

Susan E Trolier-Mckinstry

List of Publications by Year in descending order

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491
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509
docs citations

509
times ranked

11596
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin Film Piezoelectrics for MEMS. , 2004, 12, 7-17.		880
2	Templated Grain Growth of Textured Piezoelectric Ceramics. Critical Reviews in Solid State and Materials Sciences, 2004, 29, 45-96.	6.8	513
3	Domain wall motion and its contribution to the dielectric and piezoelectric properties of lead zirconate titanate films. Journal of Applied Physics, 2001, 89, 1336-1348.	1.1	472
4	High Energy Density Capacitors Utilizing 0.7 BaTiO ₃ –0.3 BiScO ₃ Ceramics. Journal of the American Ceramic Society, 2009, 92, 1719-1724.	1.9	462
5	The Properties of Ferroelectric Films at Small Dimensions. Annual Review of Materials Research, 2000, 30, 263-298.	5.5	461
6	Giant Piezoelectricity on Si for Hyperactive MEMS. Science, 2011, 334, 958-961.	6.0	394
7	Weakly Coupled Relaxor Behavior of BaTiO ₃ –BiScO ₃ Ceramics. Journal of the American Ceramic Society, 2009, 92, 110-118.	1.9	326
8	Templated Grain Growth of Textured Bismuth Titanate. Journal of the American Ceramic Society, 1999, 82, 921-926.	1.9	303
9	Piezoelectric Thin Films for Sensors, Actuators, and Energy Harvesting. MRS Bulletin, 2009, 34, 658-664.	1.7	299
10	Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays for Integrated Sensing, Actuation and Imaging. Sensors, 2015, 15, 8020-8041.	2.1	257
11	Thin-film piezoelectric MEMS. MRS Bulletin, 2012, 37, 1007-1017.	1.7	256
12	Domain wall contributions to the properties of piezoelectric thin films. Journal of Electroceramics, 2007, 19, 49-67.	0.8	252
13	Bismuth zinc niobate pyrochlore dielectric thin films for capacitive applications. Journal of Applied Physics, 2001, 89, 767-774.	1.1	233
14	Characterization of ferroelectric lead zirconate titanate films by scanning force microscopy. Journal of Applied Physics, 1997, 81, 7480-7491.	1.1	211
15	Piezoelectric properties of textured Pb(Mg _{1/3} Nb _{2/3})O ₃ –PbTiO ₃ ceramics. Applied Physics Letters, 2001, 78, 2551-2553.	1.5	207
16	Piezoelectric properties of zirconium-doped barium titanate single