author Supervised by Candidate)
152. Lee, N. Y., T. Sekine, Y. Ito and K. Uchino, "Deposition Profile of RF-Magnetron Sputtered BaTiO₃ Thin Films," *Jpn. J. Appl. Phys.* Vol.33, 1484-88 (1994).(First Author Supervised by Candidate)
153. Lee, D., J. Yuk, N. Lee and K. Uchino, "Humidity-Sensitive Properties of Nb₂O₅-Doped Pb(Zr,Ti)O₃," *Sensor and Mater.* 5 (4), 231-240 (1994).(Contributing Author)
154. Oh, K. Y., K. Uchino and L. E. Cross, "Optical Study of Ba(Ti,Sn)O₃ Ceramics," *J. Amer. Ceram. Soc.* Vol.77(11), 2809-16 (1994).(First Author Supervised by Candidate)
155. Lee, N. Y., N. Usuki, T. Sekine, Y. Ito, H. Aburatani and K. Uchino, "Pb/Ti Ratio of RF-Magnetron Sputtered PbTiO₃ Thin Films," *Jpn. J. Appl. Phys.* (1994) (in press).(First Author Supervised by Candidate)
156. Chu, S. Y., J. Ye and K. Uchino, "Photovoltaic Effect for the Linearly Polarized Light in (Pb,La)(Zr,Ti)O₃ Ceramics," *Smart Mater. & Structures* 3, 114-117 (1994).(First Author Supervised by Candidate)
157. Chu, S. Y., Z. Ye and K. Uchino, "Effect of Impurity Doping on Photostrictive Effect in PLZT Ceramics," *J. Advanced Performance Mater.* Vol.1, 129-143 (1994) (First Author Supervised by Candidate)
158. Takahashi, S., S. Hirose and K. Uchino, "Stability of PZT Piezoelectric Ceramics Under Vibration Level Change," *J. Amer. Ceram. Soc.* Vol.77(9), 2429-32 (1994) (Contributing Author)
159. Uchino, K., "Worldwide Research and Development of Ceramic Actuators," *New Ceramics (TCI, Tokyo)* Vol.7(11), 5-13 (1994).(Principal Author)
160. Furuta, A. and K. Uchino, "Destruction Mechanism of Multilayer Ceramic Actuators: Case of Antiferroelectrics," *Ferroelectrics* Vol.160, 277-285 (1994) (First Author supervised by Candidate)
161. Chu, S. Y., M. L. Mulvihill, Z. Ye and K. Uchino, "Bulk Photovoltaic Effect for the Linearly Polarized Light in Pb(Zn_{1/3}Nb_{2/3})O₃ Single Crystals," *Jpn. J. Appl. Phys.* Vol.34, 527-529 (1995) (First Author Supervised by Candidate)

162. Uchino, K., "Electrooptic Ceramics and Their Display Applications," *Ceramics International* Vol.21, 309-315 (1995). (Principal Author)
163. Uchino, K., "Manufacturing Technology of Multilayered Transducers," *Proc. Amer. Ceram. Soc., Manufacture of Ceramic Components*, p.81-93 (1995). (Principal Author)
164. Takahashi, S., Y. Sasaki, S. Hirose and K. Uchino, "Stability of $\text{PbZrO}_3\text{-PbTiO}_3\text{-Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ Piezoelectric Ceramics under Vibration-Level Change," *Jpn. J. Appl. Phys.* Vol. 34, 5328-5331 (1995).(Contributing Author)
165. Chu, S. Y. and K. Uchino, "Photostrictive Effect in PLZT-Based Ceramics and Its Applications," *Ferroelectrics*, Vol. 174, 185-196 (1995). (First Author Supervised by Candidate)
166. Mulvihill, M. L., L. E. Cross and K. Uchino, "Low Temperature Dynamic Observation of Relaxor Ferroelectric Domains in Lead Zinc Niobate," *J. Amer. Ceram. Soc.* Vol.78, 3345-3351 (1996).(First Author Supervised by Candidate)
167. Mulvihill, M. L., K. Uchino, Z. Li and W. Cao, "In-situ Observation of the Domain Configurations During the Phase Transitions in Barium Titanate," *Phil. Mag. B*, Vol. 74, 25 - 36 (1996). (First Author Supervised by Candidate)
168. Mulvihill, M. L., S. E. Park, G. Risch, Z. Li, K. Uchino and T. R. Shrout, " The Role of Processing Variables in the Flux Growth of PZN-PT Relaxor Ferroelectric Single Crystals," *Jpn. J. Appl. Phys.* Vol.35, 3984-3990 (1996). (First Author Supervised by Candidate)
169. Koc, B., A. Dogan, J. F. Fernandez, R. E. Newnham and K. Uchino, "Accelerometer Application of the Modified Moonie (Cymbal) Transducer," *Jpn. J. Appl. Phys.* Vol. 35, 4547-4549 (1996).(First Author Supervised by Candidate)
170. Aburatani, H. and K. Uchino, "Acoustic Emission (AE) Measurement Technique in Piezoelectric Ceramics," *Jpn. J. Appl. Phys.* Vol. 35, L516-L518 (1996).(First Author Supervised by Candidate)
171. Zheng, J., S. Takahashi, S. Yoshikawa, K. Uchino and J. W. C. de Vries, "Heat Generation in Multilayer Piezoelectric Actuators," *J. Amer. Ceram. Soc.* Vol. 79, 3193-98 (1996). (First Author Supervised by Candidate)
172. Koc, B., A. Dogan, J. F. Fernandez, R. E. Newnham and K. Uchino, "Accelerometer Application of the Modified Moonie (Cymbal) Transducer," *Jpn. J. Appl. Phys.* Vol. 35, 4547-4549 (1996).(First Author Supervised by Candidate)
173. Uchino, K. and S. Takahashi, "Multilayer Ceramic Actuators," *Current Opinion, Ceramics, Composites and Intergrowths*, p.698- 705 (1996).(Principal Author)

174. Uchino, K., "New Applications of Photostriction," *Innovations in Mater. Res.*, Vol.1 (No.1), 11-22 (1996).(Principal Author)
175. Zhang, Q. M., J. Zhao, K. Uchino and J. Zheng, "Change of the Weak-Field Properties of Pb(ZrTi)O₃ Piezoceramics with Compressive Uniaxial Stresses and Its Links to the Effect of Dopants on the Stability of the Polarizations in the Materials," *J. Mater. Res.*, Vol.12 (No.1), 226-234 (1996).(Contributing Author)
176. Yoshikawa, Y. and K. Uchino, "Chemical Preparation of Lead-Containing Niobate Powders," *J. Amer. Ceram. Soc.*, Vol.79 [9], 2417-21 (1996).(Contributing Author)
177. Yoon, S. J., A. Joshi and K. Uchino, "Effect of Additives on the Electromechanical Properties of Pb(Zr,Ti)O₃-Pb(Y_{2/3}W_{1/3})O₃," *J. Amer. Ceram. Soc.*, Vol.80 [4], 1035-39 (1997).(First Author Supervised by Candidate)
178. Dogan, A., K. Uchino and R. E. Newnham, "Composite Piezoelectric Transducer with Truncated Conical Endcaps "Cymbal"," *IEEE Trans. UFFC*, Vol.44 [3], 597-605 (1997).(First Author Supervised by Candidate)
179. Poosanaas, P., A. Dogan, A. V. Prasadarao, S. Komarneni and K. Uchino, "Photostriction of Sol-Gel Processed PLZT Ceramics," *J. Electroceramics*, Vol.1, 105-111 (1997).(First Author Supervised by Candidate)
180. Mulvihill, M. L., L. E. Cross, W. Cao and K. Uchino, "Domain-Related Phase Transitionlike Behavior in Lead Zinc Niobate Relaxor Ferroelectric Single Crystals," *J. Amer. Ceram. Soc.*, Vol.80 [6], 1462-68 (1997).(First Author Supervised by Candidate)
181. Du, X. H., U. Belegundu and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties in Lead Zirconate Titanate : Theoretical Expectation for Thin Films," *Jpn. J. Appl. Phys.*, Vol.36 [9A], 5580-5587 (1997).(First Author Supervised by Candidate)
182. Uchino, K., "New Applications of Photostrictive Ferroics," *Mat. Res. Innovat.*, 1, 163-168 (1997). (Principal Author)
183. Aburatani, H., J. P. Witham and K. Uchino, "Acoustic Emission in Lead Zirconate Titanate PLZT(18/40/60) Ceramics with Small Electrostriction", *Jpn. J. Appl. Phys.*, 36, part 1, No.11, 6829-6831 (1997).
184. Bein, T, E. J. Breitbach and K. Uchino, "Linear Ultrasonic Motor Using the First Longitudinal and the Fourth Bending Mode," *J. Smart Materials and Structures* 6, 619-627 (1997). (First Author Supervised by Candidate)

185. Tanimoto, T., K. Horiuchi, and K. Uchino, "Passive Damping Performance of an Adaptive Carbon-Fiber Reinforced Plastics/Lead Zirconate Titanate Beam," *Jpn. J. Appl. Phys.*, 36 (Part 1, No. 9B), p. 6110 - 6113 (1997).
186. Aburatani, H. and K. Uchino, "A Study of Acoustic Emission in Piezoelectric Multilayer Ceramic Actuator", *Jpn. J. Appl. Phys.*, 37, part 1, No. 1, 204-209 (1998).
187. Aburatani, H., J. P. Witham and K. Uchino, "A Fractal Analysis on Domain Related Electric Field Induced Acoustic Emission in Ferroelectric Ceramics," *Jpn. J. Apply. Phys.* 37, Part 1, No. 2, 602-605 (1998).
188. Kim, J. S. and K. Uchino, "Piezoelectric Ultrasonic Motors," *Bull. Korean Inst. Electrical and Electronic Mater. Eng.*, 11[2], 149-152 (1998).
189. Yoon, S. J. and K. Uchino, "High Power Characteristics of $\text{Pb}(\text{Y}_{2/3}\text{W}_{1/3})\text{O}_3\text{-Pb}(\text{Zr,Ti})\text{O}_3$ Ceramics," *J. Korean Inst. Electrical and Electronic Mater. Eng.* 11 [5], 394-399 (1998).
190. Kim, J. S., Y. H. Chen and K. Uchino, "Dielectric and Piezoelectric Properties of Fe_2O_3 -Doped 0.57PSN-0.43PT Ceramics," *J. Korean Phys. Soc.* 32 [2], S1248-1250 (1998).
191. Du, X. H., J. Zheng, U. Belegundu and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties of Lead Zirconate Titanate Near the Morphotropic Phase Boundary," *J. Appl. Phys. Letters*, 72, No.19, 2421-2423 (1998). (First Author Supervised by Candidate)
192. Uchino, K., J. Zheng, A. Joshi, Y. H. Chen, S. Yoshikawa, S. Hirose, S. Takahashi and J. W. D. de Vries, "High Power Characterization of Piezoelectric Materials," *J. Electroceramics*, 2, 33-40 (1998). (Principal Author)
193. Uchino, K., "High Electromechanical Coupling Piezoelectrics: Relaxor and Normal Ferroelectric Solid Solutions," *Solid State Ionics* 108, 43-52 (1998). (Principal Author)
194. Uchino, K., "Piezoelectric Ultrasonic Motors: Overview," *Smart Mater. Struct.* 7, 273-285 (1998). (Principal Author)
195. Poosanaas, P., A. Dogan, S. Thakoor and K. Uchino, "Influence of Sample Thickness on the Performance of Photostrictive Ceramics," *J. Appl. Phys.* 84 [3], 1508-1512 (1998). (First Author Supervised by Candidate)
196. Fernandez, J. F., A. Dogan, J. T. Fielding, K. Uchino and R. E. Newnham, "Tailoring the Performance of Ceramic-Metal Piezocomposite Actuators, 'Cymbals'," *Sensors and Actuators A* 65, 228-237 (1998).

197. Uchino, K., "Materials Issues in Design and Performance of Piezoelectric Actuators: An Overview," *Acta Mater.* 46[11], 3745-3753 (1998).
198. Koc, B., A. Dogan, Y. Xu, R. E. Newnham and K. Uchino, "An Ultrasonic Motor Using a Metal-Ceramic Composite Actuator Generating Torsional Displacement," *Jpn. J. Appl. Phys.* 37, 5659-5662 (1998). (First Author Supervided by Candidate).
199. Uchino, K., "Piezoelectric Devices for Medical Ultrasonic Scanning," *J. Advanced Medicine* 5, 38-40 (1998).
200. Kim, J. S., and K. Uchino, "Piezoelectric Actuators and Ultrasonic Motors," *Bull. Korean Inst. Electr. and Electron. Mater. Engr.* 11(2), 149-152 (1998). (First Author Supervided by Candidate).
201. Aburatani, H. and K. Uchino, "Acoustic Emission in Damaged Ferroelectric Lead Zirconate Titanate Ceramics," *Jpn. J. Appl. Phys.* 37, L553-L555 (1998). (First Author Supervided by Candidate).
202. Kim, J. S., S. J. Kim, H. G. Kim, D. C. Lee and K. Uchino, "Piezoelectric and Dielectric Properties of Fe₂O₃-Doped 0.57Pb(Sc_{1/2}Nb_{1/2})O₃-0.43PbTiO₃ Ceramic Materials," *Jpn. J. Appl. Phys.*, 38 (Part 1, No. 3A), 1433 - 1437 (1999). (First Author Supervided by Candidate).
203. Du, X. H., Q. M. Wang, U. Belegundu and K. Uchino, "Piezoelectric Property Enhancement in Polycrystalline Lead Zirconate Titanate by Changing Cutting Angle," *J. Ceram. Soc. Jpn.*, 107 (2), 190 - 191 (1999). (First Author Supervided by Candidate).
204. Du, X. H., Q. M. Wang, U. Belegundu, A. Bhalla and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties of Single Crystal Barium Titanate," *Mater. Lett.* 40, 109-113 (1999). (First Author Supervided by Candidate).
205. Yao, K., W. Zhu, K. Uchino, Z. Zhang and L. C. Lim, "Design and Fabrication of a High Performance Multilayer Piezoelectric Actuator with Bending Deformation," 46 (4), 1020-1027 (1999). (First Author Supervided by Candidate).
206. Zhang, J., W. J. Hughes, P. Bouchilloux, R. J. Meyer Jr., K. Uchino and R. E. Newnham, "A Class V Flexensional Transducer: The Cymbal," *Ultrasonics*, 37, 387-393 (1999). (First Author Supervided by Candidate).
207. Uchino, K., and Y. Ito, "Trends in Electromechanical Transduction" (authored by I. J. Busch-Vishniac) *Translation, Parity*, 14, No. 6, p. 29 - 37 (1999). (Principal Author)
208. Uchino, K., "Ultra-Small Ultrasonic Motors," *Ultrasonic Techno*, 11, No. 4, p. 72-76 (1999). (Principal Author)

209. Poosanaas, P., and K. Uchino, "Photostrictive Effect in Lanthanum-Modified Lead Zirconate Titanate Ceramics near the Morphotropic Phase Boundary," *J. Mater. Chem. and Phys.* 61, 36-41 (1999).(First Author Supervised by Candidate)
210. Belegundu, U., X. H. Du, and K. Uchino, "Effect of Electric Field on Domain Formation in Relaxor Based $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," *Ferroelectrics Lett.* 26, 107-116 (1999). (First Author Supervided by Candidate).
211. Zhang, J., W. J. Hughes, R. J. Meyer Jr., K. Uchino and R. E. Newnham, "Cymbal Array: A Broad Band Sound Projector," *Ultrasonics* 37, 523-529 (2000). (First Author Supervided by Candidate).
212. Belegundu, U., X. H. Du, L. E. Cross and K. Uchino, "In Situ Observation of Domains in $0.9\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.1\text{PbTiO}_3$ Single Crystals," *Ferroelectrics* 221, 67-71 (1999). (First Author Supervided by Candidate).
213. Uchino, K. and B. Koc, "Compact Piezoelectric Ultrasonic Motors," *Ferroelectrics* 230, 73-86 (1999).(Principal Author)
214. Kim, J. S., M. J. Park and K. Uchino, "Composite Ultrasonic Motors Using a Piezoelectric Disk and an Elastic Body of "Windmill" Type," *Ferroelectrics* 232, 185-190 (1999). (First Author Supervided by Candidate).
215. Abothu, I. R., Y. Ito, P. Poosanaas, S. Kalpat, S. Komarneni and K. Uchino, "Sol-Gel Processing of Piezoelectric Thin Films," *Ferroelectrics* 232, 191-195 (1999). (First Author Supervided by Candidate).
216. Liu, S. F., I. R. Abothu, S. Komarneni, P. Poosanaas, D. S. Paik, Y. Ito and K. Uchino, "PLZT Ceramics Prepared from Conventional and Microwave Hydrothermal Powders," *Ferroelectrics* 231, 179-185 (1999). (First Author Supervided by Candidate).
217. Poosanaas, P., Dogan, A., Prasadarao, A. V., Komarneni, S. and Uchino, K., "Effect of Ceramic Processing Methods on Photostrictive Ceramics", *J. Advanced Performance Mater.* 6, 57-69 (1999).(First Author Supervised by Candidate)
218. Poosanaas, P., K. Tonooka and K. Uchino, "Photostrictive Actuators," *J. Mechatronics* 10, 467-487 (2000). (First Author Supervided by Candidate).
219. Koc. B., P. Bouchilloux, and K. Uchino, "Piezoelectric Micromotor Using A Metal-Ceramic Composite Structure," *IEEE Trans. Ultrasonic, Ferroelectrics, and Frequency Control* 47 (4), 836-843 (2000). (First Author Supervided by Candidate).
220. Chen, Y. H., S. Hirose, D. Viehland, S. Takahashi and K. Uchino, " Mn-Modified $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Ceramics: Improved Mechanical Quality Factors for

- High-Power Transducer Applications," *Jpn. J. Appl. Phys.* **39**, 4843-4852 (2000). (First Author Supervided by Candidate).
221. Poosanaas, P., K. Tonooka, I. R. Abothu, S. Komarneni, and K. Uchino, "Influence of Composition and Dopant on Photostriction in Lanthanum-Modified Lead Zirconate Titanate Ceramics," *J. Intelligent Mater. Systems and Structures* **10**, 439-445 (2000). (First Author Supervided by Candidate).
 222. Yao, K., K. Uchino, Y. Xu, S. Dong, and L. C. Lim, "Compact Piezoelectric Stacked Actuators for High Power Applications," *IEEE Trans. UFFC*, **47**, 819-825 (2000). (First Author Supervided by Candidate)
 223. Uchino, K. and S. Hirose, "Loss Mechanisms in Piezoelectrics: How to Measure Different Losses Separately," *IEEE UFFC Transactions*, **48**, 307-321 (2001). (Principal Author)
 224. Chen, Y. H., D. Viehland and K. Uchino, "Substituent Effects in $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ Piezoelectric Ceramics" *J. Electroceramics*, **6**, 13-19 (2001). (First Author Supervided by Candidate).
 225. Kalpat, S., X. Du, I. R. Abothu, A. Akiba, H. Goto and K. Uchino, "Effect of Crystal Orientation on Dielectric Properties of Lead Zirconate Titanate Thin Films Prepared by Reactive RF-Sputtering," *Jpn. J. Appl. Phys.*, **40**, 713-717 (2001). (First Author Supervided by Candidate).
 226. Gao, Y. Y. H. Chen, J. Ryu, K. Uchino and D. Viehland, "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," *Jpn. J. Appl. Phys.*, **40**, 687-693 (2001). (First Author Supervided by Candidate).
 227. Chen, Y. H., K. Uchino and D. Viehland, "Substituent-Introduction of "Hard" Polarization Characteristics in "Soft" $\text{Pb}(\text{B}_\text{I}\text{B}_\text{II})\text{O}_3\text{-PbTiO}_3$ Ferroelectric Ceramics," *J. Appl. Phys.*, **89** (7), 3928-3933 (2001). (First Author Supervided by Candidate).
 228. Uchino, K., B. Koc, P. Laoratanakul and A. Vazquez Carazo, "Piezoelectric Transformers –New Perspective-," *Ferroelectrics*, **263**, 91-100 (2001). (Principal Author).
 229. Uchino, K., B. Koc and S. Dong, "Compact Ultrasonic Rotary Motors" *Ferroelectrics*, **257**, 3-12 (2001). (Principal Author).
 230. Ryu, J., A. Vazquez Carazo, K. Uchino and H. E. Kim, "Magnetolectric Properties in Piezoelectric and Magnetostrictive Laminate Composites," *Jpn. J. Appl. Phys.*, **40**, 4948-4951 (2001). (First Author Supervided by Candidate).

231. Ryu, J., A. Vazquez Carazo, K. Uchino and H. E. Kim, "Piezoelectric and Magnetostrictive Properties of Lead Zirconate Titanate/Ni-Ferrite Particulate Composites," *J. Electroceramics*, **7**, 17-24 (2001). (First Author Supervided by Candidate).
232. Priya, S., D. Viehland, A. V. Carazo, J. Ryu, and K. Uchino, "High-Power Resonant Measurements of Piezoelectric Materials: Importance of Elastic Nonlinearities", *J. Appl. Phys.*, **90**, 1469-1479 (2001). (First Author Supervided by Candidate).
233. Ryu, J., S. Priya, A. V. Carazo, K. Uchino, H.-E Kim, "Effect of the Magnetostrictive Layer on Magnetoelectric Properties in Pb(Zr,Ti)O₃/Terfenol-D Laminate Composites", *J. Am. Ceram. Soc.*, **84**, 2905-2908 (2001). (First Author Supervided by Candidate).
234. C. Sakaki, B. L. Newarkar, S. Komarneni and K. Uchino, "Grain Size Dependence of High Power Piezoelectric Characteristics in Nb Doped Lead Zirconate Titanate Oxide Ceramics," *Jpn. J. Appl. Phys.*, **40**, 6907-6910 (2001). (First Author Supervided by Candidate).
235. Priya, S., K. Uchino and D. Viehland, "Crystal Growth and Piezoelectric Properties of Mn-Substituted Pb(Zn_{1/3}Nb_{2/3})O₃ Single Crystal," *Jpn. J. Appl. Phys.*, **40**, L1044-L1047 (2001). (First Author Supervided by Candidate).
236. Priya, S., J. Ryu, K. Uchino, D. Viehland, H. Luo and Y. Yamashita, "Investigation of Elastic Nonlinearities in Pb(Zn_{1/3}Nb_{2/3})O₃-PbTiO₃ and Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ Single Crystals," *Jpn. J. Appl. Phys.*, **40**, 6487-6495 (2001). (First Author Supervided by Candidate).
237. Priya, S., J. Ryu, K. Uchino and D. Viehland, "Mechanical Aging Behavior of Oriented Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ and Pb(Zn_{1/3}Nb_{2/3})O₃-PbTiO₃ Single Crystals," *Appl. Phys. Lett.*, **79**, 2624-2626 (2001). (First Author Supervided by Candidate).
238. James, A. R., S. Priya, K. Uchino and K. Srinivas, "Dielectric Spectroscopy of Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ Single Crystals," *J. Appl. Phys.*, **90**, 3504-3508 (2001). (First Author Supervided by Candidate).
239. Kim, T.-Y., B.-J. Kim, T.-G. Park, M.-H. Kim and K. Uchino, "Design and Driving Characteristics of Ultrasonic Linear Motor," *Ferroelectrics*, **263**, 113-118 (2001). (First Author Supervided by Candidate).
240. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators – New Perspective-," *Ferroelectrics*, **258**, 147-158 (2001). (Principal Author).
241. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators – New Perspective-," *Ferroelectrics*, **264**, 303-308 (2001). (Principal Author).

242. Yao, K., B. Koc and K. Uchino, "Longitudinal-Bending Mode Micromotor Using Multilayer Piezoelectric Actuator," *IEEE Trans.- Ultrasonics, Ferroelectrics and Frequency Control*, **48**, 1066-1071 (2001). (First Author Supervided by Candidate).
243. Vazquez Carazo, A. and K. Uchino, "Novel Piezoelectric-Based Power Supply for Driving Piezoelectric Actuators Designed for Active Vibration Damping Applications," *J. Electroceramics* **7**, 197-210 (2001). (First Author Supervided by Candidate).
244. Belegundu, U., X. H. Du, and K. Uchino, "Switching Current Dependence on Crystal Orientation for Relaxor Based Ferroelectric Single Crystals," *J. Electroceramics*, **6**, 109-114 (2001). (First Author Supervided by Candidate).
245. Chen, Y. H., K. Uchino, M. Shen and D. Viehland, "Substituent Effect on the Mechanical Quality Factor of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ and $\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-PbTiO}_3$ Ceramics," *J. Appl. Phys.*, **90** (3), 1455-1458 (2001). (First Author Supervided by Candidate).
246. S. Kalpat and K. Uchino, "Highly Oriented Lead Zirconate Titanate Thin Films: Growth, Control of Texture, and Its Effect on Dielectric Properties," *J. Appl. Phys.*, **90** (6), 2703-2710 (2001). (First Author Supervided by Candidate).
247. Dogan, A., P. Poosanaas, I. R. Abothu, S. Konarneni and K. Uchino, "Nanocomposite PLZT Ceramic Materials in Comparison with Other Processing Technique for Photostrictive Application," *J. Ceram. Soc. Jpn.*, **109** (6) 493-499 (2001). (First Author Supervided by Candidate).
248. Priya, S., H. W. Kim, J. Ryu, K. Uchino and D. Viehland, "Fractal Cluster Modeling of the Fatigue Behavior of Lead Zirconate Titanate," *Appl. Phys. Lett.*, **80**(3) 1625-27 (2002). (First Author Supervided by Candidate).
249. Priya, S., K. Uchino and D. Viehland, "Dielectric and Piezoelectric Properties of Mn-Substituted $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystal," *J. Appl. Phys.*, **91**(8) 4515 (2002). (First Author Supervided by Candidate).
250. Laoratanakul, P., A. V. Carazo, P. Bouchilloux and K. Uchino, "Unipolarized Disk-type Piezoelectric Transformers," *Jpn. J. Appl. Phys.* **41**, 1446-1450 (2002). (First Author Supervided by Candidate).
251. Ryu, J., S. Priya, K. Uchino and H.-E. Kim, "Magnetoelectric Effect in Composites of Magnetostrictive and Piezoelectric Materials," *J. Electroceramics*, **8**, 107-119 (2002). (First Author Supervided by Candidate).
252. Ryu, J., S. Priya, K. Uchino and H.-E. Kim and D. Viehland, "High Magnetoelectric Properties in $0.68\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.32\text{PbTiO}_3$ Single Crystal

- and Terfenol-D Laminate Composites," J. Korean. Ceram. Soc. **39**, 813-817 (2002). (First Author Supervided by Candidate).
253. Koc, B., S. Cagatay and K. Uchino, "A Piezoelectric Motor Using Two Orthogonal Bending Modes of a Hollow Cylinder," IEEE Ultrasonic, Ferroelectric, Frequency Control Trans., **49**(4), 495-500 (2002). (First Author Supervided by Candidate).
 254. Ryu, J., S. Priya, C. Sakaki and K. Uchino, "High Power Piezoelectric Characteristics of BiScO₃-PbTiO₃-Pb(Mn_{1/3}Nb_{2/3})O₃," Jpn. J. Appl. Phys. **41**(10), 6040-6044 (2002). (First Author Supervided by Candidate).
 255. Du, X. H., Q. M. Wang and K. Uchino, "Accurate Determination of Complex Materials Coefficients of Piezoelectric Resonators" IEEE Trans. UFFC, **50**(3), 312-320 (2002). (First Author Supervided by Candidate).
 256. Kim, H. W., S. Dong, P. Laoratanakul, K. Uchino and T. Park, "Novel Method for Driving the Ultrasonic Motor," IEEE-UFFC Trans. Vol. **49**, NO. 10, 1356-1362 (2002). (First Author Supervided by Candidate).
 257. Dong, S., X.-H. Du, P. Bouchilloux and K. Uchino, "Piezoelectric Ring-Morph Actuators for Valve Application," J. Electroceramics **8**, 155-161 (2002). (First Author Supervided by Candidate).
 258. Gao, Y., K. Uchino and D. Viehland, "Rare Earth Metal Doping Effects on the Piezoelectric and Polarization Properties of Pb(Zr,Ti)O₃-Pb(Sb,Mn)O₃ Ceramics," J. Appl. Phys. **92**, 2094-2099 (2002). (First Author Supervided by Candidate).
 259. Dong, S., S. Cagatay, K. Uchino and D. Viehland, "A 'Center-Wobbling' Ultrasonic Rotary Motor Using a Metal Tube- Piezoelectric Plate Composite Stator," J. Intelligent Mater. Systems and Structures, **13**(11), 749-755 (2002). (First Author Supervided by Candidate).
 260. Ryu, J., S. Priya and K. Uchino, "High T_m Relaxor Ferroelectrics: 0.3BiScO₃-0.6PbTiO₃-0.1Pb(Mn_{1/3}Nb_{2/3})O₃," Appl. Phys. Lett., **82**(2), 251-253 (2002). (First Author Supervided by Candidate).
 261. Priya, S., J. Ryu, K. Uchino, D. Viehland, and L. E. Cross, "Investigation of the Ferroelectric Orthorhombic Phase in 0.92Pb(Zn_{1/3}Nb_{2/3})O₃ - 0.08PbTiO₃ System", Ferroelectrics **274**, 121 (2002). (First Author Supervided by Candidate).
 262. Priya, S., K. Uchino, H. Luo and D. Viehland, "Investigation of Electromechanical Properties of PMN-PT Single Crystals under Uniaxial and Hydrostatic Pressures", Ferroelectrics **274**, 299 (2002). (First Author Supervided by Candidate).

263. Priya, S., H. –Y. Kim, J. Ryu, S. Zhang, T. R. Shrout, and K. Uchino, “Modelling of Fatigue Behavior in PZN-PT Single Crystals: Improved Behavior by Mn-Substitution”, *J. Appl. Phys.*, **92**, 3923 (2002). (First Author Supervided by Candidate).
264. Priya, S., K. Uchino and D. Viehland, “Fe-Substituted $0.92\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3 - 0.08\text{PbTiO}_3$ Single Crystals: A “Hard” Piezocrystal”, *Appl. Phys. Lett.* **80**, 4217 (2002). (First Author Supervided by Candidate).
265. Priya, S., K. Uchino and D. Viehland, “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”, *Appl. Phys. Lett.* **80**, 4217 (2002). (First Author Supervided by Candidate).
266. James, A. R., S. Priya, K. Uchino and S. Srinivas, “ Investigation of Intrinsic Defect Structure in $0.91\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3 - 0.09\text{PbTiO}_3$ Single Crystal through AC Conductivity”, *Jap. J. Appl. Phys. Part 1* **41**, 5272 (2002). (First Author Supervided by Candidate).
267. Park, T., B. Kim, M. –H. Kim and K. Uchino, “Characteristics of the First Longitudinal-Fourth Bending Mode Linear Ultrasonic Motors,” *Jpn. J. Appl. Phys.*, **41**(11B), 7139-7143 (2002). (Contributing Author)
268. Dong, S., S. P. Lim, K. H. Lee, J. Zhang, L. C. Lim and K. Uchino, “Piezoelectric Ultrasonic Micromotors with 1.5 mm Diameter,” *IEEE UFFC Trans.*, **50**(4), 361-367 (2003). (First Author Supervided by Candidate).
269. B. Koc, Y. Gao, K. Uchino, “Design of a Circular Piezoelectric Transformer with Crescent-Shaped Input Electrodes,” *Jpn. J. Appl. Phys.* **42**(2A), 509-514 (2003). (First Author Supervided by Candidate).
270. Bouchilloux and K. Uchino, “Combined Finite Element Analysis – Genetic Algorithm Method for the Design of Ultrasonic Motors,” *J. Intelligent Mater. Systems and Structures*, **14** (10), 657-667 (2003). (First Author Supervided by Candidate).
271. Priya, S. and K. Uchino, “High Power Resonance Characteristics and Dielectric Properties of Co-substituted $0.92\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3 - 0.08\text{PbTiO}_3$ Single Crystal”, *Jap. J. Appl. Phys.*, **42**(2A), 531-534 (2003). (First Author Supervided by Candidate).
272. Ryu, J., H. W. Kim, K. Uchino and J. Lee, “Effect of Yb Addition on the Sintering Behavior and High Power Piezoelectric Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Mn,Nb})\text{O}_3$,” *Jpn. J. Appl. Phys.*, **42**(3), 1307-1310 (2003). (First Author Supervided by Candidate).
273. Ahn, C. -W., S. –Y. Noh, S. Nahm, J. Ryu, K. Uchino, S. –J. Yoon and J. –S. Song, “Low-Temperature Sintering and Piezoelectric Properties of Zn-Added

- 0.41Pb(Ni_{1/3}Nb_{2/3})O₃-0.36PbTiO₃-0.23PbZrO₃ Ceramics,” Jpn. J. Appl. Phys., **42** (9A), 5676-5680 (2003). (First Author Supervided by Candidate).
274. Ryu, J., S. Priya and K. Uchino, “High-T_m Relaxor Ferroelectrics: 0.3BiScO₃-0.6PbTiO₃-0.1Pb(Mn_{1/3}Nb_{2/3})O₃,” Appl. Phys. Lett., **82** (2), 251-253 (2003). (First Author Supervided by Candidate).
275. Priya, S. and K. Uchino, “Estimation of Polarocaloric Contribution to Dielectric Loss in Oriented 0.92PZN-0.08PT Single Crystals”, Jpn. J. Appl. Phys., **42**, 5158-5164 (2003). (First Author Supervided by Candidate).
276. Priya, S., J. Ryu, K. Uchino, C. Ahn and S. Nahm, “Introduction of Combinatory Characteristics by Relaxor Modification of Pb(Zr_{0.5}Ti_{0.5})O₃,” Appl. Phys. Lett., **83**, 5020-5022 (2003). (First Author Supervided by Candidate).
277. Cagatay, S., B. Koc and K. Uchino, "A 1.6 mm Metal Tube Ultrasonic Motor," IEEE Trans.- UFFC, **50**(7), 782-786 (2003). (First Author Supervided by Candidate).
278. Manuspiya, S., P. Laoratanakul and K. Uchino, "Integration of a Piezoelectric Transformer and an Ultrasonic Motor," Ultrasonics, **41**(2), 83-87 (2003). (First Author Supervided by Candidate).
279. Cagatay, S., B. Koc, P. Moses and K. Uchino, “A Piezoelectric Micromotor with a Stator of $\phi = 1.6$ mm and $l = 4$ mm Using Bulk PZT,” Jpn. J. Appl. Phys. **43** (4A), 1429-1433 (2004). (First Author Supervided by Candidate).
280. Uchino, K., “Editorial: 5th ICIM Proceedings,” Materials Tech., **19** (2), 69 (2004).
281. Gao, Y. and K. Uchino, “Development of High Power Piezoelectrics with Enhanced Vibration Velocity,” J. Materials Tech., **19** (2), 90-98 (2004). (First Author Supervided by Candidate).
282. Ezaki, T., S. Manuspiya, P. Moses, K. Uchino and A. Vazquez Carazo, “Piezoelectric Transformers for A High Power Module,” J. Materials. Tech., **19** (2), 79-83 (2004). (First Author Supervided by Candidate).
283. Priya S., S. Ural, H. W. Kim, K. Uchino and T. Ezaki, “Multilayered Unipoled Piezoelectric Transformers”, Jpn. J. Appl. Phys., **43**, 3503-3510 (2004). (First Author Supervided by Candidate).
284. Dong, S., S. Wang, L. Li and K. Uchino, “Frictional Noise and Noise Restraint of the Piezoelectric-Ultrasonic Motor,” J. Intelligent Mater. Systems and Structures, **15** (6), 471-478 (2004). (First Author Supervided by Candidate).

285. Priya S., H. W. Kim and K. Uchino, "Low TCF composition in $\text{Pb}(\text{Zr,Ti})\text{O}_3 - \text{Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ System," *J. Am. Ceram. Soc.*, **87**, 1907–1911 (2004). (First Author Supervided by Candidate).
286. Kim, H. -W., A. Batra, S. Priya, K. Uchino, D. Markley, R. E. Newnham and H. F. Hofmann, "Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic Environment," *Jpn. J. Appl. Phys.*, **43** (9A) 6178-83 (2004). (First Author Supervided by Candidate).
287. Uchino, K., S. Cagatay, B. Koc, S. Dong, P. Bouchilloux and M. Strauss, "Micro Piezoelectric Ultrasonic Motors," *J. Electroceramics*, **13**, 393-401 (2004). (Principal Author).
288. Dong, S., J. Zhang, H. W. Kim, M. T. Strauss, K. Uchino, and D. Viehland, "Flexural traveling wave excitation based on shear-shear mode", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **51**, No. 10, 1240-46, (2004). (First Author Supervided by Candidate).
289. Du, X. H., Q. M. Wang and K. Uchino, "An Accurate Method for the Determination of Complex Coefficients of Single Crystal Piezoelectric Resonators I: Theory," *IEEE Trans. UFFC*, **51**, No. 2, 227-237 (2004). (First Author Supervided by Candidate).
290. Du, X. H., Q. M. Wang and K. Uchino, "An Accurate Method for the Determination of Complex Coefficients of Single Crystal Piezoelectric Resonators II: Design of Measurement and Experiments," *IEEE Trans. UFFC*, **51**, No. 2, 238-248 (2004). (First Author Supervided by Candidate).
291. Ahn, Cheol-Woo, Sahn Nahm, Jungho Ryu, Kenji Uchino, Seok-Jin Yoon, Soon-Jong Jung and Jae-Sung Song, "Effects of CuO and ZnO Additives on Sintering Temperature and Piezoelectric Properties of $0.41\text{Pb}(\text{Ni}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.36\text{PbTiO}_3-0.23\text{PbZrO}_3$ Ceramics," *Jpn. J. Appl. Phys.* **43**(1), pp. 205 (2004).
292. Kim, H. W., S. Priya, K. Uchino and R. E. Newnham, "Piezoelectric Energy Harvesting under High Pre-stressed Cyclic Vibrations", *Journal of Electroceramics*, **15**, 27-34 (2005). (First Author Supervided by Candidate).
293. Scrymgeour, D. A., B. Koc, L. Tian, M. W. Gentzel, K. Uchino and V. Gopalan, "Hybrid Electrooptic and Piezoelectric Laser Beam Steering in Two Dimensions," *J. Lightwave Tech.*, **23**, No. 9, 2772-77 (2005). (First Author Supervided by Candidate).
294. Ahn, C.-W., H.-C. Song, S.-H. Park, S. Nahm, K. Uchino, S. Priya, H.-G. Lee and N.-K. Kang, "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", *Jpn. J. Appl. Phys.*, Vol. **44**, No. 3, pp. 1314-1321 (2005). (First Author Supervided by Candidate).

295. Ahn, C. -W., H.-C. Song, S. Nahm, S.-H. Park, K. Uchino, S. Priya, H.-G. Lee and N.-K Kang, "Effect of MnO₂ on the Piezoelectric Properties of (1-x)(Na_{0.5}K_{0.5})NbO₃-xBaTiO₃ Ceramics", *Jpn. J. Appl. Phys.*, Vol. **44**, No. 44, pp. L1361-L1364 (2005).
296. Uchino, K., "Big Advances in Small Devices," *J. Medical Device Developments*, p. 62-64 (2005). (Principal Author).
297. Priya, S., A. Ando and K. Uchino, "Nonlead Perovskite Piezoelectric Materials", *Ceramic Trans. – Development in Dielectric Materials and Electronic Devices*, 223 – 233 (2005).
298. Uchino, K., "Piezoelectric Actuators 2004 – Materials, Design, Drive/Control, Modeling and Applications," *J. Science Faculty of Chiang Mai Univ.-2005*, **32** (3), 207-222 (2006).
299. Priya, S., H.-W. Kim, S. Ural and K. Uchino, "High Power Universal Piezoelectric Transformer," *IEEE Trans. - UFFC*, **53** (4), 810-816 (2006). (First Author Supervised by Candidate).
300. Uchino, K., "Piezoelectric Actuators- Development History and the Future," *J. Mater. Integration*, **19**, No. 3, 1-12 (2006). (Principal Author).
301. Uchino, J. H. Zheng, Y. H. Chen, X. H. Du, J. Ryu, Y. Gao, S. Ural, S. Priya and S. Hirose, "Loss Mechanisms and High Power Piezoelectrics," *J. Materials Science, Special Issue on Frontiers of Ferroelectricity*, Springer, **41**, 217-228 (2006). (Principal Author).
302. Park, S. -H., S. Ural, C.-W. Ahn, S. Nahm and K. Uchino, "Piezoelectric Properties of the Sb-, Li- and Mn-substituted Pb(Zr_xTi_{1-x})O₃-Pb(Zn_{1/3}Nb_{2/3})O₃-Pb(Ni_{1/3}Nb_{2/3})O₃ Ceramics for High Power Applications", *Jpn. J. Appl. Phys.*, **45**, No. 4A, 2667-2673 (2006). (First Author Supervised by Candidate)
303. Kim, H. W., S. Priya, and K. Uchino, "Modeling of Piezoelectric Energy Harvesting Using Cymbal Transducers" *Japan. J. Appl. Phys.* **45**(7), 5836-5840 (2006). (First Author Supervised by Candidate).
304. Gao, Y., K. Uchino and D. Viehland, "Time Dependence of the Mechanical Quality Factor in 'Hard' Lead Zirconate Titanate Ceramics: Development of an Internal Dipolar Field and High Power Origin," *Jpn. J. Appl. Phys.*, **45** (12), 9119-9124 (2006). (First Author Supervised by Candidate).
305. Park, H. -Y., C. -W. Ahn, H. -C. Song, J. -H. Lee, S. Nahm, K. Uchino, H. -G. Lee, H. -J. Lee, "Microstructure and Piezoelectric Properties of 0.95(Na_{0.5}K_{0.5})NbO₃-0.05BaTiO₃," *J. Appl. Phys. Lett.*, **89**, 062906 (2006). (First Author Supervised by Candidate)

306. Uchino, K., "Nice Little Movers," Medical Device Developments, Vol. 1 (2006). (Principal Author).
307. Dong, S., K. Uchino, L. Li and D. Viehland, "Analytical Solutions for the Transverse Deflection of a Piezoelectric Circular Axisymmetric Unimorph Actuators," IEEE Trans. – UFFC, **54** (6), 1240-1249 (2006). (First Author Supervided by Candidate).
308. Ahn, C. –W., H.-C. Song, S. Nahm, S. Priya, S.-H. Park, K. Uchino, H.-G. Lee and H.-J Lee, "Effect of ZnO and CuO on the Sintering Temperature and Piezoelectric Properties of a Hard Piezoelectric Ceramic", J. Am. Ceram. Soc., **89** (3), 921-925 (2006). (First Author Supervided by Candidate).
309. Park, Hwi-Yeol, Cheol-Woo Ahn, Hyun-Cheol Song, Jong-Heun Lee, Sahn Nahm, Kenji Uchino, Hyeung-Gyu Lee and Hwack-Joo Lee, "Microstructure and piezoelectric properties of 0.95(Na0.5K0.5)NbO3-0.05BaTiO3 ceramics", Appl. Phys. Lett **89** 062906 (2006). (First Author Supervided by Candidate).
310. Kim, H.-W., S. Priya, H. Stephanau and K. Uchino, "Consideration of Impedance Matching Techniques for Efficient Piezoelectric Energy Harvesting," IEEE Trans.- UFFC, **54** (9), 1851-1859 (2007). (First Author Supervided by Candidate).
311. Ahn, Cheol-Woo, Hwi-Yeol Park, Sahn Nahm, Kenji Uchino, Hyeung-Gyu Lee, and Hwack-Joo Lee, "Structural variation and piezoelectric properties of 0.95(Na0.5K0.5)NbO3--0.05BaTiO3 ceramics", Sensors and Actuators, **A 136**, 255-260 (2007). (First Author Supervided by Candidate).
312. Song, Hyun-Cheol, Kyung-Hoon Cho, Hwi-Yeol Park, Cheol-Woo Ahn, Sahn Nahm, Kenji Uchino Seung-Ho Park, and Hyeung-Gyu Lee, "Microstructure and Piezoelectric Properties of (1-x)(Na0.5K0.5)NbO3-xLiNbO3 Ceramics", J. Am. Ceram. Soc., **90** [6] 1812-.1816 (2007). (First Author Supervided by Candidate).
313. Cho, Kyung-Hoon, Hwi-Yeol Park, Cheol-Woo Ahn, Sahn Nahm, Kenji Uchino, Seung-Ho Park, Hyeung-Gyu Lee, and Hwack-Joo Lee, "Microstructure and Piezoelectric Properties of 0.95(Na0.5K0.5)NbO3-0.05SrTiO3 Ceramics", J. Am. Ceram. Soc., **90** [6] 1946-.1949 (2007). (First Author Supervided by Candidate).
314. Gao, Y., K. Uchino and D. Viehland, "Domain Wall Release in 'Hard' Piezoelectrics under Continuous Large Amplitude AC Excitation," J. Appl. Phys., **101** [11] 114110 (2007). (First Author Supervided by Candidate).
315. Gao, Y., K. Uchino and D. Viehland, "Effects of Thermal and Electrical History on 'Hard' Piezoelectrics: A Comparison of Internal Dipolar Fields and External DC Bias," J. Appl. Phys., **101** [5] 054109 (2007). (First Author Supervided by Candidate).

316. Dong, S., P. Bouchilloux, X. Du and K. Uchino, "Ring-Type Uni/Bi-morph Piezoelectric Actuators," J. Intelligent Materials Systems and Structures. [submitted] (First Author Supervised by Candidate)
317. Priya S. and K. Uchino, "Low Temperature Sintering of High Power Composition in PZT-PZN System", J. Electroceramics [Submitted]. (First Author Supervised by Candidate).
318. Priya, S., P. Moses and K. Uchino, "High Power Measurement on Mn-Substituted $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals", Jpn. J. Appl. Phys. (2006) [Submitted]. (First Author Supervised by Candidate).
319. Park, S. -H., J. Agraz, S. Tuncdemir, Y. -D. Kim, R. E. Eitel, A. Baker, C. A. Randall, and K. Uchino, "Delta-Shaped Piezoelectric Ultrasonic Motor for 2-Dimensional Positioning," Jpn. J. Appl. Phys. (2008) [In Press]. (First Author Supervised by Candidate).
320. Tuncdemir, S., S.O. Ural and K. Uchino, "A Novel Microgripper Mimicking Finger Snapping for Easy Release", Jpn. J. Appl. Phys. (2007) [Submitted]. (First Author Supervised by Candidate).
321. S.-H. Park, R. Eitel, A. Baker, C. Randall, K. Uchino, "LTCC cofired piezoelectric ultrasonic motor", in preparation (2008)
322. S.-H. Park, R. Eitel, A. Baker, C. Randall, K. Uchino, "Integrated optical fiber alignment package", in preparation (2008)
323. S.-H. Park, H.-W. Kim, A. Rajapurkar, Y. Zhuang, K. Uchino, "Energy harvesting with flexible piezoelectric element", in preparation (2008)
324. Tuncdemir S., S. O. Ural and K. Uchino, "Piezoelectric Microgripper with High Dexterity for Easy Release", Smart Materials and Structures (Submitted December 5th 2007) [SMS/266972/PAP] [in progress]
325. Tuncdemir S., Y. Zhuang, S. O. Ural and K. Uchino, "Modeling and Characterization of Brass-Tube Linear Ultrasonic Motor with Inertial Drive" (in preparation).
326. Tuncdemir S., Y. Zhuang, S. O. Ural and K. Uchino, "Design of Two Degree of Freedom 'Rotary and Linear' Ultrasonic Motor with Metal Tube" (in preparation).
327. Yuan Zhuang, Aditya Rajapurkar, Seyit Ural, Kenji Uchino, "Loss Mechanism and Quality Factor for Piezoelectric Ceramics at Anti-resonance Frequency," JJAP.

B. PROCEEDINGS ETC.

1. Uchino, K., K. Hoshi and S. Nomura, "Dielectric and Magnetic Properties in the Solid Solution System $\text{Pb}(\text{Fe}_{2/3}\text{W}_{1/3})\text{O}_3 - \text{Pb}(\text{Mn}_{1/2}\text{W}_{1/2})\text{O}_3$," Proc. 1st. Meeting on Ferroelectric Mater. Appl., page 321 (Kyoto, 1977).(Principal Author)
2. Ohuchi, H., K. Nakano, K. Uchino, H. Endoh and H. Fukumoto, "Highspeed Electro-Hydraulic Servovalves Using Electrostrictive Ceramic PMN Actuators," Proc. Int'l Symp. Fluid Control & Measurement, Edited by M. Harada, Pergamon Press, 415-420 (1985).(Equal Contributions by Authors)
3. Uchino, K., "Piezoelectric and Electrostrictive Actuators," Proc. 6th IEEE Int'l Symp. Appl. of Ferroelectrics, 610-618 (1986).(Principal Author)
4. Inoue, M., T. Sada and K. Uchino, "Photodriven Relay Using PLZT Ceramics," Proc. 6th IEEE Int'l Symp. Appl. of Ferroelectrics, 16-19 (1986).(First Author Supervised by Candidate)
5. Sugiyama, S. and K. Uchino, "Pulse Driving Method of Piezoelectric Actuators," Proc. 6th IEEE Int'l Symp. Appl. of Ferroelectrics, 637-640 (1986).(First Author Supervised by Candidate)
6. Uchino, K., "Grain Size Dependence of Actuator Characteristics in Electrostrictive PLZT," Proc. Int'l Inst. for Sci. of Sintering (IISS) Symposium, (Tokyo, Nov. 4-6, Elsevier Applied Science, 1987).(Principal Author)
7. Uchino, K., "Shape Memory Effect Associated with the Forced Phase Transition in Antiferroelectrics," Proc. MRS Int'l. Mtg. on Adv. Mats. 9, 489-503 (1989). (Principal Author)
8. Uchino, K., E. Sadanaga, K. Oonishi and H. Yamamura, "Particle/Grain Size Dependence of Ferroelectricity," Ceramic Transactions, Vol. 8 Ceramic Dielectrics 107-115 (1990).(Principal Author)
9. Uchino, K., "Photostrictive Actuators," Proc. IEEE Ultrasonic Symp.'90, 721-723 (1991).(Principal Author)
10. Uchino, K., "Recent Topics in Ceramic Actuators," Proc. Intl. Symp. Appl. Ferroelectrics '90, 153-158 (1991).(Principal Author)
11. Sugawara, Y. and K. Uchino, "Giant Electric-Field-Induced Strain in Lead Zirconate Based Antiferroelectrics," Proc. Int'l. Symp. Appl. Ferroelectrics '90, 328-329 (1991).(First Author Supervised by Candidate)
12. Oh, K.Y., A. Furuta and K. Uchino, "Development and Application of Shape Memory Ceramic Actuators," Proc. Int'l. Symp. Appl. Ferroelectrics '90, 525-527 (1991).(First Author Supervised by Candidate)

13. Furuta, A., K.Y. Oh and K. Uchino, "Mechanical Clamper Using Shape Memory Ceramics," Proc. Int'l. Symp. Appl. Ferroelectrics '90, 528-529 (1991).(First Author Supervised by Candidate)
14. Yamakawa, T. and K. Uchino, "Particle Size Dependence of Ferro- and Antiferroelectricity," Proc. Int'l. Symp. Appl. Ferroelectrics '90, 610-612 (1991).(First Author Supervised by Candidate)
15. Hagimura, A., M. Nakajimma, K. Miyata and K. Uchino, "Impurity Doping Effect on Electric Field Induced Strains in (Pb, Ba)(Zr, Ti)O₃," Proc. Int'l. Symp. Appl. Ferroelectrics '90, 185-188 (1991).(First Author Supervised by Candidate)
16. Uchino, K. and M. Sumita, "Mechanical Damper Utilizing Piezoelectric Composites," "Nissan Science Foundaiton Research Projects in Review 14, 131-134 (1991).(Principal Author)
17. Oh, K. Y., A. Furuta and K. Uchino, "Field Induced Strains in Antiferroelectrics," Proc. IEEE Ultrasonic Symp.'90, 743-746 (1991).(First Author Supervised by Candidate)
18. Ujiie, R. and K. Uchino, "Dynamical Domain Observation in Relaxor Ferroelectrics," Proc. IEEE Ultrasonic Symp.'90, 725-728 (1991).(First Author Supervised by Candidate)
19. Arai, M., Y. Sugawara and K. Uchino, "AE Measurement in Ferroelectrics," Proc. IEEE Ultrasonic Symp.'90, 1197-1200 (1991).(First Author Supervised by Candidate)
20. Uchino, K., "Piezoelectric Ceramics in Smart Actuators and Systems," Proc. 1st European Conf. on Smart Structures and Materals, 177-180 (1992).(Principal Author)
21. Uchino, K., "Applications of Piezoelectric Ceramics in Smart Actuators and Systems," Proc. Conf. on Active Materials and Adaptive Structure, IOP Pub. 229-230 (1992).(Principal Author)
22. Uchino, K. and A. Furuta, "Destruction Mechanism of Multilayer Ceramic Actuators," Proc. 8th International Symp. on Appl. Ferroelectrics, 195-198 (1992).(Principal Author)
23. Sugawara, Y., K. Onitsuka, S. Yoshikawa, Q. C. Xu, R. E. Newnham and K. Uchino, "Metal-Ceramic Composite Actuators," Proc. ADPA/AIAA/SPIE Conf. on Active Materials and Adaptive Structures, IOP Pub., 143-148 (1992).(First Author Supervised by Candidate)

24. Uchino, K., "Recent Development of Piezoelectric Actuators for Adaptive Structures," Proc. 3rd Int'l Conf. Adaptive Structures, p.245-257, Technomic Pub., PA (1993).(Principal Author)
25. Uchino, K., "Relaxor Ferroelectric Devices," *Ferroelectrics*, 151 (Proc. 8th Int'l Mtg. Ferroelectricity), p.321-330 (1994).(Principal Author)
26. Tressler, J. F., Q. C. Xu, S. Yoshikawa, K. Uchino and R. E. Newnham, "Composite Flexensional Transducers for Sensing and Actuating," *Ferroelectrics*, Vol 156 (Proc. 8th Int'l Mtg. Ferroelectricity), 67-72 (1994).(First Author Supervised by Candidate)
27. Uchino, K. and S. Y. Chu, "Photostriction and Its Applications," Proc. PacRim Amer. Ceram. Soc., *Ferroic Materials*, 287-293 (1994).(Principal Author)
28. Uchino, K. and H. Aburatani, "Destruction Detection Techniques for Safety Piezoelectric Actuator Systems," Proc. 2nd Int'l Conf. Intelligent Materials p.1248-56 (1994).(Principal Author)
29. Uchino, K., "New Piezoelectric Devices for Smart Actuator/Sensor Systems," Proc. 4th Int'l Conf. Electronic Ceramics & Appl., p.179-191 (1994).(Principal Author)
30. Oh, K. Y., K.Uchino and L.E.Cross, "Electrical Properties and Domain Structures in Ba(Ti,Sn)O₃ Ceramics," Proc. 9th Int'l Symp. Appl. Ferroelectrics p.218-220 (1995). (First Author Supervised by Candidate)
31. Takahashi, S., S.Hirose, K.Uchino and K.Y.Oh, "Electro-Mechanical Characteristics of Lead-Zirconate-Titanate Ceramics under Vibration-Level Change," Proc. 9th Int'l Symp. Appl. Ferroelectrics p.377-382 (1995). (Contributing Author)
32. Uchino, K., "Piezoelectric Actuators/Ultrasonic Motors -- Their Developments and Markets," Proc. 9th Int'l Symp. Appl. Ferroelectrics p.319-324 (1995).(Principal Author)
33. Aburatani, H., K. Uchino, A. Furuta and Y. Fuda,"Destruction Mechanism and Destruction Detection Technique for Multilayer Ceramic Actuators," Proc. 9th Int'l Symp. Appl. Ferroelectrics p.750-752 (1995).(First Author Supervised by Candidate)
34. Chu, S. Y. and K. Uchino, "Photo-Acoustic Devices Using (Pb,La)(Zr,Ti)O₃ Ceramics," Proc. 9th Int'l Symp. Appl. Ferroelectrics p.743-745 (1995).(First Author Supervised by Candidate)

35. Hirose, S., S. Takahashi, K. Uchino, M. Aoyagi and Y. Tomikawa, "Measuring Methods for High-Power Characteristics of Piezoelectric Materials," Prof. MRS, '94 Fall Mtg., Vol.360, p.15-20 (1995). (Contributing Author)
36. Takahashi, S., Y. Sasaki, S. Hirose and K. Uchino, "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," Proc. MRS '94 Fall Mtg., Vol.360, p.305-310 (1995). (Contributing Author)
37. Uchino, K., "Piezoelectric Actuators/Ultrasonic Motors: Their Developments and Markets," Ferroelectricity Newsletter, Vol.3, No.2, p.2-5 (1995). (Principal Author)
38. Uchino, K., "Advances in Ceramic Actuator Materials," Mater. Let., Vol.22, 1-4 (1995). (Principal Author)
39. Hirose, S., M. Aoyagi, Y. Tomikawa, S. Takahashi and K. Uchino, "High-Power Characteristics at Antiresonance Frequency of Piezoelectric Transducers," Proc. Ultrasonic Int'l, p.1-4 (1995).(Contributing Author)
40. Uchino, K., "Photostrictive Actuators and "Photophones"," Proc. Int'l Symp. Microsystems, Intelligent Mater. and Robots, p.193-196 (1995).(Principal Author)
41. Takahashi, S., S. Hirose and K. Uchino, "High-Power Piezoelectric Ceramics for Actuator Usage," Technical Report of IEICE, US-95-23, EMD 95-19, DPM95-31 (1995-07), Inst. Electron. Inf. Commun. Eng., p.23 (1995).(Contributing Author)
42. Mulvihill, M. L., L. E. Cross and K. Uchino, "Dynamic Motion of the Domain Configuration in Relaxor Ferroelectric Single Crystals as a function of Temperature and Electric Field," Proc. 8th European Mtg. Ferroelectrics, Ferroelectrics, Vol. 186, 325-328 (1996). (First Author Supervised by Candidate)
43. Tressler, J. F., J. F. Fernandez, K. Uchino and R. E. Newnham, "Capped Ceramic Hydrophones," Proc. Ultrasonic Symp., Edit. M. Levy, S. C. Schneider and B. R. McAvoy, Piscataway, NJ, IEEE, p.897-900 (1995).(First Author Supervised by Candidate)
44. Dogan, A., J. F. Fernandez, K. Uchino and R. E. Newham, "New Piezoelectric Composite Actuator Designs for Displacement Amplification," Proc. EuroCeram. 95 (1995) (in press).(First Author Supervised by Candidate)
45. Takahashi, S., S. Hirose and K. Uchino, "Materials for Piezoelectric Actuators," Proc. Mtg. Ferroelectric Mater. and Appl., Kyoto (1995) (in press).(Contributing Author)

46. Uchino, K., "Recent Developments in Ceramic Actuators, "Proc. Workshop on Microsystem Technologies in the USA and Canada, Germany, mst news, special issue, VDI/VDE, p.28-p.36 (1996).(Principal Author)
47. Poosanaas, P., A. Dogan, A. V. Prasad Rao, S. Komarneni and K. Uchino, "Photostrictive Properties of PLZT Ceramics Derived from A Sol-Gel Process," Proc. 6th Annual Workshop on Sci. and Tech. Exchange between Thai Professionals in North America and Thailand, Edmonton, Alberta, Canada (1996).(First Author Supervised by Candidate)
48. Mulvihill, M. L., L. E. Cross, K. Uchino and W. Cao, "Domain Related Phase Transitions in Lead Zinc Magnesium Niobate Relaxor Ferroelectric Single Crystals," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P2-51, East Brunswick, NJ, August (1996).(First Author Supervised by Candidate)
49. Dogan, A., J. F. Fernandez, K. Uchino and R. E. Newnham, "The "Cymbal" Electromechanical Actuator," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P2-73, East Brunswick, NJ, August (1996).(First Author Supervised by Candidate)
50. Tressler, J. F., W. Cao, K. Uchino and R. E. Newnham, "Ceramic-Metal Composite Transducers for Underwater Acoustic Applications," Proc. 10th Int'l Symp. Appl. Ferroelectrics, p.561-564, East Brunswick, NJ, August (1996).(First Author Supervised by Candidate)
51. Dogan, A., J. F. Fernandez, K. Uchino and R. E. Newnham, "The "Cymbal" Electromechanical Actuator," Proc. 10th Int'l Symp. Appl. Ferroelectrics, p.213-216, East Brunswick, NJ, August (1996).(First Author Supervised by Candidate)
52. Uchino, K., "Reliability of Ceramic Actuators," Proc. 10th Int'l Symp. Appl. Ferroelectrics, p.763-766, East Brunswick, NJ, August (1996).(Principal Author)
53. Aburatani, H., K. Uchino, "Acoustic Emission (AE) Measurement in Piezoelectric Ceramics," Proc. 10th Int'l Symp. Appl. Ferroelectrics, p.871-873, East Brunswick, NJ, August (1996).(First Author Supervised by Candidate)
54. Fernandez, A. Dogan, J. T. Fielding, K. Uchino and R. E. Newnham, "Temperature Dependence of New Design Ceramic-Metal Piezocomposite Actuators," Proc. 4th Euro Ceramics, Vol.5, 133-138 (1996).(First Author Supervised by Candidate)
55. Uchino, K., "High Electromechanical Coupling Piezoelectrics - How High Energy Conversion Rate is Possible?-", Mat. Res. Soc. Symp. Proc. Vol.459, p.3-14 (1997).(Principal Author)
56. Aburatani, H. and K. Uchino, "The Application of Acoustic Emission (AE) Method for Ferroelectric Devices and Materials," Proc. 8th US-Japan Seminar on Dielectrics, Boston, p.28-31 (1997).(First Author Supervised by Candidate)

57. Uchino, K., "Compact Piezoelectric Ultrasonic Motors," J. Med. Ultrasonics Vol.24 (No.9), p.1191-92 (1997).(Principal Author)
58. Poosanaas, P., Dogan, A., Thakoor, S., and Uchino, K., "Dependence of Photostriction on Sample Thickness and Surface Roughness for PLZT Ceramics", Proc. 1997 IEEE Ultrasonics Symposium, Toronto Marriott Eaton Centre, Toronto, Ontario, Canada, (October 5-8, 1997).(First Author Supervised by Candidate)
59. Tonooka, K., P. Poosanaas and K. Uchino, "Mechanism of the Bulk Photovoltaic Effect in Ferroelectrics," Proc. 5th SPIE Mtg., San Diego (1998).[in press].(Contributing Author)
60. Thakoor S., P. Poosanaas, J. M. Morookian, A. Yavrovian, L. Lowry, N. Marzwell, J. Nelson, R. R. Neurgaonkar and K. Uchino, "Optical Microactuation in Piezoceramics," Proc. 5th SPIE Mtg., San Diego (1998).[in press].(Contributing Author)
61. Belegundu, U., X. H. Du and K. Uchino, "In-Situ Observation of Domain Orientation in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," Proc. 5th Int'l Symp. Ferroic Domains and Mesoscopic Structures, University Park, PA, April (1998). (First Author Supervided by Candidate).
62. Uchino, K., and P. Poosanaas, "Photostriction in PLZT and Its Applications," Proc. CIMTEC '98, Florence, Italy (June 14-19, 1998).
63. Atherton, P. D. and K. Uchino, "New Developments in Piezo Motors and Mechanisms," Proc. 6th Int'l Conf. on New Actuators (Actuator 98), Bremen, Germany, p.164-169 (June 17-19, 1998).
64. Poosanaas, P., A. Dogan, S. Thakoor and K. Uchino, "Thick-Film Type Photostrictive Actuators," Proc. 6th Int'l Conf. on New Actuators (Actuator 98), Bremen, Germany, p.345-348 (June 17-19, 1998). (First Author Supervided by Candidate).
65. Dogan, A., P. Poosanaas, and K. Uchino, "Surface Characteristics and Photostrictive Behavior of PLZT Ceramics," Proc. Ceram. Congress IV, Eskisehir, Turkey (September 22-25, 1998). (First Author Supervided by Candidate).
66. Uchino, K., and P. Poosanaas, "Photostriction in PLZT and Its Application," 4th International Conference on Intelligence Materials (ICIM'98), Makuhari, Japan, pp. 68-69 (1998).
67. Koc, B., Y. Xu and K. Uchino, "Roto-Linear Ultrasonic Motors," Proc. 6th Int'l Conf. on New Actuators (Actuator 98), Bremen, Germany, p.349-352 (June 17-19, 1998). (First Author Supervided by Candidate).

68. Uchino, K., "New Trend in Ceramic Actuators," Proc. 6th Int'l Aerospace Symp. '98, Nagoya, Japan, p.S1-2, 1-10 (July 14-15, 1998).
69. Koc, B. Y. Xu and K. Uchino, "Composite Ultrasonic Motors", Proc. IEEE Ultrasonic Symposium, Sendai, Japan, (October 5-8, 1998), p. 687 -690 (1998). (First Author Supervised by Candidate).
70. Uchino, K., and H. Aburatani, "Field Induced Acoustic Emission in Ferroelectric Ceramics," Proc. IEEE Ultrasonic Symp., Sendai, Japan (October, 1998), p. 775 - 778 (1998).
71. Belegundu, U., M. Pastor, X. H. Du, L. E. Cross and K. Uchino, "Domain Formation in $0.90\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.10\text{PbTiO}_3$ Single Crystals under the Electric Field along [111] Direction," Proc. IEEE Int'l Ultrasonic Symp., Sendai, Japan (October 5-8, 1998), p. 625 -628 (1998). (First Author Supervided by Candidate).
72. Xu, Y. B. Koc and K. Uchino, "Engineering Chart of Resonance Frequency of PZT Rings at Different Clamping Conditions", 2nd Asian Meeting on ferroelectrics, International, AMF-2, Singapore, December 7-11 (1998). (First Author Supervided by Candidate).
73. Uchino, K and B. Koc, "Compact Ultrasonic Motors", 2nd Asian Meeting on Ferroelectrics (AMF-2), Singapore, December 7-11 (1998).
74. Abothu, I.R., P. Poosanaas, S. Komarneni, Y. Ito, and K. Uchino, "Nanocomposite Versus Monophasic Sol-Gel Processing of PLZT Ceramics," Proceedings in Asian Meeting on Ferroelectrics (AMF2), Singapore, (December 8-11, 1998). (Contributing Author)
75. Abothu, I.R., Y. Ito, P. Poosanaas, S. Kalpat, S. Komarneni, and K. Uchino, " Sol-Gel Processing of Piezoelectric Thin Films, " Proceedings in Asian Meeting on Ferroelectrics (AMF2), Singapore, (December 8-11, 1998). (Contributing Author)
76. Liu, S.F., I. R. Abothu, S. Komarneni, P. Poosanaas, D-S. Paik, Y. Ito, and K. Uchino, " PLZT Ceramics Prepared From Conventional and Microwave Hydrothermal Powders, " Proceedings in Asian Meeting on Ferroelectrics (AMF2), Singapore, (December 8-11, 1998). (Contributing Author)
77. Uchino, K., "Functional and Smart Materials: Structural Evolution and Structure Analysis -Book Review," Physics Today, Nov. pp.70-71 (1998).
78. Uchino, K., and S. Takahashi, "New Trend in Multilayer Ceramic Actuators," Proc. Int'l Symp. Multilayer Electronic Ceramic Devices, Amer. Ceram. Soc. '98;

- Ceramic Trans. Vol. 97, Multilayer Electronic Ceramic Devices, p.305 - 318 (1999).
79. Uchino, K., and S. Takahashi, "New Trend in Multilayer Ceramic Actuators," Proc. Int'l Symp. Dielectric Ceramics, Amer. Ceram. Soc. '98; Ceramic Trans. Vol. 100, Dielectric Ceramic materials, p.455 - 468 (1999).
 80. Uchino, K., "Recent Trend of Piezoelectric Actuator Developments," Proc. Int'l Symp. Micromechatronics and Human Science '99, p.3-9, Nagoya, Japan, Nov. 23-26 (1999).
 81. Koc, B., and K. Uchino, "Disk Type Piezoelectric Transformer with Crescent Shape Input Electrodes," Proc. NATO- Advanced Research Workshop: Piezoelectric Materials: Advance in Science, Technology and Applications, (Predeal, Romania, May 24-27, 1999, Kluwer Academic Publ., p.375-382 (2000). (First Author Supervided by Candidate).
 82. Uchino, K., and B. Koc, "Compact Piezoelectric Ultrasonic Motors," Proc. NATO- Advanced Research Workshop: Piezoelectric Materials: Advance in Science, Technology and Applications, (Predeal, Romania, May 24-27, 1999, Kluwer Academic Publ., p.309-320 (2000).
 83. Dogan, A., K. Uchino and R. E. Newnham, "Flextensional Composite Transducers: Designing, Fabrication and Application," Proc. NATO- Advanced Research Workshop: Piezoelectric Materials: Advance in Science, Technology and Applications, (Predeal, Romania, May 24-27, 1999, Kluwer Academic Publ., p.357-374 (2000). (First Author Supervided by Candidate).
 84. Uchino, K., and J. Zheng, Y. H. Chen, X. Du and S. Hirose, "Loss Mechanisms in Piezoelectrics and Resonance/ Antiresonance," Proc. 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Electronic Ceramic Materials and Devices, (Indianapolis, April 25 – 28, 1999), p.79-100 (2000).
 85. Uchino, K., and H. Aburatani, "Field Induced Acoustic Emission in Ferroelectric Ceramics," Proc. 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Electronic Ceramic Materials and Devices, SE-56, (Indianapolis, April 25 – 28, 1999), (2000).
 86. Kalpat, S., X. Du, I. R. Abothu, A. Akiba, H. Goto, S. Trolier-McKinstry and K. Uchino, "Dielectric Properties of Highly Oriented Lead Zirconate Titanate Thin Films Prepared by Reactive RF-Sputtering," Symp. LL Proc., Mater. Res. Soc. Fall Mtg. '99, (LL.1.3, Boston, Nov. 29-Dec.3, 1999), Vol. **604**, 3-8 (2000). (First Author Supervided by Candidate).
 87. Uchino, K., J. Zheng, Y. H. Chen, X. Du, S. Hirose and S. Takahashi, "Loss Mechanisms in Piezoelectrics –Extrinsic and Intrinsic Losses--," Mater. Res. Soc. Fall Mtg. '99, (LL.1.6, Boston, Nov. 29-Dec.3, 1999), Vol.**604**, 25-31 (2000).

88. Belegundu, U., X. Du and K. Uchino, "Switching Current in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," Symp. LL Proc., Mater. Res. Soc. Fall Mtg. '99, (LL.1.9, Boston, Nov. 29-Dec.3. 1999), Vol.604, 39-44 (2000). (First Author Supervided by Candidate).
89. Bouchilloux, P., B. Koc and K. Uchino, "New Concept for Resonant Longitudinal-Shear Ultrasonic Motor," Symp. LL Proc., Mater. Res. Soc. Fall Mtg. '99, (LL.2.10, Boston, Nov. 29-Dec.3, 1999), Vol.604, 71-78 (2000). (First Author Supervided by Candidate).
90. Chen, Y. H., S. Hirose, D. Viehland and K. Uchino, "Doping Effects in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Ceramics for High Power Transduction Applications," Mater. Res. Soc. Fall Mtg. '99, (LL.5.8, Boston, Nov. 29-Dec.3, 1999), Vol.604, 215-220 (2000). (First Author Supervided by Candidate).
91. Koc, B., S. Alkoy and K. Uchino, "A Circular Piezoelectric Transformer with Crescent Shape Input Electrodes," Proc. IEEE Ultrasonic Symp., Lake Tahoe, Nevada, Oct. 17-21 (1999). (First Author Supervided by Candidate).
92. Uchino, K., "Recent Trend of Piezoelectric Actuator Developments –Material, Design and Drive Technique Related Issues--," Proc. Actuator 2000 (7th Int'l Conf. New Actuators, June 19-21, 2000), p.34-39 (2000).
93. Koc, B., J. F. Tressler and K. Uchino, "A Miniature Piezoelectric Rotary Motor Using Two Orthogonal Bending Modes of a Hollow Cylinder," Proc. Actuator 2000 (7th Int'l Conf. New Actuators, June 19-21, 2000), p.242-245 (2000). (First Author Supervided by Candidate).
94. Uchino, K., B. Koc and S. Dong, "Compact Piezoelectric Ultrasonic Motors," Proc. 5th Euroconf. Appl. Polar Dielectrics, O-1, Jurmala, Latvia, Aug. 27-30 (2000).
95. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators –New Perspective--," Proc. 5th Euroconf. Appl. Polar Dielectrics, O-43, Jurmala, Latvia, Aug. 27-30 (2000).
96. Uchino, K., B. Koc, P. Laoratanakul and A. Vazquez Carazo, "Piezoelectric Transformers –New Perspective--," Proc. 3rd Asian Mtg. Ferroelectrics, D1d.1, Hong Kong, Dec. 12-15 (2000).
97. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators –New Perspective--," Proc. 3rd Asian Mtg. Ferroelectrics, C3p.105, Hong Kong, Dec. 12-15 (2000).

98. Uchino, K., B. Koc and A. V. Carazo, "Piezoelectric Transformers-New Perspective-," Proc. Int'l Conf. Smart Technology Demonstrators & Devices, Edinburgh, UK, Dec. 12-14 (2001).
99. Bouchilloux, P. and K. Uchino, "Application of the Genetic Optimization Method to the Design of Ultrasonic Motors," Proc. SPIE - Int. Soc. Opt. Eng. (USA), Proceedings of the SPIE – Modeling, Signal Processing and Control, vol.4693 (Editor, Vittal S. Rao) p. 547-555 (2002). (First Author Supervided by Candidate).
100. Uchino, K., "Designing Piezoelectric Actuators," Conf. Notes of Piezoelectric Materials for The End Users, Interlaken, Switzerland, Feb. 24-27 (2002).
101. Uchino, K., B. Koc, P. Laoratanakul and A. V. Carazo, "Piezoelectric Transformers-New Perspective-," Conf. Notes of Piezoelectric Materials for The End Users, Interlaken, Switzerland, Feb. 24-27 (2002).
102. Uchino, K., "Piezoelectric Actuators 2002-New Materials, Design and Drive/Control Related Issues," Proc. 8th Int'l Conf. New Actuators, A1.0, p. 33, Bremen, Germany, June 10-12 (2002).
103. Dong, S., H. W. Kim, M. T. Strauss, K. Uchino and D. Viehland, "A Piezoelectric Shear-Shear Mode Ultrasonic Motor," Proc. 8th Int'l Conf. New Actuators, A4.2, p. 126, Bremen, Germany, June 10-12 (2002). (First Author Supervided by Candidate).
104. Uchino, K., "Introduction to Micromechatronics," Proc. CD 5th International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
105. Uchino, K., S. Dong, B. Koc, S. Cagatay, P. Bouchilloux and M. T. Strauss, "Piezoelectric Ultrasonic Micro Motors," Proc. CD 5th International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
106. Uchino, K., "Introduction to Piezoelectric Actuators and Transducers," Proc. CD 5th International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
107. Uchino, K., J. Zheng, Y. H. Chen, X. H. Du, J. Ryu, Y. Gao and S. Hirose, "Loss Mechanisms and High Power Piezoelectrics," Proc. CD 5th International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
108. Uchino, K., "High Power Piezoelectric Transformers-Their Applications to Smart Actuator Systems-," Proc. 8th Japan Int'l SAMPE Symp., Plenary Lecture 4, p. 11, Tokyo, Nov. 18-21 (2003).

109. Uchino, K., S. Cagatay, B. Koc, S. Dong, P. Bouchilloux and M. Strauss, "Micro Piezoelectric Ultrasonic Motors," Proc. 8th Japan Int'l SAMPE Symp., A6., p.397, Tokyo, Nov. 18-21 (2003).
110. Uchino, K. and A. Vazquez Carazo, "High Power Transformers –Their Applications to Smart Actuator Systems-," 6th Int'l Academic Summit Mtg. Proc., p.76-79, Nov. 17-19, Tokyo (2003).
111. Uchino, K. and A. Vazquez Carazo, "High Power Transformers –Their Applications to Smart Actuator Systems-," Proc. 8th Japan Int'l SAMPE Symp., p.11-14, Nov. 18-21, Tokyo (2003).
112. Uchino, K., S. Cagatay, B. Koc., S. Dong, P. Bouchilloux and M. Strauss, "Micro Piezoelectric Ultrasonic Motors," Proc. 8th Japan Int'l SAMPE Symp., p.397-400, Nov. 18-21, Tokyo (2003).
113. Uchino, K. and A. Vazquez-Carazo, "High Power Piezoelectric Transformers- Their Applications to Smart Actuator Systems-," Proc. 6th Int'l Academic Summit, Tokyo, Japan, Nov. 17-19, 2003, p. 76-79 (2004).
114. Uchino, K., "Piezoelectric Actuator 2004," Proc. 1st Piezoelectric Mater. And Appl. In Actuators, p.14, March 29-31, Seoul (2004).
115. Uchino, K., "Piezoelectric Actuators 2004- Materials, Design, Drive/Control, Modeling and Applications," Proc. 9th Int'l Conf. New Actuators, A1.0, p. 38-48, Bremen, Germany, June 14-16 (2004).
116. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Micromotors for Mechatronic Applications," Proc. 9th Int'l Conf. New Actuators, A4.2, p. 132-134, Bremen, Germany, June 14-16 (2004). (First Author Supervided by Candidate).
117. S. Priya, J. Zhang, H. W. Kim, S. Ural and K. Uchino, "Unipoled Piezoelectric Transformers for Automobile Lighting," Proc. 9th Int'l Conf. New Actuators, B8.2, p. 399-403, Bremen, Germany, June 14-16 (2004). (First Author Supervided by Candidate).
118. Kim, H. W., A. Batra, S. Priya, K. Uchino, R. E. Newnham and H. F. Hofmann, "Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic Environment," Proc. 9th Int'l Conf. New Actuators, P119, p. 812-816, Bremen, Germany, June 14-16 (2004). (First Author Supervided by Candidate).
119. Uchino, K., "Piezoelectric Actuators 2004," Proc. 5th Korea-Japan Conference on Ferroelectricity, p. 189, J-01-1, Seoul, Korea, August 18-21 (2004).
120. Uchino, K., S. Priya, S. Ural, A. Vazquez-Carazo and T. Ezaki, "High Power Piezoelectric Transformers –Their Applications to Smart Actuator Systems-,"

- Proc. Symp. Developments in Dielectric Materials and Electronic Devices, Am Ceram Soc. 2004, p. 383-395 (2005).
121. Kim, H. W., A. Batra, S. Priya, K. Uchino, R. E. Newnham and H. F. Hofmann, "Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic Environment," Proc. 7th Int'l Academic Summit, Kaiserslautern, Germany, Oct. 5, 2004, p. 53-62 (2005). (First Author Supervided by Candidate).
 122. Kim, H.-W., K. Uchino and T. Daue, "Energy Harvesting with Flexible Piezoelectric Composites," Proc. CD 9th Japan International SAMPE Symp. & Exhibition, SIT Session 05, Nov. 29th- Dec. 2nd (2005).
 123. Uchino, K., "Piezoelectric Actuators 2006 – Expansion form IT/Robotics to Ecological/Energy Applications", Proc. 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, 2006, A1.0, p. 48-57 (2006).
 124. Kim, H.-W., S. Priya, and K. Uchino, "A New Method of Impedance Adaptation for Piezoelectric Energy Harvesting Using a Cymbal Transducer," Proc. 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, 2006, A5.4, p. 189-192 (2006).
 125. Park, S. -H, Y. –D. Kim, J. Harris, S. Tuncdemir, R. Eitel, A. Baker, C. Randall and K. Uchino, "Low Temperature Co-Fired Ceramic (LTCC) Compatible Ultrasonic Motors," Proc. 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, 2006, B7.3, p. 432-435 (2006).
 126. Ural, S., S. –H. Park, S. Priya and K. Uchino, "High Power Piezoelectric Transformers with Cofired Copper Electrodes- Part I," Proc. 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, 2006, P23, p. 556-558 (2006).
 127. Tuncdemir, S., M. T. Strauss and K. Uchino, "Shear Mode Rotary Type Piezoelectric Micromotor with 1 mm Diameter," Proc. 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, 2006, P39, p. 617-620 (2006).
 128. Park, S.-H., K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Integrated Optical Fiber Alignment Package with Piezoelectric Ultrasonic Motors", Proc. Ceramic Interconnect and Ceramic Microsystems Technologies, Denver CO, US, April (2007).

C. BOOKS

1. Uchino, K., Handbood on Quantum Dynamics (Partial Charge: Chapter 1 - Fundamentals of Quantum Phenomena). Edit. Musha, Suematsu and Takahashi, Morikita Pub. Co., Tokyo (1983).
2. Uchino, K., How to Polish Up Scientific English Papers (Partial Charge: Chapter 3 - Comon Mistakes by Japanese Scientists). Edit. Jpn. Phys. Soc., Maruzen Pub. Co., Tokyo (1984).
3. Uchino, K., Manufacturing Process and Application of Piezoelectric Materials (Partial Charge: Chapter 10 - Electrostrictive Materials). Edit. Shiosaki, CMC Pub. Co, Tokyo (1984).
4. Essentials for Development and Applications of Piezoelectric Actuators. Jpn. Industrial Technology Center, Tokyo (1984).
5. Handbood on Advanced Devices (Partial Charge: Chapter 5 - Electrostrictive Ceramic Devices). Edit. Mizushima, Realize Pub. Co., Tokyo (1985).
6. Introduction to Electronic Ceramics (Partial Charge: Chapter 7 - Electrostrictive Actuators). Edit. K. Okazaki, Morikita Pub. Co., Tokyo (1986).
7. Piezoelectrics/Electrostrictive Actuators. Morikita Pub. Co., Tokyo (1986).
8. Ultrasonic Motors/Actuators (Partial Charge: Chapter 1 - Overview, Chapter 2 - Piezoelectric Materials). Edit. Y. Akiyama, Triceps Co., Tokyo (1986).
9. Evaluation and Control of Functional Materials (Particial Charge: Vol. 2; Chapter 3, Section 5 - Electrostrictive Materials for Actuators). Edit. Ikoma and Shirasaki, Science Forum, Tokyo (1986).
10. Handbood on Electrical Engineering, Version 4 (Partial Charge: Vol. 1, Chapter 5 - Dielectric and Magnetic Materials). Edit. Jpn. Electrical Soc., Ohm Pub. Co., Tokyo (1987).
11. Ceramic Data Book '88 (Partial Charge: Ceramic Actuator). Inst. Industrial Manufacturing Technology, Tokyo (1988).
12. Future Industrial Technology Vol. IV (Partial Charge: Electrostrictive Actuators). Inst. Promotion of Science and Technology, Tokyo (1988).
13. Ceramic Composites (Partial Charge: Chapter 1 - Ceramic Actuators). Edit. Jpn. Ceramic Soc., Baihukan Pub. Co., Tokyo (1989).
14. Advanced Materials Reviews '89 (Partial Charge: Chapter 14 - Piezoelectric/Electrostrictive Actuators). CMC Pub. Co., Tokyo (1989).

15. Applications of Piezo-ceramics (Partial Charge: Chapter 2, 2.1 Ceramic Actuators: Overview; 2.3 Photovoltaic Effect of Piezo-ceramics and Its Applications). New Ceras Series, Gakkensha Co., Tokyo (1989).
16. Electro-Optics and Nonlinear Optic Materials (Partial Charge: Section IV - Two-Dimensional Displays Using Transparent PLZT Ceramics). Ceramic Trans. Vol. 14, Amer. Ceram. Soc., Inc., Ohio (1990).
17. Introduction to Solid State Electronics for Ceramists. JME Materials Science Series, Uchida-Rokakuho Co., Tokyo (1990).
18. Dynamics of Electro-Magnetic Devices (Partical Charge: Chapter 7 - Piezoelectric Actuators). Corona Pub. Co., Tokyo (1990).
19. Advanced Technologies 1; Wonderful New Materials (1) (Partial Charge: Chapter 4 - Piezoelectric Ceramics, Chapter - Functional Ceramics). Edit. K. Uchino, Morikita Pub. Co., Tokyo (1990).
20. Advanced Technologies 2; Wonderful New Materials (2). Edit. K. Uchino, Morikita Pub. Co., Tokyo (1990).
21. Piezoelectric Actuators - Problem Solving, Morikita Pub. Co., Tokyo (1991).
22. Advanced Technologies 3; Remarkable Bio Science. Edit. K. Uchino, Morikita Pub. Co., Tokyo (1992).
23. Electronic Ceramics (Partial Charge: Applied Aspects of Piezoelectricity). Trans. Tech. Pub. (1992).
24. Ceramic Data Book '92 (Partial Charge: Recent Development of Ceramic Actuators). Inst. Industrial Manufacturing Technology, Tokyo (1992).
25. Materials Science and Technology (Partial Charge: Vol. II, Chapter 12 - Ferroelectric Ceramics). VCH, Germany (1994).
26. Handbook on New Actuators for Precision Position Control (Partial Charge: Part I, Introduction, Shape Memory Ceramics, Photostrictive Actuators; Part II, Piezoelectric/Electrostrictive Effects), Edit. in Chief K. Uchino. Fuji Technosystem, Tokyo (1994).
27. Applied Solid State Chemistry (Partial Charge: Section 3.3 Pyroelectric and Piezoelectric Materials), Asakura Pub. Co., Tokyo (1994).
28. Encyclopedia of Advanced Materials, Edit. D.Bloor et al. (Partial Charge: Ceramic Actuators), Pergamon, UK (1994).
29. Encyclopedia of Science & Technology (Partial Charge: Inchworm), Maruzen, Tokyo (1995).

30. Piezoelectric Actuators and Ultrasonic Motors, Kluwer Academic Publishers, Norwell, MA (1997).
31. Uchino, K., Micro-Optomechanics Handbook, Sec.5.5 Photostrictive Actuators, Asakura Publishing Co., Tokyo (1997).
32. Uchino, K., Shape Memory Materials, K. Otsuka and C. M. Wayman, Edit., Chap. 8 Shape Memory Ceramics, Cambridge Univ. Press, Cambridge (1998).
33. Uchino, K., Wiley Encyclopedia of Electrical and Electronics Engineering, J. G. Webster, Edit., (Partial Charge "Piezoelectric Actuators"), John Wiley & Sons (1999).
34. Ito, Y. and K. Uchino, Wiley Encyclopedia of Electrical and Electronics Engineering, J. G. Webster, Edit., (Partial Charge "Piezoelectricity"), John Wiley & Sons (1999).
35. Uchino, K., How to Polish Up Scientific English Papers - Second Edition - (Partial Charge: Chapter 3 - Comon Mistakes by Japanese Scientists). Edit. Jpn. Phys. Soc., Maruzen Pub. Co., Tokyo (1999).
36. Uchino, K., Ferroelectric Devices, Marcel Dekker, NY (2000).
37. Kelly, A., R. Davidson and K. Uchino, "Smart Composite Materials Systems," Chap.5.20, Comprehensive Composite Materials, Elsevier Science, Oxford, UK (2000).
38. Tressler, J. and K. Uchino, "Piezoelectric Composite Sensors," Chap.5.22, Comprehensive Composite Materials, Elsevier Science, Oxford, UK (2000).
39. Uchino, K., "Piezoelectro Composites," Chap.5.24, Comprehensive Composite Materials, Elsevier Science, Oxford, UK (2000).
40. Uchino, K., "Piezoelectric Actuators," Chap.6.35, Comprehensive Composite Materials, Elsevier Science, Oxford, UK (2000).
41. Koc, B. and K. Uchino, "Piezoelectric Ultrasonic Motors," Chap.6.34, Comprehensive Composite Materials, Elsevier Science, Oxford, UK (2000).
42. Uchino, K., Piezoelectric Materials in Devices, Partial Charge, p. 83 "Chapter 4 Designing Piezoelectric Actuators," EPFL Swiss Federal Inst Tech, Lausanne, Switzerland (2002).
43. Uchino, K., B. Koc. P. Laoratanakul and A. V. Carazo, Piezoelectric materials in Devices, Partial Charge, p. 155 "Piezoelectric Transformers-New Perspective," EPFL Swiss Federal Inst Tech, Lausanne, Switzerland (2002).

44. Uchino, K. and J. Giniewicz, "Micromechatronics," Marcel Dekker (2003).
45. Uchino, K., Encyclopedia of Vibration, Partial Charge "Electrostrictive Materials", Academic Press, London (2003).
46. Uchino, K., and Y. Ito, Encyclopedia Smart Materials, J. Harvey, Edit., Partial Charge "Smart Ceramics: Transducers, Sensors and Actuators", John Wiley & Sons, New York (2003).
47. Uchino, K., "Designing with Piezoelectric Devices," Partial Contribution to Designing with Engineering Ceramics, Amer. Ceram. Soc., PA (2003).
48. Uchino, K., "Designing with Piezoelectric Actuators," Partial Contribution to Morphotropic Phase Boundary Perovskites, High Strain Piezoelectrics, and Dielectric Ceramics (Ceramic Trans. Vol. **136**), Amer. Ceram. Soc., PA (2003).
49. Uchino, K., "Piezoelectric Ceramics," Chapter 4.1, p. 107-160, Partial Contribution and Editor to Handbook of Advanced Ceramics, Volume I Materials Science, Volume II Processing and their Applications, Elsevier Academic Press (2003).
50. Pezeshk, A., Y. Gao and K. Uchino, "Ultrasonic Piezoelectric Hypochlorous Acid Humidifier for Disinfection Applications," NSF EE REU Penn State Annual Research Journal Vol. **II**, ISBN 0-913260-04-5 (2004).
51. Gallagher, D., H. -W. Kim and K. Uchino, "PIEZOELECTRIC MULTILAYER ACTUATOR WITH "FLEX" ENDCAP ," NSF EE REU Penn State Annual Research Journal Vol. **III**, ISBN 0-913260-05-3 (2005).
52. Uchino, K. and T. Ishii, *Ferroelectric Devices [Japanese Translation]*, Morikita Pub. Com., Tokyo, Japan (2005).
53. Norian, H., S. -H. Park and K. Uchino, "Energy Harvesting with Flexible Piezoelectric Elements," NSF EE REU Penn State Annual Research Journal Vol. **IV**, ISBN 0-913260-06-5 (2006).
54. Berhe, F., S. -H. Park, A. Rajapurkar and K. Uchino, "Piezoelectric Pump with a Piezoelectric Cymbal Actuator for Laptop Cooling Applications," NSF EE REU Penn State Annual Research Journal Vol. **V**, ISBN 0-913260-07-5 (2007).
55. Uchino, K. and T. Ishii, *Micromechatronics [Japanese Translation]*, Morikita Pub. Com., Tokyo, Japan (2007).
56. Uchino, K., "FEM and Micromechatronics", CRC/Dekker, (2007) [in press].

D. CONFERENCE PRESENTATIONS

INVITED (180 Papers including the Following)

1. Uchino, K., S. Nomura, L.E. Cross and R.E. Newnham, "Electrostriction in Perovskite Crystals and Its Applications to Transducers," 2nd Jpn. Soviet Symp. Ferroelectricity, (8a2), (1980).
2. Uchino, K., "New Piezoelectric Materials and Their Applications," Symp. Electr. Soc. Jpn., (S3-5), (1981).
3. Uchino, K., "New Piezoelectric Materials and Their Applications," Mtg. Appl. Ferroelectrics, Jpn. (1981).
4. Uchino, K., "PZT:Polymer Composites and Their Applications," Soc. Polymer Science, (83/4), (1983).
5. Uchino, K., "Electrostrictive Actuators," Int'l Symp. Appl. Ferroelectrics, (2B1), (1986).
6. Uchino, K., "Recent Topics of Ceramic Actuators," Int'l Symp. Appl. Ferroelectrics, (R1), (1988).
7. Uchino, K., "Multilayered Ceramic Structures, Solid State Studies in Ceramics," Gordon Research Conference, August 14-18 (1989).
8. Uchino, K., "Shape Memory Effect Associated with the Forced Phase Transition in Antiferroelectrics," MRS Int'l. Mtg. on Adv. Mats (1989).
9. Uchino, K., K. Tokiwa and J. Giniewicz, "Two Dimensional Displays Using Transparent PLZT Ceramics," Symp. VIII: Electro-Optic and Nonlinear Optics, Amer. Ceram. Soc. (27-S VIII-89C), (1989).
10. Uchino, K., "Recent Topics in Ceramic Actuators," Int'l Symp. Appl. Ferroelectrics (1990).
11. Uchino, K., "Ceramic Actuators," Jpn. Mech. Soc. Symp. (No. 900-5), Jan. 24-25 (1990).
12. Uchino, K., "Recent Development of Ceramic Actuators," Smart Materials (Defense Sciences Research Council), July 18 (1991).
13. Uchino, K., "Applications of Piezoelectric Ceramics in Smart Actuators and Systems," Active Materials and Adaptive Structures, November 5-8 (1991).
14. Uchino, K., "Particle Grain Size Dependence on Ferroelectricity," Gordon Research Conference, July 29-August 2 (1991).

15. Uchino, K., "Recent Development of Piezoelectric Actuators for Adaptive Structures," 3rd. Int'l Conf. Adaptive Structures (1991).
16. Uchino, K., "Novel Actuator Materials: Monomorphs & Photostrictors," ARO Workshop, Materials by Design at Small Dimension, Georgia, May 20-22 (1992).
17. Yoshikawa, S. and K. Uchino, "Recent Development of Multilayer Actuators - Review of Materials and Structures," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-9-93), Cincinnati, April 18-22 (1993).
18. Uchino, K., "Relaxor Ferroelectric Devices," 8th Int'l Mtg. Ferroelectricity, (Inv:26), Gaithersburg, August 8-13 (1993).
19. Uchino, K., "Photostriction and Its Applications," Amer. Ceram. Soc. Pac Rim Conf., Hawaii, November 7-10 (1993).
20. Uchino, K., "Manufacturing Technology of Multilayered Transducers," Amer. Ceram. Soc., Symp. Design for Manufacturability and Manufacture of Ceramic Components, Indianapolis, April 24-28 (1994).
22. S.Takahashi, S.Hirose, K.Uchino and K.Y.Oh, "Electro-Mechanical Characteristics of PZT under High Vibration Level," 9th Int'l Symp. Appl. Ferroelectrics, State College, August 7-10 (1994).
23. K. Uchino, "Piezoelectric Actuators/Ultrasonic Motors -- Their Developments and Markets," 9th Int'l Symp. Appl. Ferroelectrics, State College, August 7-10 (1994).
24. K.Uchino, "New Piezoelectric Devices for Smart Actuator/Sensor Systems," 4th Int'l Conf. Electronic Ceram. & Appl., Aachen, Germany, Sept.5-7 (1994).
25. Takahashi, S., S. Hirose and K. Uchino, "Piezoelectric Characteristics in PZT Under High Vibration Level," Amer. Ceram. Soc., Los Angeles, Fall (1994).
26. Uchino, K., "New Piezoelectric Devices for Smart Actuator/Sensor Systems," The 4th ASEAN Sci. & Tech. Week, Bangkok, Thailand, Aug.21-Sep.1 (1995).
27. Uchino, K., "Piezoelectric Sensors and Actuators: Overview," Sensors Expo '95, Chicago, Il., Sep. 12-14 (1995).
28. Takahashi, S., S. Hirose and K. Uchino, "Materials for Piezoelectric Actuators," Mtg. Ferroelectric Mater. and Appl. (1995).
29. Uchino, K., "Ceramic Actuators in Smart Systems," 4th Japan Int'l SAMPE Symp. & Exhibition, Tokyo, Japan, Sept. 25-28 (1995).

30. Uchino, K., "Photostrictive Actuators and "Photophones"," Int'l Symp. on Microsystems, Intelligent Mater. and Robots, IM1-1, Sendai, Japan, Sept. 27-28 (1995).
31. Uchino, K., "Photostrictive Actuators and "Photophones", " 7th US-Japan Seminar on Dielectric and Piezoelectric Ceramics, V-2, Tsukuba, Japan, Nov.14-17 (1995).
32. Uchino, K., "Novel Actuator Materials," 1st US-Japan Workshop on Smart Mater. and Structures, Seattle, Washington, Dec. 4-5 (1995).
33. Uchino, K., "Recent Developments in Ceramic Actuators," Workshop on Microsystem Technologies in the USA and Canada, Dusseldorf, Germany, Nov.3 (1995).
34. Uchino, K., "Reliability of Ceramic Actuators," Amer. Ceram. Soc. Annual Mtg., SXVII-4-96, Indianapolis, IN, April (1996).
35. Uchino, K., "High Electromechanical Coupling Piezoelectrics - How High Energy Conversion Rate is Possible?-", Mat. Res. Soc. Symp. Fall Mtg., Y1.1, Boston, MA, Dec.2-6 (1996).
36. Uchino, K., "Ferroelectric Devices," Symp. Ferroelectric Mater. & Appl., Mat. Tech. Center, Chiangmai, Thailand, June (1997).
37. Uchino, K., "How to Design the Ceramic Actuators for Bestseller Devices," 2nd Symp. Adv. R & D, Jpn. Steel Soc., Tokyo, Japan, June (1997).
38. Uchino, K., "High Electromechanical Coupling Piezoelectrics: Relaxor and Normal Ferroelectric Solid Solutions," 4th IUMRS Int'l Conf. in Asia, Mater. Res. Soc. Jpn., Tokyo, Japan, September 16-18 (1997).
39. Uchino, K., "Compact Piezoelectric Ultrasonic Motors," 70th Mtg. of Jpn. Med. Ultrasonics, Sendai, Japan, November 2-4 (1997).
40. Uchino, K., "New Trend in Multilayer Ceramic Actuators," 100th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Multilayer Electronic Ceramic Devices, Cincinnati, May 3-6 (1998).
41. Uchino, K. and P. Poosanaas, "Photostriction in PLZT and Its Applications," 9th Int'l Conf. on Modern Materials & Technologies, SVIII-1:IL02, Florence, Italy, June 14-19 (1998).
42. Atherton, P. D. and K. Uchino, "New Developments in Piezo Motors and Mechanisms," 6th Int'l Conf. on New Actuators (Actuator 98), 2.0, Bremen, Germany, (June 17-19, 1998).

43. Uchino, K., "New Trend in Ceramic Actuators," 6th Int'l Aerospace Symp. '98, Nagoya, Japan, S1-2 (July 14-15, 1998).
44. Uchino, K. and P. Poosanaas, "Photostriction in PLZT and Its Applications," 4th Int'l Conf. Intelligent Materials, 1A4-K, Makuhari, Japan (October 5-7, 1998).
45. Uchino, K., and J. H. Zheng, "Loss Mechanisms in Piezoelectrics and Resonance/Antiresonance," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SE-27, Indianapolis, April 25 - 28 (1999).
46. Uchino, K., and H. Aburatani, "Field Induced Acoustic Emission in Ferroelectric Ceramics," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SE-56, Indianapolis, April 25 - 28 (1999).
47. Uchino, K., "High Electromechanical Coupling in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals - How High Energy Conversion Rate is Possible?," NATO-Advanced Research Workshop: Piezoelectric Materials, Advance in Science, Technology and Applications, Predeal, Romania, May 24-27 (1999).
48. Uchino, K., and B. Koc, "Compact Piezoelectric Ultrasonic Motors," NATO-Advanced Research Workshop: Piezoelectric Materials, Advance in Science, Technology and Applications, Predeal, Romania, May 24-27 (1999).
49. Uchino, K., and B. Koc, "Compact Piezoelectric Ultrasonic Motors," United Engineering Foundation Conference on Engineered Adaptive Structures for Noise and Vibration Control II, Barga, Italy, May 16-21 (1999).
50. Uchino, K., "Review: MURI-ONR Program at Penn State," 4th ARO Workshop on Smart Structures and Systems, University Park, PA, Aug. 16-18 (1999).
51. Uchino, K., "Recent Trend of Piezoelectric Actuator Developments," Int'l Symp. Micromechatronics and Human Science '99, Nagoya, Japan, Nov. 23-26 (1999).
52. Uchino, K., "Loss Mechanisms in Piezoelectrics and Heat Generation," Fundamental Physics Workshop on Ferroelectrics, Aspen, Co, Feb. 13-19 (2000).
53. Uchino, K., "Crystal Orientation Dependence of Piezoelectricity in Perovskites and Related Materials," Fundamental Physics Workshop on Ferroelectrics, Aspen, Co, Feb. 13-19 (2000).
54. Uchino, K., J. H. Zheng, Y. H. Chen, X. H. Du and S. Hirose, "Heat Generation and Loss Mechanisms in Multilayer Piezoelectric Actuators," 102nd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A2-007-00, St. Louis, April 30 - May 3 (2000).

55. Uchino, K., "Recent Trend of Piezoelectric Actuator Developments –Material, Design and Drive Technique Related Issues--," Proc. Actuator 2000 (7th Int'l Conf. New Actuators, June 19-21, 2000), p.34-39 (2000).
56. Uchino, K., B. Koc and S. Dong, "Compact Piezoelectric Ultrasonic Motors," Proc. 5th Euroconf. Appl. Polar Dielectrics, O-1, Jurmala, Latvia, Aug. 27-30 (2000).
57. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators –New Perspective--," Proc. 5th Euroconf. Appl. Polar Dielectrics, O-43, Jurmala, Latvia, Aug. 27-30 (2000).
58. Uchino, K., X. Du, S. Kalpat and U. Belegundu, "High Electromechanical Coupling Piezoelectrics -Crystal Orientation Dependence of Electromechanical Couplings in Perovskite Crystals-," Amer. Ceram. Soc. Electronics Division Mtg., Greenville, Oct. 9-11 (2000).
59. Uchino, K., Y. H. Chen, X. Du, J. Zheng, P. Ramakrishnan, S. Hirose and S. Takahashi, "High Power Piezoelectric Measurement System," Amer. Ceram. Soc. Electronics Division Mtg., Greenville, Oct. 9-11 (2000).
58. Uchino, K., B. Koc, P. Laoratanakul and A. Vazquez Carazo, "Piezoelectric Transformers –New Perspective--," 3rd Asian Mtg. Ferroelectrics, D1d.1, Hong Kong, Dec. 12-15 (2000).
59. Uchino, K., "The Dawn of Piezoelectric Composites at MRL/Penn State: Some History," 25th Annual Int'l Conf. Advanced Ceramics & Composites, S3-001-01, Jan. 21-26 (2001).
60. Uchino, K., "Designing with Piezoelectric Devices," 25th Annual Int'l Conf. Advanced Ceramics & Composites, C2-013-01, Jan. 21-26 (2001).
61. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators – New Perspective," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Optoelectronic Mater. & Tech. in the Information Age, A2A-08-2001, Indianapolis, April 22 - 25 (2001).
62. Uchino, K., "2-2 Piezoelectric Composite Transducers," 103rd Annual Mtg. of Amer. Ceram. Soc., Elec1- Electroactive Composite Mater. & Devices, Elec1C-02-2001, Indianapolis, April 22 - 25 (2001).
63. Uchino, K. and B. Koc, "Compact Ultrasonic Motors," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-06-2001, Indianapolis, April 22 - 25 (2001).
64. Uchino, K., "Piezoelectric Transformers and Ultrasonic Motors," Electroceramic Process Study Committee, Tokyo, Japan, May 19th (2001).

65. Uchino, K., "Piezoelectric Ultrasonic Motors," United Engineering Foundation Conference on Engineered Adaptive Structures for Noise and Vibration Control III, Quebec City, Canada, July 29-Aug. 2 (2001).
66. Uchino, K., P. Laoratanakul and A. Vazquez Carazo, "Piezoelectric Transformers – New Perspectives-," United Engineering Foundation Conference on Engineered Adaptive Structures for Noise and Vibration Control III, Quebec City, Canada, July 29-Aug. 2 (2001).
67. Uchino, K., "Piezoelectric Transformers," Int'l Sensor Conf., Seoul, Korea, Oct. 11-12 (2001).
68. Uchino, K., B. Koc and A. V. Carazo, "Piezoelectric Transformers-New Perspective-," Int'l Conf. Smart Technology Demonstrators & Devices, Edinburgh, UK, Dec. 12-14 (2001).
69. Uchino, K., "Designing Piezoelectric Actuators," Piezoelectric Materials for the End Users, Interlaken, Switzerland, Feb. 24-27 (2002).
70. Uchino, K., "Piezoelectric Transformers –New Perspective-," Piezoelectric Materials for the End User, Interlaken, Switzerland, Feb. 24-27 (2002).
71. Bouchilloux, P. and K. Uchino, "Application of the Genetic Optimization Method to the Design of Ultrasonic Motors," Proc. SPIE - Int. Soc. Opt. Eng. (USA), Proceedings of the SPIE - The International Society for Optical Engineering, vol.4693 (2002).
72. Uchino, K., "Designing with Piezoelectric Devices," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-B-01-2002, St. Louis, MO, April 28 – May 1 (2002).
72. Cagatay, S., K. Uchino and B. Koc, "Ultrasonic Micromotor for Medical Applications," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-I-03-2002, St. Louis, MO, April 28 – May 1 (2002).
73. Uchino, K., "Piezoelectric Actuators 2002-New Materials, Design and Drive/Control Related Issues," Proc. 8th Int'l Conf. New Actuators, A1.0, p. 33, Bremen, Germany, June 10-12 (2002).
74. Uchino, K., "Introduction to Micromechatronics," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
75. Uchino, K., S. Dong, B. Koc, S. Cagatay, P. Bouchilloux and M. T. Strauss, "Piezoelectric Ultrasonic Micro Motors," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).

76. Uchino, K., "Introduction to Piezoelectric Actuators and Transducers," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
77. Uchino, K., J. Zheng, Y. H. Chen, X. H. Du, J. Ryu, Y. Gao and S. Hirose, "Loss Mechanisms and High Power Piezoelectrics," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
78. Uchino, B. Koc, S. Cagatay, P. Bouchilloux and S. Dong, "Micro Piezoelectric Ultrasonic Motors," Int'l Conf. on Electroceramics (ICE 2003), Boston, MA, Aug. 3-7 (2003)
79. Uchino, K. and A. Vazquez Carazo, " High Power Transformers –Their Applications to Smart Actuator Systems-," 8th Japan Int'l SAMPE Symp., Plenary 4, Nov. 18-21 (2003).
80. Uchino, K., "Piezoelectric Actuator 2004," 1st Piezoelectric Mater. And Appl. In Actuators, IWPMA-T-3, March 29-31, Seoul (2004).
81. Uchino, K., A. Vazquez Carazo, S. Priya, S. O. Priya and T. Ezaki, "High Power Piezoelectric Transformers," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-89-2004, Indianapolis, April 18 - 21 (2004).
82. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Motors Using Bulk PZT and Utilizing two Orthogonal Bending Modes of a Hollow Cylinder (Part 2)," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-94-2004, Indianapolis, April 18 - 21 (2004).
83. Uchino, K., "Piezoelectric Actuators 2004- Materials, Design, Drive/Control, Modeling and Applications," 9th Int'l Conf. New Actuators, A1.0, Bremen, Germany, June 14-16 (2004).
84. Uchino, K., "Piezoelectric Actuators 2004," 5th Korea-Japan Conference on Ferroelectricity, J-01-1, Seoul, Korea, August 18-21 (2004).
85. Uchino, K. and S. Priya, "Piezoelectric Actuators 2004," ASM/TMS Spring Symp., GE Global Research Center, Schenectady, NY, May 24-25 (2004).
86. Kim, H. W., A. Batra, S. Priya, K. Uchino, R. E. Newnham and H. F. Hofmann, "Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic Environment," 7th Int'l Academic Summit, Lecture 3, Univ. Kaiserslautern, Germany, Oct. 5th (2004).
87. Uchino, K., "Piezoelectric Actuators 2004," Smart Materials Symposium, Chiang Mai, Thailand, Dec. 1-3 (2004).

88. Uchino, K., "Piezoelectric Actuators 2005," Adaptive Structures Prize Lecture, American Society of Mechanical Engineers, Austin, Texas, April 19-21 (2005).
89. Kim, H.-W., K. Uchino and T. Daue, "Energy Harvesting with Flexible Piezoelectric Composites," Proc. 9th Japan International SAMPE Symp. & Exhibition, SIT Session SIT 05, Nov. 29th-Dec. 2nd (2005).
90. Uchino, K., N. Bhattacharya, S. -H. Park and S. O. Ural, "High Power Piezoelectric Components", Mater Sci & Tech 2006, Cincinnati, Ohio, Oct 15-19 (2006).
91. Uchino, K., "How to Develop Best-Seller Devices," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Keynote Lecture, Anadolu Univ., Exkisehir, Turkey, June 18-21 (2006).
92. Uchino, K., "Expansion from IT/Robotics to Ecological/Energy Applications," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Opening Plenary Lecture, Anadolu Univ., Exkisehir, Turkey, June 18-21 (2006).
93. Uchino, K., "Piezoelectric Actuators 2006 – Expansion from IT/Robotics to Ecological/Energy Applications," 5th Asian Mtg. Electroceramics, AO-17, Bangkok, Thailand, Dec 10-14 (2006).
94. Uchino, K., "Review: Piezoelectric Actuators – Expansion from IT/Robotics to Ecological/Energy Applications -," SPIE Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring, Plenary, San Diego, CA, March 18-22 (2007).

CONTRIBUTED (600 Papers including the Following)

1. Uchino, K., M. Aizawa and S. Nomura, "Photostrictive Effect in (Pb,La) (Zr,Ti)O₃," Third Japan Soviet Symp. Ferroelectricity (1984).
2. Tohda, M., S. Ichikawa, K. Uchino and K. Kato, "Ultrasonic Linear Motors Using a Multilayered Piezoelectric Actuator," ECAPD-1/ISAF '88 (1988).
3. Tokiwa, K. and K. Uchino, "Grain Size Dependence of Electro-optic Effect in Transparent PLZT Ceramics," ECAPT-1/ISAF '88 (1988).
4. Suzuki, K., K. Kato and K. Uchino, "Dynamical Domain Observation of Relaxor Ferroelectric Crystals," Mater. Res. Soc. Jpn., Fall (1989).
5. Furuta, A., K. Y. Oh and K. Uchino, "Keep Relay Utilizing Shape Memory Ceramics," Jpn. Appl. Phys. Soc., Fall (1989).

6. Hagimura, A., M. Nakajima, K. Miyata and K. Uchino, "Impurity Doping Effect on Electric Field Induced Strains in (Pb, Ba)(Zr, Ti) O₃," Int'l. Symp. Appl. Ferroelectrics '90, IEEE (1990).
7. Oh, K. Y., A. Furuta and K. Uchino, "Development and Application of Shape Memory Ceramic Actuators," Int'l. Symp. Appl. Ferroelectrics '90, IEEE (1990).
8. Sugawara, Y. and K. Uchino, "Giant Electric-Field Induced Strain in Lead Zirconate Based Antiferroelectrics," Int'l. Symp. Appl. Ferroelectrics '90 (1990).
9. Furuta, A., K. Y. Oh and K. Uchino, "Mechanical Clamper Using Shape Memory Ceramics," Int'l. Symp. Appl. Ferroelectrics '90, (1990).
10. Yamakawa, T. and K. Uchino, "Particle Size Dependence of Ferro- and Antiferroelectricity," Int'l. Symp. Appl. Ferroelectrics '90 (1990).
11. Ishii, T. and K. Uchino, "Mechanical Damper Using Piezoelectric Ceramics," Int'l. Symp. Appl. Ferroelectrics '90 (1990).
12. Ujiie, R. and K. Uchino, "Dynamic Domain Observation in Relaxor Ferroelectrics," IEEE Ultrasonics Symp., Hawaii (1990).
13. Uchino, K. and K. Y. Oh, "Shape Memory Ceramics," IEEE Ultrasonic Symp., Hawaii (1990).
14. Arai, M., Y. Sugawara and K. Uchino, "AE Measurement in Ferroelectrics," IEEE Ultrasonic Symp. Hawaii (1990).
15. Uchino, K., M. L. Mulvihill and R. P. Brodeur, "Dynamical Observation of the Domain Movement in Relaxor Ferroelectrics," Amer. Ceram. Soc., (II-S VIII-92), Minnesota, April 13-15 (1992).
16. Uchino, K., "Piezoelectric Ceramics in Smart Actuators and Systems," First European Conf. Smart Structures and Materials, Glasgow, May 12-14 (1992).
17. Uchino, K. and A. Furuta, "Destruction Mechanism of Multilayer Ceramic Actuators," Int'l. Symp. Appl. Ferroelectrics '92, South Carolina, August 31-September 2 (1992).
18. Uchino, K., "Piezoelectric/Electrostrictive Actuators - Tutorial Lecture," 3rd Smart Actuator Symp., State College, October 22-23 (1992).
19. Uchino, K., "Fabrication Processes and Actuator Characteristics: Introduction," 4th Smart Actuator Symp., State College, January 21-22 (1993).
20. Uchino, K., "Electrodes for Ceramic Actuators," 4th Smart Actuator Symp., State College, January 21-22 (1993).

21. Uchino, K., "Fabrication of Multilayer Piezoelectric Actuators," 4th Smart Actuator Symp., State College, January 21-22 (1993).
22. Uchino, K., "Optical Domain Studies," ONR Transducer Materials Review, State College, April 6-8 (1993).
23. Tressler, J. F., Q. C. Xu, S. Yoshikawa, K. Uchino and R. E. Newnham, "Composite Flexensional Transducers for Sensing and Actuating," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-3-93), Cincinnati, April 18-22 (1993).
24. Dogan, A., Q. C. Xu, S. Yoshikawa, K. Uchino and R. E. Newnham, "High-Displacement Ceramic Composite Actuators (Moonies)," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-4-93), Cincinnati, April 18-22 (1993).
25. Onitsuka, K., A. Dogan, J. F. Tressler, Q. C. Xu, S. Yoshikawa, K. Uchino and R. E. Newnham, "Design Optimization for Metal-Ceramic Composite Actuator," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-6-93), Cincinnati, April 18-22 (1993).
26. Dogan, A., S. Sentz, S. Yoshikawa, Q. C. Xu, B. R. Tittmann, K. Uchino and R. E. Newnham, "Bonding in Metal-Ceramic Composite Actuators (Moonies)," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-7-93), Cincinnati, April 18-22 (1993).
27. Uchino, K., "Novel Ceramic Actuator Materials," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-12-93), Cincinnati, April 18-22 (1993).
28. Chu, S. Y., K. Uchino and Z. Ye, "Photostrictive Effect in Doped PLZT Ceramics," Amer. Ceram. Soc. 95th Annual Mtg. (SXVII-21-93), Cincinnati, April 18-22 (1993).
29. Brodeur, R. P., C. O. Ruud and K. Uchino, "Non-Uniform Electrical Field-Induced Strain in Semiconducting Lead Zirconate-Based Ceramics," Amer. Ceram. Soc. 95th Annual Mtg. (SXVIIP-13-93), Cincinnati, April 18-22 (1993).
30. Aburatani, H., K. Uchino and S. Harada, "Destruction Mechanism of Multilayer Ceramic Actuators," Amer. Ceram. Soc. 95th Annual Mtg. (SXVIIP-17-93), Cincinnati, April 18-22 (1993).
31. Mulvihill, M. L., L. E. Cross and K. Uchino, "Low Temperature Dynamic Observation of Relaxor Ferroelectric Domains," Amer. Ceram. Soc. 95th Annual Mtg. (SXVIIP-19-93), Cincinnati, April 18-22 (1993).
32. Oh, K. Y., K. Uchino, L. E. Cross, B. M. Kulwicki and A. Amin, "Dynamic Observation of Domain Motion in Ferroelectric Polycrystalline Ceramics," Amer. Ceram. Soc. 95th Annual Mtg. (SXVIIP-21-93), Cincinnati, April 18-22 (1993).

33. Ye, Z., S. Y. Chu, C. Gu and K. Uchino, "Spatial Light Modulator Using Photostrictive Ceramics," Amer. Ceram. Soc. 95th Annual Mtg. (EP-13-93), Cincinnati, April 18-22 (1993).
34. Lee, N. Y., N. Usuki, K. Uchino and Y. Ito, "Pb/Ti Ratio of the RF-Magnetron Sputtered PbTiO₃ Thin Films," Amer. Ceram. Soc. 95th Annual Mtg. (E-76-93), Cincinnati, April 18-22 (1993).
35. Dogan, A., Q. C. Xu, K. Onitsuka, S. Yoshikawa, K. Uchino and R. E. Newnham, "High-Displacement Ceramic Composite Actuators (Moonies)," 8th Int'l. Mtg. Ferroelectricity (P2:203), Gaithersburg, August 8-13 (1993).
36. Tressler, J. F., Q. C. Xu, S. Yoshikawa, K. Uchino and R. E. Newnham, "Composite Flexensional Transducers for Sensing and Actuating," 8th Int'l. Mtg. Ferroelectricity (P2:218), Gaithersburg, August 8-13, 1993.
37. Uchino, K., "Introduction to Piezoelectric Actuators/ Ultrasonic Motors," 7th Smart Actuator Symp., State College, October 21-22 (1993).
38. Uchino, K., M. L. Mulvihill, K. Y. Oh, R. Brodeur and L. E. Cross, "Optical Studies of Domains in Ferroelectric Actuators," US-JPN Ceram. Seminar, Hawaii, November 11-12 (1993).
39. Aburatani, H., K. Uchino, S. Harada, A. Furuta and Y. Fuda, "Destruction Mechanisms of Multilayer Piezoelectric Actuators," Symp. Ultrasonic and Electronics, Yokohama, December 7-9 (1993).
40. Uchino, K., "Drive/Control Techniques of Ceramic Actuators: General Review," 8th Smart Actuator Symp., State College, January 20-21 (1994).
41. Uchino, K., "Control Techniques of Ultrasonic Motors," 8th Smart Actuator Symp., State College, January 20-21 (1994).
42. Uchino, K., "Active/Passive Vibration Damping," 8th Smart Actuator Symp., State College, January 20-21 (1994).
43. Oh, K. Y. and K. Uchino, "Shape Memory Ceramic Actuators," 8th Smart Actuator Symp., State College, January 20-21 (1994).
44. Oh, K. Y., L. E. Cross and K. Uchino, "Observation of Domain Structures in Ba(Ti,Sn)O₃ Ceramics," Amer. Ceram. Soc. 96th Annual Mtg. (SVI-35-94), Indianapolis, April 24-28 (1994).
45. Ye, Z., S. Y. Chu and K. Uchino, "Ring-Disc-Type Ultrasonic Motors," Amer. Ceram. Soc. 96th Annual Mtg. (SVI-41-94), Indianapolis, April 24-28 (1994).

46. Mulvihill, M. L., L. E. Cross and K. Uchino, "Dynamic Observation of the Domain Configuration in Lead Manganese Niobate and Lead Zinc Niobate Single Crystals," Amer. Ceram. Soc. 96th Annual Mtg. (SVI-45-94), Indianapolis, April 24- 28 (1994).
47. Mulvihill, M. L., L.E.Cross and K.Uchino, "Dynamic Domain Observation in Relaxor Ferroelectrics," '94 ONR Transducer Materials and Transducers Workshop, State College, April 11-13 (1994).
48. Uchino, K., S.Takahashi and Z.Ye, "Compact Piezoelectric Ultrasonic Motors," '94 ONR Transducer Materials and Transducers Workshop, State College, April 11-13 (1994).
49. Dogan, A., S.Yoshikawa, K.Uchino and R.E.Newnham,"Flextensional "Moonie" Actuator: New Endcap Design and Reliability," '94 ONR Transducer Materials and Transducers Workshop, State College, April 11-13 (1994).
50. Oh, K.Y., K.Uchino and L.E.Cross, "Optical Study of Ba(Ti,Sn)O₃ Ceramics," 9th Smart Actuator Symp., State College, April 20-21 (1994).
51. Mulvihill, M. L., L.E.Cross and K.Uchino, "Domain Reversal Mechanisms in Rhombohedral Relaxor Ferroelectrics," 9th Smart Actuator Symp., State College, April 20-21 (1994).
52. Aburatani, H. and K. Uchino "Destruction Mechanisms of Multilayer Actuators," 9th Smart Actuator Symp., State College, April 20-21 (1994).
53. Uchino, K. and H.Aburatani, "Destruction Detection Techniques for Safety Piezoelectric Actuator Systems," 2nd Int'l Conf. Intelligent Mater., Williamsburg, June 6-8 (1994).
54. Oh, K. Y., K.Uchino and L.E.Cross, "Electrical Properties and Domain Structures in Ba(Ti,Sn)O₃ Ceramics," 9th Int'l Symp. Appl. Ferroelectrics, State College, August 7-10 (1994).
55. Mulvihill, M. L., L.E.Cross and K.Uchino, "Dynamic Observation of the Domain Configuration in Lead Magnesium Niobate and Lead Zinc Niobate Relaxor Ferroelectric Single Crystals," 9th Int'l Symp. Appl. Ferroelectrics, State College, August 7-10 (1994).
56. Aburatani, H. and K.Uchino,"Destruction Mechanism and Destruction Detection Technique for Multilayer Ceramic Actuators," 9th Int'l Symp. Appl. Ferroelectrics, P4-9, State College, August 7-10 (1994).
57. Chu, S.Y., Z.Ye and K.Uchino,"Photo-Acoustic Devices Using PLZT-Doped Ceramics," 9th Int'l Symp. Appl. Ferroelectrics, P4-7, State College, August 7-10 (1994).

58. Tressler, J.F., Q.C.Xu, S.Yoshikawa, K.Uchino and R.E.Newnham, "Composite Flexensional Transducers for Sensing and Actuating," 9th Int'l Symp. Appl. Ferroelectrics, P4-11, State College, August 7-10 (1994).
59. Dogan, A., S.Yoshikawa, K.Uchino and R.E.Newnham, "Reliability of Flexensional Moonie Actuator," 9th Int'l Symp. Appl. Ferroelectrics, P4-12, State College, August 7-10 (1994).
60. Dogan, A., K.Uchino and R.E.Newnham, "Reliability of Ceramic-Metal Composite Actuator "Moonie"," 4th Int'l Conf. Electronic Ceram. & Appl., Aachen, Germany, Sept.5-7 (1994).
61. Uchino, K., "Introduction to Ceramic Actuators," 11th Smart Actuator Symp., State College, October 24-25 (1994).
62. Uchino, K., "Ultrasonic Motors-Overview," 12th Smart Actuator Symp., State College, October 26-27 (1994).
63. Uchino, K., "How to Design Ultrasonic Motors," 12th Smart Actuator Symp., State College, October 26-27 (1994).
64. Uchino, K., S. Takahashi, S. Hirose and J. Zheng, "Drive Voltage Dependence of Electro-mechanical Coupling in Piezoelectric Ceramics," Mat. Res. Soc., I1-1.5, Boston, November 28-December 2 (1994).
65. Hirose, S., S. Takahashi and K. Uchino, "Measuring Methods for High-Power Characteristics of Piezoelectric Materials," Mat. Res. Soc., I1-1.6, Boston, November 28-December 2 (1994).
66. Oh, K. Y., H. Yamamoto, K. Uchino and L. E. Cross, "Optical Study of Domains in Antiferroelectric Ceramics," Mat. Res. Soc., I1-1.8, Boston, November 28-December 2 (1994).
67. Chu, S. Y. and K. Uchino, "Photostrictive Effect in PLZT-Based Ceramics and Its Applications," Mat. Res. Soc., I1-2.9, Boston, November 28-December 2 (1994).
68. Zheng, J., H. Yamamoto, P. Moses, S. Takahashi and K. Uchino, "Uniaxial Stress Dependence of Piezostriction," Mat. Res. Soc., I1-7.11, Boston, November 28-December 2 (1994).
69. Takahashi, S., S. Hirose and K. Uchino, "Electro-Mechanical Properties of $\text{PbZrO}_3\text{-PbTiO}_3\text{-Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ Under Vibration-Level Change," Mat. Res. Soc., I1-7.12, Boston, November 28-December 2 (1994).
70. Uchino, K., "Remaining Theoretical Problems in Ceramic Actuators," ONR Workshop on Fundamental Ferroelectrics, Williamsburg, February 5-8 (1995).

71. Fielding, J. T. Jr., J. F. Fernandez, A. Dogan, K. Uchino and R. E. Newnham, "Characterization of Ceramic-Metal Composite Transducer with Multilayer Piezoceramic Element," Amer. Ceram. Soc. 97th Annual Mtg., E-8, Cincinnati, Ohio, Apr.30-May 3 (1995).
72. Fernandez, J. F., A. Dogan, J. Tressler, J. T. Fielding, K. Uchino and R. E. Newnham, "Temperature Dependence of High Displacement Ceramic-Metal Composite Actuators," Amer. Ceram. Soc. 97th Annual Mtg., E-10, Cincinnati, Ohio, Apr.30-May 3 (1995).
73. Zheng, J., S. Takahashi, S. Yoshikawa, K. Uchino and J.W.C. de Vries, "Heat Generation in Multilayer Piezoelectric Actuators ," Amer. Ceram. Soc. 97th Annual Mtg., E-14, Cincinnati, Ohio, Apr.30-May 3 (1995).
74. Aburatani, H. and K. Uchino, "New Internal Electrode Designs for Multilayer Ceramic Actuators," Amer. Ceram. Soc. 97th Annual Mtg., EP-46, Cincinnati, Ohio, Apr.30-May 3 (1995).
75. Joshi, A., S. Hirose, S. Takahashi and K. Uchino, "High Power Characteristics of Piezoelectric Materials," Amer. Ceram. Soc. 97th Annual Mtg., EP-47, Cincinnati, Ohio, Apr.30-May 3 (1995).
76. Tressler, J. F., K. Uchino and R. E. Newnham, "Ceramic-Metal Composite Transducers for Hydrophone Applications," Amer. Ceram. Soc. 97th Annual Mtg., EP-49, Cincinnati, Ohio, Apr.30-May 3 (1995).
77. Song, S. R. and K. Uchino, "Semiconductive Behavior in the (1-x)Pb (Zr_{0.9}Ti_{0.1})O₃-x(K_{0.5}Bi_{0.5})ZrO₃ Monomorph Materials," Amer. Ceram. Soc. 97th Annual Mtg., E-65, Cincinnati, Ohio, Apr.30-May 3 (1995).
78. Mulvihill, M. L., L. E. Cross and K. Uchino, "Dynamic Motion of the Domain Configuration in Relaxor Ferroelectric Single Crystals as a Function of Temperature and Electric Field," The 8th European Mtg. Ferroelectricity, P16-08, Nijmegen, July (1995).
79. Hirose, S., M. Aoyagi, Y. Tomikawa, S. Takahashi and K. Uchino, "High-Power Characteristics at Antiresonance Frequency of Piezoelectric Transducers," Ultrasonic Int'l, Edinburgh, July 4-7 (1995).
80. Uchino, K., "Photostrictive Actuators and Their Applications," 4th Japan Int'l SAMPE Symp. & Exhibition, Tokyo, Japan, Sept. 25-28 (1995).
81. Mulvihill, M. L., L. E. Cross and K. Uchino, "Dynamic Motion of the Domain Configuration in Relaxor Ferroelectric Single Crystals as a Function of Temperature and Electric Field," 7th US-Japan Seminar on Dielectric and Piezoelectric Ceramics, IV-18, Tsukuba, Japan, Nov. 14-17 (1995).
82. Dogan, A., K. Uchino and R. E. Newnham, "Unique Flexensional Composite Transducer Designs for Both Sensor and Actuator Applications," 1st US-Japan

- Workshop on Smart Materials and Structures, Seattle, Washington, Dec. 4-5 (1995).
83. Tressler, J. F., K. Uchino and R. E. Newnham, "Ceramic-Metal Composite Transducers for Hydrophone Applications," ONR Transducer Mater. and Transducers Workshop, State College, PA, April (1995).
 84. Tressler, J. F., A. Dogan, J. F. Fernandez, J. T. Fielding, Jr., K. Uchino and R. E. Uchino, "Capped Ceramic Hydrophones," IEEE Int'l Ultrasonics Symp., Seattle, WA (1995).
 85. Mulvihill, M. L., L.E. Cross, and K. Uchino, "In-situ Observation of Domain Motion in Relaxor Ferroelectric Single Crystals of PZN and PMN," Mater. Res. Soc. Annual Meeting, San Francisco, CA, April (1996).
 86. Mulvihill, M. L., L.E. Cross, K. Uchino and W. Cao, "Domain Related Phase Transitions in Lead Zinc Niobate Relaxor Ferroelectric Single Crystals," 1996 ONR Transducer Materials and Transducers Workshop, State College, Pennsylvania, March (1996).
 87. Tressler, W. Cao, K. Uchino and R. E. Newnham, "Capped Ceramic Electroacoustic Transducers," 1996 ONR Transducer Materials and Transducers Workshop, State College, Pennsylvania, March (1996).
 88. Dogan, A., J. F. Tressler, J. F. Fernandez, K. Uchino and R. E. Newnham, "Electroactive Roto-Flexensional Actuators," Amer. Ceram. Soc. Annual Mtg., SXIX-11-96, Indianapolis, IN, April (1996).
 89. Joshi, A., S. J. Yoon and K. Uchino, "Evaluation of PYW-PZT Composition for High Power Applications," Amer. Ceram. Soc. Annual Mtg., SXIX-14-96, Indianapolis, IN, April (1996).
 90. Witham, J. P. and K. Uchino, "Optical Study of Domains in PLZT Ceramics," Amer. Ceram. Soc. Annual Mtg., SXIX-16-96, Indianapolis, IN, April (1996).
 91. Tressler, J. F., J. F. Fernandez, K. Uchino and R. E. Newnham, "Capped Ceramic Pressure Sensors," Amer. Ceram. Soc. Annual Mtg., SXIX-29-96, Indianapolis, IN, April (1996).
 92. Aburatani, H. and K. Uchino, "Stress and Fatigue Estimation in Multilayer Ceramic Actuators Using An Internal Strain Gauge," Amer. Ceram. Soc. Annual Mtg., SXIX-37-96, Indianapolis, IN, April (1996).
 93. Chen, Y. H. and K. Uchino, "Monomorph Characteristics in Zinc Borate Doped PZT," Amer. Ceram. Soc. Annual Mtg., SXIX-42-96, Indianapolis, IN, April (1996).

94. Poosanaas, P., A. Dogan, A. V. Prasadaraao, S. Komarneni and K. Uchino, "Effect of Ceramic Processing Method on the Photostrictive Properties of WO₃ and Nb₂O₅ Doped PLZT," Amer. Ceram. Soc. Annual Mtg., SXIX-45-96, Indianapolis, IN, April (1996).
95. Zheng, Z. and K. Uchino, "Critical Uniaxial Stress in Piezoelectric Ceramics," Amer. Ceram. Soc. Annual Mtg., SXIX-48-96, Indianapolis, IN, April (1996).
96. Joshi, A., S. J. Yoon and K. Uchino, "Compact Ultrasonic Motor," Amer. Ceram. Soc. Annual Mtg., SXIX-49-96, Indianapolis, IN, April (1996).
97. Koc, B., A. Dogan, R. E. Newnham and K. Uchino, "Characterization of the Modified Cymbal Transducers," Amer. Ceram. Soc. Annual Mtg., SXIX-52-96, Indianapolis, IN, April (1996).
98. Witham, J. P. and K. Uchino, "Optical Study of Domains in PLZT Ceramics," 17th Smart Actuator Symp., University Park, PA, April (1996).
99. Chen, Y. H. and K. Uchino, "Semiconductive Characteristics in Zinc Borate Doped PZT," 17th Smart Actuator Symp., University Park, PA, April (1996).
100. Poosanaas, P., A. Dogan, A. V. Prada Rao, S. Komarneni and K. Uchino, "Photostrictive Properties of PLZT Ceramics Derived from A Sol-Gel Processing," 17th Smart Actuator Symp., University Park, PA, April (1996).
101. Belegundu, U., S. E. Park, M. Mulvihill, T. Shrouf, K. Uchino and L. E. Cross, "Dielectric and Piezoelectric Properties of .90PZN-0.10PT Single Crystals," 17th Smart Actuator Symp., University Park, PA, April (1996).
102. Dogan, A., P. Poosanaas, A. V. Prada Rao, S. Komarneni and K. Uchino, "Photostrictive Properties of PLZT Ceramics," Turkish Ceram. Soc. III. Ceram. Congress, Istanbul, Turkey (1996).
103. Poosanaas, P., A. Dogan, A. V. Prada Rao, S. Komarneni and K. Uchino, "Photostrictive Properties of PLZT Ceramics Derived from A Sol-Gel Process," Proc. 6th Annual Workshop on Sci. and Tech. Exchange between Thai Professionals in North America and Thailand, Edmonton, Alberta, Canada (1996).
104. Tressler, J. F., W. Cao, K. Uchino and R. E. Newnham, "Ceramic-Metal Composite Transducers for Underwater Acoustic Applications," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P1-73, East Brunswick, NJ, August (1996).
105. Mulvihill, M. L., L. E. Cross, K. Uchino and W. Cao, "Domain Related Phase Transitions in Lead Zinc Niobate Relaxor Ferroelectric Single Crystals," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P2-51, East Brunswick, NJ, August (1996).

106. Dogan, A., J. F. Fernandez, K. Uchino and R. E. Newnham, "The "Cymbal" Electromechanical Actuator," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P2-73, East Brunswick, NJ, August (1996).
107. Uchino, K., "Reliability of Ceramic Actuators," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P2-79, East Brunswick, NJ, August (1996).
108. Aburatani, H., K. Uchino, "Acoustic Emission (AE) Measurement in Piezoelectric Ceramics," Proc. 10th Int'l Symp. Appl. Ferroelectrics, P3-40, East Brunswick, NJ, August (1996).
109. Belegundu, U., M. L. Mulvihill and K. Uchino, "In Situ Observation of Domain Reorientation in 0.90PZN-0.10PT Single Crystals Under the Application of Electric Field and Temperature," Mat. Res. Soc. Symp. Fall Mtg., Y5.27, Boston, MA, Dec.2-6 (1996).
110. Uchino, K. and H. Aburatani, "Acoustic Emission in Actuator Ceramic Materials," 1997 ONR Transducer Materials and Transducers Workshop, State College, Pennsylvania, March (1997).
111. Tressler, J. F., W. J. Hughes, W. Cao, K. Uchino and R. E. Newnham, "Capped Ceramic Underwater Sound Projector," 1997 ONR Transducer Materials and Transducers Workshop, State College, Pennsylvania, March (1997).
112. Witham, J. P. and K. Uchino, "Optical Study of Domains in PLZT Ceramics," 1997 ONR Transducer Materials and Transducers Workshop, State College, Pennsylvania, March (1997).
113. Yun-Han Chen and Kenji Uchino, "High Power Piezoelectric Characteristics and Loss Mechanisms of PMN-PT Based Ceramics" at the 1997 ONR Transducer Material and Transducers Workshop, State College, PA (1997).
114. Uchino, K., "High Voltage/Power Characterization of Piezoelectric Materials," Amer. Ceram. Soc. Annual Mtg., E-026-97, Cincinnati, Ohio, May 4-7 (1997).
115. Witham, J. P. and K. Uchino, "Optical Study of Domains in PLZT Ceramics: Part I - Experimental Results," Amer. Ceram. Soc. Annual Mtg., E-032-97, Cincinnati, Ohio, May 4-7 (1997).
116. Chen, Y. H., J. S. Kim and K. Uchino, "High Power Piezoelectric Characteristics and Loss Mechanisms of PMN-PT Based Ceramics," Amer. Ceram. Soc. Annual Mtg., E-033-97, Cincinnati, Ohio, May 4-7 (1997).
117. Koc, B. and K. Uchino, "A New Ultrasonic Motor Design: "Windmill"," Amer. Ceram. Soc. Annual Mtg., E-034-97, Cincinnati, Ohio, May 4-7 (1997).

118. Zheng, J. and K. Uchino, "Uniaxial Stress Dependence of Piezoelectricity in the Lead Zirconate-Titanate System," Amer. Ceram. Soc. Annual Mtg., EP-020-97, Cincinnati, Ohio, May 4-7 (1997).
119. Kim, J. S., B. Koc, Y. H. Chen and K. Uchino, "Dielectric Properties of the Iron-Doped $\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})_{0.57}\text{Ti}_{0.43}\text{O}_3$ Ceramics," Amer. Ceram. Soc. Annual Mtg., EP-021-97, Cincinnati, Ohio, May 4-7 (1997).
120. Aburatani, H. and K. Uchino, "Field-Induced Acoustic Emission (AE) of Piezoelectric, Electrostrictive and Antiferroelectric Ceramics," Amer. Ceram. Soc. Annual Mtg., EP-022-97, Cincinnati, Ohio, May 4-7 (1997).
121. Tressler, J. F., W. J. Hughes and K. Uchino, "Capped Ceramic Underwater Sound Projector," Amer. Ceram. Soc. Annual Mtg., EP-024-97, Cincinnati, Ohio, May 4-7 (1997).
122. Poosanaas, P., A. V. Prasadarao, S. Komarneni and K. Uchino, "Coprecipitated PLZT Ceramics for Photostrictive Application," Amer. Ceram. Soc. Annual Mtg., EP-031-97, Cincinnati, Ohio, May 4-7 (1997).
123. Du, X. H., U. Belegundu and K. Uchino, "Elastic, Piezoelectric, and Dielectric Constants of a Single Crystal: $0.91\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.09\text{PbTiO}_3$," Amer. Ceram. Soc. 99th Annual Mtg., E-045-97, Cincinnati, Ohio, May 4-7 (1997).
124. Witham, J. P. and K. Uchino, "Optical Study of Domains in PLZT Ceramics," 21th Smart Actuator Symp., University Park, PA, April (1997).
125. Chen, Y. H., J. S. Kim and K. Uchino, "High Power Piezoelectric Characteristics and Loss Mechanisms of PMN-PT Based Ceramics," 21th Smart Actuator Symp., University Park, PA, April (1997).
126. Koc, B. and K. Uchino, "Transient Response Characteristics of Windmill Ultrasonic Motors," 21th Smart Actuator Symp., University Park, PA, April 21-22(1997).
127. Zheng, J. and K. Uchino, "Uniaxial Stress Dependence of Piezoelectricity in the Lead Zirconate-Titanate System," 21th Smart Actuator Symp., University Park, PA, April (1997).
128. Aburatani, H. and K. Uchino, "Field-Induced Acoustic Emission (AE) of Piezoelectric, Electrostrictive and Antiferroelectric Ceramics," 21th Smart Actuator Symp., University Park, PA, April (1997).
129. Tressler, J. F., W. J. Hughes and K. Uchino, "Capped Ceramic Underwater Sound Projector," 21th Smart Actuator Symp., University Park, PA, April (1997).

130. Poosanaas, P., Dogan, A., and Uchino, K., " Photovoltaic effect in PLZT ceramics", 21st ICAT Smart Actuators Symposia, Toftrees, State College, Pennsylvania , April (1997).
131. Koc, Burhanettin and K. Uchino, "Miniature Ultrasonic Motor," Graduate Student Exhibition, PSU, March 28 (1997).
132. Uchino, K., "Materials Issues in Design and Performance of Piezoelectric Actuators," Engineering Foundation Conference on Engineered Adaptive Composite Structures for Noise and Vibration Control, Banff, Canada, July 14-18 (1997).
133. Poosanaas, P., Dogan, A., and Uchino, K., "Photostrictive Effects in Lanthanum-modified Lead Zirconate Titanate Ceramics", The Ninth International Meeting on Ferroelectricity, Seoul, Korea, August 24-29 (1997).
134. Poosanaas, P., Dogan, A., and Uchino, K., "Surface Roughness and Sample Thickness Dependence of Photostrictive Effect", The Pennsylvania Ceramic Association Meeting (52nd Annual Ceramic Forum), September 11-13, (1997). (First Place Winner of Student Poster Competition)
135. Chen, Y. H. and K. Uchino, "High Power Piezoelectric Characteristics and Loss Mechanisms of PMN-PT Based Ceramics" 133rd Meeting of the Acoustical Society of America, State College, PA (1997).
136. Poosanaas, P., Dogan, A., and Uchino, K., "Dependence of Photostriction on Thickness and Surface Roughness for PLZT Ceramics", 1997 IEEE on Ultrasonic Symposium, Toronto, Ontario, Canada, October 5-8 (1997).
137. Poosanaas, P., K. Uchino and S. Thakoor, "Composition and Surface Effects in Photostrictive Behavior," 100th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Dielectric Ceramics, Cincinnati, May 3-6 (1998).
138. Belegundu, U., M. Pastor, X. Du and K. Uchino, "Observation of Domain Orientation Process in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Using Optical Microscope," 100th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Dielectric Ceramics, Cincinnati, May 3-6 (1998).
139. Tonooka, K., P. Poosanaas and K. Uchino, "Mechanism of the Bulk Photovoltaic Effect in Ferroelectrics," Proc. 5th SPIE Mtg., San Diego, March (1998).
140. Thakoor S., P. Poosanaas, J. M. Morookian, A. Yavrovian, L. Lowry, N. Marzwell, J. Nelson, R. R. Neurgaonkar and K. Uchino, "Optical Microactuation in Piezoceramics," Proc. 5th SPIE Mtg., San Diego, March (1998).

141. Poosanaas, P., and K. Uchino, "Surface Characteristics on Photostriction of PLZT Ceramics, " 13th Annual Graduate Research Exhibition, PennState University, University Park, Pennsylvania, (March 28,1998).
142. Chen, Y.H., and K. Uchino, "High-Power Characteristics of PMN-PT with Constant Current/Constant Voltage Measurements," ICAT 24th Smart Actuator Symposium, University Park, PA, April (1998).
143. Chen, Y. H., and K. Uchino, "High-Power Characteristics of PMN-PT with Constant Current/Constant Voltage Measurements," ONR Transducer Workshop, University Park, PA, (April, 1998).
144. Koc, B., A. Dogan, Y. Xu, R. E. Newnham, and K. Uchino, "Compact Ultrasonic Motor," 24th Smart Actuator Symp., State College, PA, April (1998).
145. Zheng, J., Y. H. Chen and K. Uchino, "Pulse Drive Method for Determining High Electric Filed Electromechanical Coupling Parameters," 24th Smart Actuator Symp., State College, PA, April (1998).
146. Belegundu, U., X. Du, and K. Uchino, "Study of Domain Formation In the $(1-x)\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-xPbTiO}_3$ Single Crystals with Morphotropic Phase Boundary Compositions," ONR Transducer Workshop, University Park, PA, (April 12-14, 1998).
147. Zheng, J., Y. H. Chen and K. Uchino, "Pulse Drive Method for Measuring High Electric Filed Electromechanical Characteristics," ONR Transducer Workshop, University Park, PA, (April 12-14, 1998).
148. Belegundu, U., X. H. Du and K. Uchino, "In-Situ Observation of Domain Orientation in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," 5th Int'l Symp. Ferroic Domains and Mesoscopic Structures, University Park, PA, April (1998).
149. Koc, B., and K. Uchino, "Ultrasonic Micromotor," 100th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Dielectric Ceramics, Cincinnati, May 3-6 (1998).
150. Poosanaas, P., A. Dogan, S. Thakoor and K. Uchino, "Thick-Film Type Photostrictive Actuators," 6th Int'l Conf. on New Actuators (Actuator 98), Bremen, Germany, June 17-19, (1998).
151. Koc, B., Y. Xu and K. Uchino, "Roto-Linear Ultrasonic Motors," 6th Int'l Conf. on New Actuators (Actuator 98), Bremen, Germany, June 17-19, (1998).
152. Uchino, K., "Compact Piezoelectric Ultrasonic Motors," 1st NASA/JPL Workshop on Biomorphc Explorers for Future Missions, Pasadena, Aug. 19-20, (1998).

153. Uchino, K. and I. Hayashi, "New Solid State Actuators for Biomorphc Explorers," 1st NASA/JPL Workshop on Biomorphc Explorers for Future Missions, Pasadena, Aug. 19-20, (1998).
154. Dogan, A., P. Poosanaas, and K. Uchino, "Surface Characteristics on Photostrictive Behavior of PLZT Ceramics, " Proceedings in Ceramic Congress IV, Eskisehir, Turkey, (September 22-25, 1998).
155. Uchino, K. and H. Aburatani, "Field Induced Acoustic Emission in Ferroelectric Ceramics," IEEE Int'l Ultrasonic Symp., B-6, Sendai, Japan (October 5-8, 1998).
156. Belegundu, U., M. Pastor, X. H. Du, L. E. Cross and K. Uchino, "Domain Formation in $0.90\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.1\text{PbTiO}_3$ Single Crystals under the Electric Field along [111] Direction," IEEE Int'l Ultrasonic Symp., TT-3, Sendai, Japan (October 5-8, 1998).
157. Koc, B. and K. Uchino, "Ceramic Metal Composite Piezoelectric Motors," IEEE Int'l Ultrasonic Symp., YY-6, Sendai, Japan (October 5-8, 1998).
158. Abothu, I.R., P. Poosanaas, S. Komarneni, Y. Ito, and K. Uchino, "Nanocomposite Versus Monophasic Sol-Gel Processing of PLZT Ceramics," 2nd Asian Meeting on Ferroelectrics (AMF2), Singapore, (December, 8-11, 1998).
159. Abothu, I.R., Y. Ito, P. Poosanaas, S. Kalpat, S. Komarneni, and K. Uchino, " Sol-Gel Processing of Piezoelectric Thin Films, " 2nd Asian Meeting on Ferroelectrics (AMF2), Singapore, (December 8-11, 1998).
160. Liu, S.F., I. R. Abothu, S. Komarneni, P. Poosanaas, D-S. Paik, Y. Ito, and K. Uchino, " PLZT Ceramics Prepared From Conventional and Microwave Hydrothermal Powders, " 2nd Asian Meeting on Ferroelectrics (AMF2), Singapore, (December 8-11, 1998).
161. Belegundu, U., X. H. Du, and K. Uchino, "Comparision of Domain Formation in Rhombohedral and Tetragonal Crystals of $(1-x)\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}x\text{PbTiO}_3$ Single Crystals," ONR Transducer Workshop, Unversity Park, PA, (April, 1999).
162. Koc, B., P. Bouchilloux, and K. Uchino, "Piezoelectric Motor Array for Micro Air Vehicles," ONR Transducer Workshop, Unversity Park, PA (April, 1999).
163. Chen, Y. H., S. Hirose and K. Uchino, "Effects of Processing and Doping on PMN-PT Based Ceramics for High-Power Applications," ONR Transducer Workshop, Unversity Park, PA (April, 1999).
164. Du, X. H., U. Belegundu and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties in Ferroelectric Crystals (Part II)," ONR Transducer Workshop, Unversity Park, PA (April, 1999).

165. Du, X. H., U. Belegundu and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties in Perovskite Ferroelectrics," 27th ICAT Smart Actuator Symposium, State College, April (1999).
166. Chen, Y. H., S. Hirose and K. Uchino, "Dielectric and Electromechanical Properties of PMN-PT Based Ceramics for High-Power Applications," 27th ICAT Smart Actuator Symposium, State College, April (1999).
167. Koc, B., P. Bouchilloux, and K. Uchino, " Tiny Piezoelectric Ultrasonic Motor," 27th ICAT Smart Actuator Symposium, State College, April (1999).
168. Yao, K., Y. H. Chen, P. Bouchilloux, and K. Uchino, "Compact Langevin Vibrators with Increased Number of the Piezoelectric Layers," 27th ICAT Smart Actuator Symposium, State College, April 22-23 (1999).
169. Zheng, J. and K. Uchino, "Loss Mechanisms in Piezoelectric Actuators," 27th ICAT Smart Actuator Symposium, State College, April 22-23 (1999).
170. Kalpat, S., Y. Ito, X. Du, I. R. Abothu, and K. Uchino, "Dielectric and Piezoelectric Property Dependence of PZT Thin Films," 27th ICAT Smart Actuator Symposium, State College, April 22-23 (1999).
171. Belegundu, U., H. Aburatani, X. H. Du and K. Uchino, "Switching Current Dependence on Crystal Orientation for Relaxor Based Ferroelectric Single Crystals," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SE-76, Indianapolis, April 25 - 28 (1999).
172. Poosanaas, P., A. I. Robin, S. Komarneni, and K. Uchino, "Nanocomposite PLZT Ceramics for Photostrictive Materials," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-24, Indianapolis, April 25 - 28 (1999).
173. Du, X. H., U. Belegundu, S. S. Kalpat, and K. Uchino, "Crystal Orientation Dependence of Piezoelectric Properties in Some Single Crystals," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-38, Indianapolis, April 25 - 28 (1999).
174. Kalpat, S. S., Y. Ito, X. H. Du, I. R. Abothu, and K. Uchino, "Dielectric and Piezoelectric Property Dependence of PZT Thin Films," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-46, Indianapolis, April 25 - 28 (1999).
175. Yao, K., S. X. Dong, L. C. Lim, and K. Uchino, "Compact Hollow Multilayer Actuators Prepared from Hard Piezoelectric Materials," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-58, Indianapolis, April 25 - 28 (1999).

176. Chen, Y. H., S. Hirose and K. Uchino, "Doping and Processing Effects on PMN-PT Based Ceramics for High-Power Application," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-59, Indianapolis, April 25 - 28 (1999).
177. Zheng, J. H., B. Sugg and K. Uchino, "Heat Generation in Piezoelectric Actuators under Different Driving Conditions," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-60, Indianapolis, April 25 - 28 (1999).
178. Koc, B., A. Amin, P. Bouchiloux, and K. Uchino, "Disign of Circular Type Piezoelectric Transformer with Off-Centered Input Electrodes," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Dielectric Materials and Devices, SEP-65, Indianapolis, April 25 - 28 (1999).
179. Abothu, I. R., Y. Ito, S. Komarneni, and K. Uchino, "Processing $Pb(Co_{1/3}Nb_{2/3})O_3$ Ceramics by Sol-Gel Method," 101st Annual Mtg. of Amer. Ceram. Soc., Symp. Innovative Processing and Synthesis of Ceramics, SN-79, Indianapolis, April 25 - 28 (1999).
180. Koc, B., and K. Uchino, "Disk Type Piezoelectric Transformer with Crescent Shape Input Electrodes," NATO- Advanced Research Workshop: Piezoelectric Materials, Advance in Science, Technology and Applications, Predeal, Romania, May 24-27 (1999).
181. Koc, B., S. Alkoy and K. Uchino, "A Circular Piezoelectric Transformer with Crescent Shape Input Electrodes," Proc. IEEE Ultrasonic Symp., Lake Tahoe, Nevada, Oct. 17-21 (1999).
182. Kalpat, S., I. R. Abothu, A. Akiba, H. Goto, S. Trolier-McKinstry and K. Uchino, "Dielectric and Piezoelectric Property Dependence on Highly Textured (100), (111) and Random Thin Films Grown by RF Sputtering," Mater. Res. Soc. Fall Mtg. '99, LL.1.3, Boston, Nov. 29-Dec.3 (1999).
183. Uchino, K., J. Zheng, Y. H. Chen, X. Du, S. Hirose, "Loss Mechanisms in Piezoelectrics," Mater. Res. Soc. Fall Mtg. '99, LL.1.6, Boston, Nov. 29-Dec.3 (1999).
184. Belegundu, U., H. Aburatani and K. Uchino, "Studies on Switching Current in Relaxor Based (1-x)PZN-xPT Single Crystals," Mater. Res. Soc. Fall Mtg. '99, LL.1.9, Boston, Nov. 29-Dec.3 (1999).
185. Bouchilloux, P., K. Craig, B. Koc and K. Uchino, "Design and Construction of a Rotary and a Linear Ultrasonic Motors with Free Stators," Mater. Res. Soc. Fall Mtg. '99, LL.2.10, Boston, Nov. 29-Dec.3 (1999).

186. Zheng, J. and K. Uchino, "Determination of Energy Loss in Piezoelectric Actuators under Off-Resonance Driving," Mater. Res. Soc. Fall Mtg. '99, LL.5.7, Boston, Nov. 29-Dec.3 (1999).
187. Koc, B., Y. Gao and K. Uchino, "Disk Type Piezoelectric Transformer Design Employing High Power Piezoelectric Ceramic Material," Mater. Res. Soc. Fall Mtg. '99, LL.5.8, Boston, Nov. 29-Dec.3 (1999).
188. Chen, Y. H., S. Hirose, D. Viehland and K. Uchino, "Doping Effects in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Ceramics for High Power Transduction Applications," Mater. Res. Soc. Fall Mtg. '99, LL.5.9, Boston, Nov. 29-Dec.3 (1999).
189. Chen, Y. H., D. Viehland and K. Uchino "Comparison of the Doping Effect in PMN-PT and PSN-PT Based Ceramics," ONR Workshop on Acoustic Transduction Materials and Devices, University Park, PA, April 11-13 (2000).
190. Chen, Y. H. and K. Uchino, "Development of PMN-PT and PZN-PT Based Ceramics for High-Power Application," 30th ICAT Smart Actuator Symposium, State College, PA, April 20-21 (2000)
191. Chen, Y. H., S. Hirose, D. D. Viehland and K. Uchino "Heat Generation and Properties of PZT under High Level Resonance Driving with Different Polings", 102th Annual Mtg. Amer. Ceram. Soc., St. Louis, April 29 - May 3, D3P-006-00 (2000).
192. Ramakrishnan, P., Y. H. Chen and K. Uchino, "High Power Measuring System for Single Crystals", 102th Annual Mtg. Amer. Ceram. Soc., St. Louis, April 29 - May 3, D3P-007-00 (2000).
193. Du, X. H. and K. Uchino, "Determination of the Complex Elastic and Piezoelectric Coefficients for Piezoelectric Materials" ONR Transducer Material and Transducers Workshop, State College, PA, April 11-13 (2000).
194. Du, X. H. and K. Uchino, "Determination of the Piezoelectric Properties in Perovskite Ferroelectrics", 30th ICAT Smart Actuator Symposium, State Collage, April 20-21 (2000).
195. Uchino, K., J. Zheng and Y. H. Chen, "Heat Generation in Piezoelectrics," ONR Transducer Material and Transducers Workshop, State College, PA, April 11-13 (2000).
196. Zheng, J. and K. Uchino, "Hysteresis in Piezoelectrics", 30th ICAT Smart Actuator Symp., State College, PA, April 20-21 (2000).
197. Laoratanakul, P., B. Koc and K. Uchino, "Disk-type Piezoelectric Transformers," 30th ICAT Smart Actuator Symp., State College, PA, April 20-21 (2000).

198. Dong, S., S. P. Lim, K. H. Lee, L. C. Lim and K. Uchino, "Compact Piezoelectric Motor," 30th ICAT Smart Actuator Symp., State College, PA, April 20-21 (2000).
199. Zheng, J., B. Sugg, and K. Uchino, "Energy Loss in Piezoelectrics", 102th Annual Mtg. Amer. Ceram. Soc, St. Louis, April 29 - May 3, D3P-005-00 (2000).
200. Zhang, J. D., W. J. Hughes, R. J. Meyer Jr., K. Uchino and R. E. Newnham, "Cymbal Array: A Broad Band Sound Projector," 102th Annual Mtg. Amer. Ceram. Soc, St. Louis, April 29 - May 3, D3-005-00 (2000).
201. Belegundu, U. and K. Uchino, "High Power Piezoelectric Characteristics of $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ PZN-0.09PT Single Crystals: Part I," 102th Annual Mtg. Amer. Ceram. Soc, St. Louis, April 29 - May 3, D3-018-00 (2000).
202. Gao, Y. K., B. Koc and K. Uchino, "Electromechanical Properties of Ce and Fe Doped PbZrO_3 - PbTiO_3 - $\text{Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})\text{O}_3$ Ceramics," 102th Annual Mtg. Amer. Ceram. Soc, St. Louis, April 29 - May 3, D3P-004-00 (2000).
203. Gao, Y. K., B. Koc, K. Uchino and S. Takahashi, "PbZrO₃-PbTiO₃-Pb(Mn_{1/3}Sb_{2/3})O₃ Ceramics for Transformer Application," 30th ICAT Smart Actuator Symp., State College, PA, April 20-21 (2000).
204. Gao, Y. K., B. Koc, K. Uchino and S. Takahashi, "PbZrO₃-PbTiO₃-Pb(Mn_{1/3}Sb_{2/3})O₃ Ceramics for Transformer Application," ONR Transducer Material and Transducers Workshop, State College, PA, April 11-13 (2000).
205. Kalpat, S. S., A. Akiba, H. Goto and K. Uchino, "Highly Textured PZT and BaTiO₃ Thin Films for MEMS Devices", 102th Annual Mtg. Amer. Ceram. Soc., St. Louis, April 29 - May 3, D3P-008-00 (2000).
206. Koc, B., J. F. Tressler and K. Uchino, "A Miniature Piezoelectric Rotary Motor Using Two Orthogonal Bending Modes of a Hollow Cylinder," 7th Int'l Conf. New Actuators, Bremen, Germany, June 19-21 (2000).
207. Laoratanakul, P., A. Vazquez Carazo and K. Uchino, "Piezoelectric Transformers Operating in the Transverse Extensional Vibration Mode," 55th Annual Forum of PA Ceram. Assoc., University Park, PA, September (2000).
208. Belegundu, U. and K. Uchino, "Switching Current Dependence On Crystal Orientation In $(1-x)\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $x\text{PbTiO}_3$ Single Crystals," 12th IEEE International Symposium on Applications of Ferroelectrics, July 31-Aug 1, Honolulu, Hawaii (2000).
209. Uchino, K., U. Belegundu, J. Zheng and Y. H. Chen " Loss Mechanisms in Piezoelectrics" 12th IEEE International Symposium on Applications of Ferroelectrics, July 31-Aug 1, Honolulu, Hawaii (2000).

210. Uchino, K., U. Belegundu, P. Poosanaas and K. Tonooka "Photostrictive Actuators New Perspectives," 12th IEEE International Symposium on Applications of Ferroelectrics, July 31-Aug 1, 2000, Honolulu, Hawaii.
211. Uchino, K., P. Poosanaas and K. Tonooka, "Photostrictive Actuators –New Perspective–," Proc. 3rd Asian Mtg. Ferroelectrics, C3p.105, Hong Kong, Dec. 12-15 (2000).
212. Belegundu, U. and K. Uchino " Switching Characteristics of PZN PT Single Crystals," 102nd Annual Meeting of American Ceramic Society, April 29 -May 3, St. Louis, USA (2000).
213. Laoratanakul, P., A. Vazquez Carazo, P. Bouchilloux and K. Uchino, "Modeling Characterization of the Unipolarized Disk-Type Piezoelectric Transformers," 33rd ICAT Smart Actuator Symp., University Park, PA, April 20-21 (2001).
214. Gao, Y. and K. Uchino, "Rare Earth Metal Doping Effects on the Piezoelectric 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," 33rd ICAT Int'l Smart Actuator Symp., State College, PA, April 19-20 (2001).
215. Ramakrishnan, P. and K. Uchino, "High Power Measuring System for Piezoelectric Materials," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1C-17-2001, Indianapolis, April 22 - 25 (2001).
216. Kalpat, S. S., K. Uchino and A. Vazquez Carazo "Investigation of Piezoelectric Property of Highly Oriented PZT (100) and PZT (111) Thin Films," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1C-18-2001, Indianapolis, April 22 - 25 (2001).
217. Belegundu, U. and K. Uchino, "Switching Current Studies in $(1-x)\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $x\text{PbTiO}_3$ Single Crystals," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1D-08-2001, Indianapolis, April 22 - 25 (2001).
218. Vazquez Carazo, A., B. Koc and K. Uchino, "Piezoelectric Stack Actuator Driven by a Piezoelectric Transformer," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-02-2001, Indianapolis, April 22 - 25 (2001).
219. Laoratanakul, P., A. Vazquez Carazo and K. Uchino, "Piezoelectric Transformers Using the Thickness Vibration Mode," 103rd Annual Mtg. Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-03-2001, Indianapolis, April 22-25 (2001).
220. Liu, Y., K. Yao, J. Zheng and K. Uchino, "Finite Element Simulation of Heat Generation in Compact Piezoelectric Stacked Actuators," 103rd Annual Mtg.

- Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-04-2001, Indianapolis, April 22-25 (2001).
221. Cagatay, S., B. Koc, A. Vazquez Carazo and K. Uchino, "A Compact Ultrasonic Motor for Catheter Applications," 103rd Annual Mtg. Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-05-2001, Indianapolis, April 22-25 (2001).
 222. Sakaki, C., and K. Uchino, "Grain-Size Dependence of High Power Piezoelectric Characteristics," 103rd Annual Mtg. Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-07-2001, Indianapolis, April 22-25 (2001).
 223. Priya, S., U. Belegundu, A. Vazquez Carazo and K. Uchino, "High Power Piezoelectric of $(1-x) \text{Pb}(\text{Zn}_{1/3} \text{Nb}_{2/3}) \text{O}_3\text{-xPbTiO}_3$ Single Crystals," 103rd Annual Mtg. Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1F-08-2001, Indianapolis, April 22-25 (2001).
 224. Gao, Y. and K. Uchino, "Yb Substituent Effect on the Piezoelectric Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Mn,Sb})\text{O}_3$ Ceramics," 103rd Annual Mtg. Amer. Ceram. Soc., Symp. Advances in Dielectric Mater. & Multilayer Electronic Devices, A1G-09-2001, Indianapolis, April 22-25 (2001).
 225. Poosanaas-Burke, P., B. Vetayanugul, T. Wasanapiarnpong, S. Kuharuangrong and K. Uchino, "Investigations on High Response Speed and High Induced Strain of Photostrictive Doped PLZT Ceramics," 103rd Annual Mtg. of Amer. Ceram. Soc., Symp. Optoelectronic Mater. & Tech. in the Information Age, A2B-06-2001, Indianapolis, April 22 - 25 (2001).
 226. Dong, S., S. P. Lim, K. H. Lee, L. C. Lim, and K. Uchino, "A PZT Ceramic Tube-Shaped Piezoelectric Micromotor," 103rd Annual Mtg. of Amer. Ceram. Soc., Elec1- Electroactive Composite Mater. & Devices, Elec1A-01-2001, Indianapolis, April 22 - 25 (2001).
 227. Ryu, J., A. Vazquez Carazo, K. Uchino and H. Kim, "Magnetolectric Properties in the PZT/Terfenol-D Laminate Composites," 103rd Annual Mtg. of Amer. Ceram. Soc., Elec1- Electroactive Composite Mater. & Devices, Elec1C-07-2001, Indianapolis, April 22 - 25 (2001).
 228. Gao, Y., Y. -H. Chen, J. Ryu and K. Uchino, "Rare Earth Metal Doping Effect on the High Power Characteristics of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Mn,Sb})\text{O}_3$ Ceramics," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, VII.13, Baltimore, May 14-16 (2001).
 229. Ramakrishnan, P., K. Uchino and U. Belegundu, "High Power Measuring System for Ferroelectric Single Crystals," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, II.9, Baltimore, May 14-16 (2001).

230. Priya, S., U. Belegundu and K. Uchino, "High Power Measurement on $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystal: Effect of Phase Transition on Electromechanical Properties," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, II.10, Baltimore, May 14-16 (2001).
231. Uchino, K., B. Koc and A. Vazquez Carazo "Piezoelectric Transformers for Driving Piezoelectric Actuators," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, III.1, Baltimore, May 14-16 (2001).
232. Ryu, J., S. Priya, P. Bouchilloux and K. Uchino "Magnetic Field Dependence on the Magnetoelectric Properties in $\text{Pb}(\text{Zr,Ti})\text{O}_3/\text{Terfenol-D}$ Laminate Composites," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, V.7, Baltimore, May 14-16 (2001).
233. Dong, S., P. Bouchilloux, X. -H. Du and K. Uchino "A Ring Type Bimorph Piezoelectric Actuator," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, VI.7, Baltimore, May 14-16 (2001).
234. Koc, B., S. Cagatay and K. Uchino "A Piezoelectric Ultrasonic Motor Using Two Orthogonal Bending Modes of A Hollow Cylinder," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, VI.8, Baltimore, May 14-16 (2001).
235. Belegundu, U., T. Matsunaka and K. Uchino "Fabrication of 11 MHz Transducer for Intra-Vascular Applications Using PZN-PT Single Crystal," 01 US Navy Mtg. Acoustic Transduction Mater. & Devices, VIII.6, Baltimore, May 14-16 (2001).
236. Ryu, J., S. Priya, K. Uchino and H.-E. Kim, "Magnetoelectric Composites for Noise Sensors," 33rd Smart Actuator Symp., State College, PA, April 19 – 20 (2001).
237. Ryu, J., K. Uchino and H. Kim, "Piezoelectric and Magnetoelectric Properties of Lead Zirconate Titanate/Ni-Ferrite Particulate Composites," 33rd Smart Actuator Symp., State College, PA, April 19 – 20 (2001).
238. S. Priya, U. Belegundu, and K. Uchino, 33rd Smart Actuator Symp., State College, PA, April 19 – 20 (2001).
239. Ryu, J., S. Priya and K. Uchino, "Magnetoelectric Composite Sensors," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
240. Priya, S. and K. Uchino, "High Power Measurement on Mn-Substituted $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
241. Laoratanakul, P. and K. Uchino, "Designs and Characterizations of Multilayer Piezoelectric Transformers for High Power Applications," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).

242. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Micromotor," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
243. Manuspiya, S., P. Laoratanakul and K. Uchino, "Ultrasonic Motor Integrated with Piezoelectric Transformer," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
244. Gao, Y. and K. Uchino, "Development of High Power Piezoelectrics by Introducing Rare-Earth Elements into $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Sb,Mn})\text{O}_3$ Ceramics," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
245. Asumi, K., H. W. Kim and K. Uchino, " π -Shape L1B4-Type Ultrasonic Linear Motor," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
246. Bouchilloux, P. and K. Uchino, "Application of The Genetic Optimization Method to The Design of Ultrasonic Motors," 35th Smart Actuator Symp., State College, PA, April 18 – 19 (2002).
247. Laoratanakul, P. and K. Uchino, "Multilayer Piezoelectric Transformers," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-P-20-2002, St. Louis, MO, April 28 – May 1 (2002).
248. Uchino, K. and S. Priya, "Improved Electromechanical Properties of the Mn-Substituted $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ Single Crystals," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-P-16-2002, St. Louis, MO, April 28 – May 1 (2002).
249. Manuspiya, S. and K. Uchino, "Integration of A Piezoelectric Transformer and An Ultrasonic Motor," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-P-20-2002, St. Louis, MO, April 28 – May 1 (2002).
250. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Micromotors," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-P-17-2002, St. Louis, MO, April 28 – May 1 (2002).
251. Gao, Y. and K. Uchino, "Effect of Rare Earth Metal Substituents on the Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Sb,Mn})\text{O}_3$ Ceramics," 104th Annual Mtg. of Amer. Ceram. Soc., Symp. A.2-Dielectric Materials and Multilayer Electronic Devices, AMA.2-P-11-2002, St. Louis, MO, April 28 – May 1 (2002).
252. Uchino, K., "High Power Piezoelectrics and Heat Generation," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).

253. Liu, Y. and K. Uchino, "Dielectric, Mechanical and Piezoelectric Loss Mechanisms Modeling Using Time Domain Finite Elements," , 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
254. Priya, S. and K. Uchino, "Large Strain in Fe-Substituted $0.92\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.08PbTiO_3 Single Crystals," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
255. Bouchilloux, P. and K. Uchino, "Ultrasonic Motor Design Using Genetic Optimization," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
256. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Micromotor," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
257. Dong, S., S. Cagatay, K. Uchino and D. Viehland, "A Piezoelectric Composite Rotary Type Actuator," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
258. Laoratanakul, P. and K. Uchino, "Designs and Characterizations of Multilayer Piezoelectric Transformers for High Power Applications," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
259. Carazo, A. V. and K. Uchino, "Tranoner: New Generation of High Power Piezoelectric Transformers," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
260. Ryu, J., S. Priya, K. Uchino, "High Magnetoelectric Properties in $0.68\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.32PbTiO_3 and Terfenol-D Laminate Composites," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
261. Gao, Y. and K. Uchino, "Development of New High Power Piezoelectrics with Enhanced Vibration Velocity," 02 US Navy Workshop Acoustic Transduction Mater. & Devices, Baltimore, MD, May 13-15 (2002).
262. Manuspiya, S., P. Laoratanakul and K. Uchino, "Integration of A Piezoelectric Transformer and An Ultrasonic Motor," 17th Annual Graduate Exhibition, Penn State University, University Park, PA, April 7 (2002).
263. Priya, S. and K. Uchino, "Mechanical aging behavior of $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 and $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single crystals", International Joint Conference on Application of Ferroelectrics, Nara, Japan, (2002).

264. Dong, S., H. W. Kim, M. T. Strauss, K. Uchino and D. Viehland, "A Piezoelectric Shear-Shear Mode Ultrasonic Motor," 8th Int'l Conf. New Actuators, A4.2, Bremen, Germany, June 10-12 (2002).
265. Gao, Y. and K. Uchino, "Time Dependence of the Mechanical Quality Factor in 'Hard' Ferroelectrics: Development of an Internal Bias Field," 03 US Navy Workshop Acoustic Transduction Mater. & Devices, State College, PA, May 6-8 (2003).
266. Cagatay, S. and Uchino, K., "Ultrasonic Micromotors Using a Metal Tube and Piezoelectric Ceramic Plates," 03 US Navy Workshop Acoustic Transduction Mater. & Devices, State College, PA, May 6-8 (2003).
267. Gao, Y. and Kenji Uchino, "Rare Earth Elements Doping Effects on the Piezoelectric 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", The 5th International Conference on Intelligent Materials, State College, PA, June 14 -17 (2003).
268. Gao, Y. and Kenji Uchino, "Research Activities in the International Center for Actuators and Transducers", The 5th International Conference on Intelligent Materials, State College, PA, June 14 -17 (2003).
269. Cagatay, S., B. Koc and K. Uchino, "Ultrasonic Micromotors", The 5th International Conference on Intelligent Materials, Session 14, State College, PA, June 14 -17 (2003).
270. Manuspiya, S., T. Ezaki, B. Koc and K. Uchino, "Laptop Adapter Using a Piezoelectric Transformer-Drive Circuit Development", The 5th International Conference on Intelligent Materials, State College, PA, June 14 -17 (2003).
271. Ryu, J., H. W. Kim, and K. Uchino, "Effect of Yb Addition on the Sintering Behavior and High Power Piezoelectric Properties of $\text{Pb}(\text{Zr,Ti})\text{O}_3\text{-Pb}(\text{Mn,Nb})\text{O}_3$," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 - 17 (2003).
272. Ryu, J., S. Priya, and K. Uchino, "High Power Piezoelectric Characteristics of $\text{BiScO}_3\text{-PbTiO}_3\text{-Pb}(\text{Mn}_{1/3}\text{Nb}_{2/3})\text{O}_3$," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 - 17 (2003).
273. Ezaki, T., S. Manuspiya, P. Moses and K. Uchino, "Piezoelectric Transformers for High Power Module," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 - 17 (2003).
274. Uchino, K. and A. Vazquez Carazo, "High Power Piezoelectric Transformers - Their Applications to Smart Actuator Systems-," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 - 17 (2003).

275. Priya, S. and K. Uchino, "Design Considerations for Nonlead Piezoelectric Transformers," Fifth International Conference on Intelligent Materials (ICIM2003), State College, PA, June 14 – 17 (2003).
276. Uchino, K., Y. Gao and J. Ryu "Loss Mechanisms and High Power Piezoelectrics," Int'l Conf. on Electroceramics (ICE 2003), Boston, MA, Aug. 3-7 (2003)
277. Priya S. and K. Uchino, "High Power Piezoelectrics for Actuators and Transformers", 2003 MRS Fall Meeting, DI.6, Dec. 1-5 (2003).
278. Uchino, K., S. Cagatay, B. Koc., S. Dong, P. Bouchilloux and M. Strauss, "Micro Piezoelectric Ultrasonic Motors," 8th Japan Int'l SAMPE Symp., A6-5, Nov. 18-21 (2003).
279. Gao, Y. and K. Uchino, "The Comparison of External and Internal Dipolar Field Effects on Materials Properties and Domain Kinetics," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-21-2004, Indianapolis, April 18 - 21 (2004).
280. Priya, S. and K. Uchino, "Nonlead High-Power Piezoelectric Materials," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-37-2004, Indianapolis, April 18 - 21 (2004).
281. Kim, H., K. Uchino, R. Newnham, H. Hofmann, A. Batra, "Energy Harvesting Using Cymbal Transducers," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-71-2004, Indianapolis, April 18 - 21 (2004).
282. S. Cagatay, B. Koc and K. Uchino, "Piezoelectric Ultrasonic Motors Using Bulk PZT and Utilizing Two Orthogonal Bending Modes Of a Hollow Cylinder (Part 2)", 106th Annual Meeting and Exposition of the American Ceramic Society, April 18-21, Indianapolis, Indiana (2004).
283. Chu, B. S. Priya, S. O. Ural and K. Uchino, "Low-Temperature Sintering of PZT-Based Ceramics Using BiMnO₃ Additive," 106th Annual Mtg. of Amer. Ceram. Soc., Int'l Symp. Advanced Electronic Mater. & Devices, AM-S18-76-2004, Indianapolis, April 18 - 21 (2004).
284. Kim, H. W., A. Batra, H. Hofmann and K. Uchino, "Piezoelectric Energy Harvesting," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).
285. Ural, S. O., S. Priya and K. Uchino, "High Power Piezoelectric Transformer," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).
286. Cagatay, S., B. Koc and K. Uchino, "Micro Ultrasonic Motors," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).

287. Gao, Y. and K. Uchino, "High Power Piezoelectric Ceramics," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).
288. Priya, S. and K. Uchino, "Low Temperature Sintering of High Power Piezoelectric Ceramics," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).
289. Batra, A. and K. Uchino, "Energy Harvesting from Piezoelectrics," 41st ICAT Smart Actuator Symp., State College, PA, April 26-27 (2004).
290. Cagatay, S., B. Koc and K. Uchino, "Piezoelectric Ultrasonic Micromotors for Mechatronic Applications," 9th Int'l Conf. New Actuators, A4.2, Bremen, Germany, June 14-16 (2004).
291. Cagatay, S., B. Koc, K. Uchino, J. Hyun, J. Ryu, "Metal-Ceramic Composite Piezoelectric Motors", 2004 U.S. Navy Workshop on Acoustic Transduction Materials and Devices, III.3, State College, May 11-13 (2004).
292. Uchino, K., "Piezoelectric Transformers – New Perspective-," 04 US Navy Workshop Acoustic Transduction Mater. & Devices, III.5, State College, PA, May 11-3 (2004).
293. Priya, S., S. Ural, H. –W. Kim and K. Uchino, "Unipoled Piezoelectric Transformers," 04 US Navy Workshop Acoustic Transduction Mater. & Devices, III.8, State College, PA, May 11-3 (2004).
294. Kim, H. –W, A. Batra, S. Priya, K. Uchino, R. E. Newnham and H. Hofmann, "Energy Harvesting Using a "Cymbal" Transducer in Dynamic Environment," 04 US Navy Workshop Acoustic Transduction Mater. & Devices, IV.22, State College, PA, May 11-3 (2004).
295. Uchino, K., Y. Gao, S. Priya, S. Ural, R. J. Meyer, Jr. and A. H. Amin, "High Power Piezoelectrics –Principle, Materials and Applications-," 04 US Navy Workshop Acoustic Transduction Mater. & Devices, VI.4, State College, PA, May 11-3 (2004).
296. Gao, Y., S. Priya and K. Uchino, R. J. Meyer, Jr. and A. H. Amin, "High Power Piezoelectric Rare Earth Modified $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ - $\text{Pb}(\text{Sb}_{2/3}\text{Mn}_{1/3})\text{O}_3$ and $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ - $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Systems," 04 US Navy Workshop Acoustic Transduction Mater. & Devices, VI.14, State College, PA, May 11-3 (2004).
297. S. Priya, J. Zhang, H. W. Kim, S. Ural and K. Uchino, "Unipoled Piezoelectric Transformers for Automobile Lighting," 9th Int'l Conf. New Actuators, B8.2, Bremen, Germany, June 14-16 (2004).
298. Kim, H. W., A. Batra, S. Priya, K. Uchino, R. E. Newnham and H. F. Hofmann, "Energy Harvesting Using a Piezoelectric "Cymbal" Transducer in Dynamic

- Environment," 9th Int'l Conf. New Actuators, P119, Bremen, Germany, June 14-16 (2004).
299. Uchino, K., "Micro Piezoelectric Ultrasonic Motors," Engineered Adaptive Structures IV Conference, Banff, Canada, July 19-23 (2004).
 300. Uchino, K., "High Power Piezoelectric Transformers," Engineered Adaptive Structures IV Conference, Banff, Canada, July 19-23 (2004).
 301. Ahn, Cheol-Woo, Hyun-Cheol Song, Seung-Ho Park, Sahn Nahm, Kenji Uchino, and Shashank Priya, "Effect of CuO on the sintering temperature and piezoelectric properties of $\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3\text{-Pb}[(\text{Zn}_{0.8}\text{Ni}_{0.2})_{1/3}\text{Nb}_{2/3}]\text{O}_3+\text{MnO}_2+\text{Al}_2\text{O}_3$ ceramics," International Workshop on Piezoelectric Materials and Applications in Actuators, Korea, 04.29 (2004).
 302. S. Priya, and K. Uchino, "Novel high power piezoelectrics for transformers and actuators", Materials and Devices for Smart Systems Symposium, Mater. Res. Soc. Symposium Proceedings vol. 785, 23 – 32 (2004).
 303. Bhattacharya, N. and K.Uchino, "Loss Anisotropy in Lead Zirconate Titanate Based "Hard" Piezoelectric Ceramics", Joint International Smart Actuator Symposium, State College, PA, April 6-7 (2005).
 304. Bhattacharya, N. and K.Uchino, "Loss Anisotropy in Lead Zirconate Titanate Based "Hard" piezoelectric ceramics", 107th Annual Meeting of The American Ceramic Society Collocated with the IMAPS/ACerS CICMT, Baltimore, MD, April 10-13 (2005).
 305. Bhattacharya, N. and K.Uchino, "Loss Anisotropy in Lead Zirconate Titanate Based "Hard" Piezoelectric Ceramics", 2005 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 10-12 (2005).
 306. Tuncdemir, S., B. Koc and K. Uchino, "Piezoelectric Motor Using Cantilever Beam for 1-Degree-of-Freedom PiezoModule for MicroRobotic Applications", 44th ICAT/JTTAS Joint International Smart Actuator Symposium, State College, PA, April 6-7 (2005).
 307. Kim, H. -W, S. Priya, K. Uchino and R. E. Newnham "Piezoelectric Energy Harvesting", 44th ICAT/JTTAS Joint International Smart Actuator Symposium, State College, PA, April 6-7 (2005).
 308. Kim, H. -W., S. Priya, K. Uchino and R. E. Newnham "Piezoelectric Energy Harvesting", 107th Annual Meeting of The American Ceramic Society Collocated with the IMAPS/ACerS CICMT, Baltimore, MD, April 10-13 (2005).
 309. Kim, H. -W., S. Priya, K. Uchino and R. E. Newnham, "Energy Harvesting from a "Cymbal" Transducer under Cyclic Vibration Source", 2005 U.S. NAVY

- Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 10-12 (2005).
310. Ahn, C. -W., H.-C. Song, S.-H. Park, S. Nahm, K. Uchino, S. Priya, H.-G. Lee and N.-K. Kang, "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", *2005 U.S. Navy Workshop*, State College, PA (2005).
 311. Park, S. -H., S. Ural, K. Uchino, "Low Temperature Sintering of the Al_2O_3 and Bi_2O_3 added $0.8\text{Pb}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3\text{-}0.2\text{Pb}[(\text{Zn}_{0.8}\text{Ni}_{0.2})_{1/3}\text{Nb}_{2/3}]\text{O}_3$ ceramics", *44th ICAT International Smart Actuator Symposium*, State College, PA 16802 (2005)
 312. Ahn, C. -W., H.-C. Song, S. Nahm, S. Priya, S.-H. Park, K. Uchino, H.-G Lee, and N.-K. Kang, "The Effect of CuO and ZnO on the Microstructure and Sintering Temperature in Modified PZT Ceramics," *2nd International Workshop of Piezoelectric Materials and Applications*, Paderborn, Germany, May 22-25 (2005).
 313. Song, H. - C, C.-W. Ahn, S. Nahm, S.-H. Park, K. Uchino, H.-G Lee, and N.-K Kang, "The Microstructure and Piezoelectric Properties of $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{-BaTiO}_3$ Ceramics" *2nd International Workshop of Piezoelectric Materials and Applications*, Paderborn, Germany, May 22-25 (2005).
 314. Kim, H. -W., S. Priya, and K. Uchino, "Impedance Adaptation for Piezoelectric Energy harvesting", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
 315. Harris, J., S. Ural, and K. Uchino, "Linear Shear Mode Ultrasonic Motor", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
 316. Park, S. -H., S. Tuncdemir, K. Uchino, R. Eitel, A. Baker, and C. Randall, "Low Temperature Co-fired Ceramic (LTCC) Compatible Delta-shape Ultrasonic Motor", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
 317. Tuncdemir, S., M. T. Strauss, and K. Uchino, "Shear Mode Rotary Type Piezoelectric Micromotor with 1mm Diameter", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
 318. Ngamjarrojana, A., S. Ural, S. -H. Park, and K. Uchino, "Piezoelectric Property 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", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).

319. Mulvihill, M. L., K. J. Mansell, R. Lee and K. Uchino, "Piezoelectric Micro-Motors Enable Minimally Invasive Surgical Devices", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
320. Bhattacharya, N., and K. Uchino, "Loss Anisotropy in "Hard" lead zirconate titanate based ceramics", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
321. Uchino, K., N. Bhattacharya, S. -H. Park and S. O. Ural, "High Power Piezoelectric Components", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
322. Ural, S., S. -H. Park, S. Priya, and K. Uchino, "Low Temperature Piezoelectric Transformers with Copper Electrodes", 2006 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 9-11 (2006).
323. Uchino, K., "Piezoelectric Actuators 2006 – Expansion form IT/Robotics to Ecological/Energy Applications", 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, A1.0 (2006).
324. Kim, H.-W., S. Priya, and K. Uchino, "A New Method of Impedance Adaptation for Piezoelectric Energy Harvesting Using a Cymbal Transducer," 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, A5.4 (2006).
325. Park, S. -H, Y. -D. Kim, J. Harris, S. Tuncdemir, R. Eitel, A. Baker, C. Randall and K. Uchino, "Low Temperature Co-Fired Ceramic (LTCC) Compatible Ultrasonic Motors," 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, B7.3 (2006).
326. Ural, S., S. -H. Park, S. Priya and K. Uchino, "High Power Piezoelectric Transformers with Cofired Copper Electrodes- Part I," 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, P23 (2006).
327. Tuncdemir, S., M. T. Strauss and K. Uchino, "Shear Mode Rotary Type Piezoelectric Micromotor with 1 mm Diameter," 10th Int'l Conf. New Actuators, Bremen, Germany, June 14-16, B8.2 (2006).
328. Uchino, K., "Annual Report of the ICAT", 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).
329. Park, S. -H., S. Tuncdemir, R. Eitel, A. Baker, C. Randall, and K. Uchino, "Low Temperature Co-Fired Ceramic (LTCC) Compatible Ultrasonic Linear Motor," 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).
330. Ural, S., S. -H. Park, S. Priya, and K. Uchino, "Piezoelectric Transformers with Copper Electrodes," 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).

331. Tuncdemir, S., M. T. Strauss, and K. Uchino, "Multi-functional Micro Motors," 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).
332. Bhattacharya, N. and K. Uchino, "Loss Anisotropy in PZT Based "Soft Piezoelectric Ceramics"," 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).
333. Harris, J. and K. Uchino, "Linear Shear Mode Ultrasonic Actuator," 47th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 2-3 (2006).
334. Uchino, K., "Piezoelectric Actuators," CrossOver 2006, University Park, PA, Oct 12 (2006).
335. Mulvihill, M. and K. Uchino, "Piezoelectric Micromotors Enable Minimally Invasive Surgical Devices," CrossOver 2006, University Park, PA, Oct 12 (2006).
336. Tuncdemir, S., M. T Strauss, K. Uchino, "Multi Degree-of-Freedom Piezoelectric Micro Motor for Biomedical Applications", CrossOver 2006, University Park, PA, October 12 (2006).
337. Tuncdemir, S., M. T. Strauss, and K. Uchino, "Shear Mode Rotary Type Piezoelectric Tube Motor with 1mm Diameter", Mater Sci & Tech 2006, Cincinnati, Ohio, Oct 15-19 (2006).
338. Park, S. -H., S. Tuncdemir K. Uchino, R. Eitel, A. Baker, and C. Randall, "Low Temperature Co-fired Ceramic (LTCC) Compatible Delta-shape Ultrasonic Motor", Mater Sci & Tech 2006, Cincinnati, Ohio, Oct 15-19 (2006).
339. Bhattacharya, N., and K. Uchino, "Loss mechanisms in high power piezoelectric materials", Mater Sci & Tech 2006, Cincinnati, Ohio, Oct 15-19 (2006).
340. Ural, S. O., S. -H. Park, A. Ngamjarurojana, S. Priya, K. Uchino, "Low Temperature Sinterable Piezoelectric Transformers with Copper Electrodes", Mater Sci & Tech 2006, Cincinnati, Ohio, Oct 15-19 (2006).
341. Uchino, K., S. -H. Park, Y. -D. Kim, S. Tuncdemir, R. Eitel, A. Baker, and C. Randall, "Low Temperature Sintered Ultrasonic Motors," 5th Asian Mtg. Electroceramics, AO-20, Bangkok, Thailand, Dec 10-14 (2006).
342. Ural, S., S. -H. Park, S. Priya, and K. Uchino, "High Power Piezoelectric Transformers with Cofired Copper Electrodes," 5th Asian Mtg. Electroceramics, AO-22, Bangkok, Thailand, Dec 10-14 (2006).
343. Bhattacharya, N., and K. Uchino, "Loss Anisotropy in Lead Zirconate Titanate Based "Hard" Piezoelectric Ceramics and Its Impact on ATILA Software Simulations," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).

344. Uchino, K., "Ultrasonic Technologies – New Commercialized Applications," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
345. Park, S. –H., S. Tuncdemir, R. Eitel, A. Baker, C. Randall, and K. Uchino, "Low Temperature Co-Fired Ceramic (LTCC) Compatible Delta-Shape Ultrasonic Motor," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
346. Tuncdemir, S., M. T. Strauss, and K. Uchino, "Rotary Type Piezoelectric Tube Motor Using Shear Mode," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
347. Dogan, A., and K. Uchino, "Sensors and Actuators for Automobile Industry," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
348. Cho, K. –H., H. –Y. Park, C. –W. Ahn, H. –C. Song, S. Nahm, K. Uchino, and H. –G. Lee, "Effects of Grain Size and Density on the Piezoelectric Properties of 0.95(Na_{0.5}K_{0.5})NbO₃-0.05SrTiO₃ Ceramics," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
349. Nahm, S., Cho, H. –C. Song, K. –H. Cho, H. –Y. Park, C. –W. Ahn, K. Uchino, and H. –G. Lee, "Microstructure and Piezoelectric Properties of (1-x)(Na_{0.5}K_{0.5})NbO₃-xLiNbO₃ Ceramics," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
350. Park, H. –Y., H. –C. Song, K. –H. Cho, C. –W. Ahn, S. Nahm, K. Uchino, and H. –G. Lee, "Evaporation of Na₂O and Piezoelectric Properties of 0.95(Na_{0.5}K_{0.5})NbO₃-0.05BaTiO₃ Ceramics," 3rd Int'l Workshop on Piezoelectric Mater. & Appl. in Actuators, Anadolu Univ., Eskisehir, Turkey, June 18-21 (2006).
351. Park, S. –H., K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Integrated Optical Fiber Alignment Package with Piezoelectric Ultrasonic Motors," Center for Dielectric Studies Spring 2007 Meeting, State College, PA, April 9-10 (2007).
352. Park, S. –H., K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Piezoelectric Ultrasonic Motors Co-sintered with Low Temperature Cofired Ceramic(LTCC) for Optical Fiber Alignment," 2007 U.S. NAVY Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 15-17 (2007).
353. S. Tuncdemir, K. Uchino "Versatile Micromanipulating Tool Using 3-DOF Piezoelectric Ring-Morph Actuator", U.S. 2007 Navy Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 15-17 (2007).

354. Aditya Rajapurkar, Seung Ho Park, Seyit Ural, Neelanjan Bhattacharya, Kenji Uchino, "Anisotropic Loss Mechanisms in Piezoelectric Ceramics," U.S. Navy Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 15-17 (2007).
355. Uchino, K., S. -H. Park, S. Ural, "Low Temperature Sinterable High Power Piezoelectrics," U.S. Navy Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 15-17 (2007).
356. Uchino, K., T. Tremper, B. Park, P. Lewis, A. Vazquez Carazo, "Your Smart Materials Development Partner," U.S. Navy Workshop on Acoustic Transduction Materials and Devices, State College, PA, May 15-17 (2007).
357. Park, S. -H., K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Integrated Optical Fiber Alignment Package with Piezoelectric Ultrasonic Motors," 3rd Ceramic Interconnect and Ceramic Microsystems Technologies 2007, Denver, CO, April 23-26 (2007).
358. Tuncdemir S., and K. Uchino, "Piezoelectrically Activated Multi Degree-of-Freedom Smart Surface", Mater Sci & Tech 2007, Detroit, Michigan, Sep 16-20 (2007).
359. Ural S. O., and K. Uchino, "High Power Piezoelectric Devices: Material and Device Design", Mater Sci & Tech 2007, Detroit, Michigan, Sep 16-20 (2007).
360. Rajapurkar, A., S. Ural, S-H. Park, N. Bhattacharya and K. Uchino, "Anisotropic Loss Mechanisms in Piezoelectric Ceramics", Material Science and Technology 2007, Detroit, MI, Sept 16-20 (2007).
361. Rajapurkar, A., S. Ural, S-H. Park, N. Bhattacharya and K. Uchino, "Anisotropic Loss Mechanisms in Piezoelectric Ceramics", 50th ICAT/JTTAS Joint International Smart Actuator Symposium, State College, PA, Oct 9-10 (2007).
362. Tuncdemir, S., and K. Uchino, "Dexterous Microgripper Using Piezoelectric Ringmorph", 50th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 9-10 (2007).
363. Ural, S. O., and K. Uchino, "High Power Piezoelectric Devices: Material Aspects", 50th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 9-10 (2007).
364. Uchino, K., "Annual Report of the ICAT", 50th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 9-10 (2007).
365. Kang, J.-K., S.-H. Park and K. Uchino, "Piezoelectric Pump with a Cymbal Actuators for Laptop Cooling Applications", 50th Int'l Smart Actuator Symposium, ICAT, State College, PA, Oct 9-10 (2007).

366. Park, S.-H. Park, K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Integration of Piezoelectric Ultrasonic Motors into Low Temperature Cofired Ceramic(LTCC) for Active Optical Fiber Alignment", 50th International Smart Actuator Symposium, ICAT, State College, PA, Oct. 9-10 (2007).
367. Park, S.-H., K. Uchino, R. Eitel, A. Baker, C. A. Randall, "Integrated Optical Fiber Alignment Package with Piezoelectric Ultrasonic Motors", Center for Dielectric Studies Meeting 2007, State College PA, October (2007).

E. PATENTS

1. K. Uchino, Y. Murai, K. Ohmura, S. Nozaki and H. Sawa:
Solid State Display and Its Application to Projection Systems
Jpn. Patent (1810246).
2. K. Uchino, Y. Murai and K. Ohmura:
Manufacturing Process of Solid State Displays
Jpn. Patent (1801237).
3. S. Takahashi and K. Uchino:
Drive Technique of A Piezoelectric Printing Hammer
Jpn. Patent (1772776).
4. K. Uchino and K. Furuta:
Actuators
Jpn. Patent (1804239).
5. K. Uchino:
Photostrictive Actuator Materials
Jpn. Patent (1812154).
6. K. Uchino and S. Yoda:
Displacement Device and Its Relay Application
Jpn. Patent (2065885).
7. K. Kasai, N. Sakai, T. Oikawa and K. Uchino and T. Tsukidate:
Actuator
Jpn. Patent (H8-4158)
8. M. Tohda, K. Uchino, S. Ichikawa, S. Yoshioka and N. Inoue:
Support Mechanism of an Ultrasonic Linear Motor onto a Rail
Jpn. Utility Model Patent (06-19340).
9. K. Uchino and K. Ohnishi:
Shock Preventing Apparatus
US patent (4883248).
10. K. Uchino, K. Hikita and M. Ono:
Electro-Optical Effect Composition
Jpn. Patent (2564676) (October 3, 1996)
US Patent (5135897).
11. K. Kasai, N. Sakai, T. Oikawa, K. Uchino, T. Tsukidate, H. Asakura, H. Yamamura and H. Nagata: Actuator
Jpn. Patent (2098852) (October 22, 1996)
US Patent (4862029).

12. K. Uchino, K. Hikita, Y. Tanaka and M. Ono:
Photo-Driven Light beam Deflection Apparatus
Jpn. Patent (2605140) (February 13, 1997)
US Patent (5202790).
13. K. Uchino and K. Ohnishi:
Linear Motor
US Patent (4857791).
14. A. Hagimura and K. Uchino:
Electrostrictive Materials
Jpn. Patent (2579334) (November 7, 1996)
15. K. Uchino and B. Koc:
Annular Piezoelectric Transformer
US Patent (05814922) (September 29, 1998)
16. M. Sumita and K. Uchino:
Damping Materials
Jpn. Patent (3-205293) (Aug. 15, 1998)
17. B. Koc and K. Uchino:
Ultrasonic Motor
US Patent (05955820) (September 21, 1999)
18. K. Uchino, X. –H. Du, U. Belegundu
Piezoelectric Component and its Fabrication Method
Jpn. Patent (Application No. Hei10-48951, Disclosure No. Hei11-233844) (Aug. 1999)
19. K. Uchino and B. Koc:
Micro Air/Underwater Vehicle Powered by Piezoelectric Motor of Motor Array
US Patent (PSU Invention Disclosure No. 99-2090)
20. K. Uchino, S. Dong and M. T. Strauss
Piezoelectric Motor and Method of Exciting an Ultrasonic Traveling Wave to Drive the Motor
PSU Invention Disclosure No. 2002-2623/ US Patent Application No. 10855260
US Patent No. 7,307,372 B2
21. K. Uchino and Y. Gao:
High Power Piezoelectric Ceramics
US Patent (6,811,718) (November 2, 2004)
22. K. Uchino and J. Ryu:
High Power and High Temperature Piezoelectric Ceramics
US Patent (PSU Invention Disclosure) [submitted in 2003]

23. S. Priya and K. Uchino:
High Power Unipoled Piezoelectric Transformers
US Patent (Provisional 60/565,416) (4/26/2004)
24. K. Uchino, V. Gopalan, B. Koc and D. Scrymgeour:
Hybrid 2-Dimensional Laser Beam Steering
US Patent (PSU Invention Disclosure No. 2005-3072) (May, 2005)
25. K. Uchino, C. A. Randall, R. Eitel, J. Agraz and S. -H. Park:
Piezoelectric Linear Ultrasonic Motor
US Patent (PSU Invention Disclosure No. 2005-3040) (May, 2005)
26. S. Tuncdemir, S.S. O. Ural, M. T. Strauss and K. Uchino:
Method and Apparatus for Electrode Laydown on Curved Surface Eliminating the
Need of Screen or Die
PSU Invention Disclosure (December, 2005)
27. Maureen Mulvihill, Kenji Uchino, Gereth Knowles, Robert Harbaugh:
Piezoelectric Micro-Device for Blockage Removal
Provisional Appl. # 60/751,066 (December 16, 2005)
Non-Provisional Filed on Dec. 11, 2006.
28. G. Knowles, M. Mulvihill, K. Uchino and B. Shea:
Solid State Gimbal System
U.S. Provisional Application Number 60/692,938 (Filed June 22, 2005)
29. K. Uchino, C. A. Randall, R. Eitel, S.-H. Park:
Integrated Optical Fiber Alignment Package
PSU Invention Disclosure 2007-3323 (April, 2007)
30. S.Tuncdemir, M.T. Strauss, K. Uchino:
Piezoelectric Micro Motor
PSU Invention Disclosure No: 2006-3212. May-2006
31. S. Tuncdemir, D. Ahmed, K. Uchino
Piezoelectric Manipulator
US Application No. 60/930,318, May-2007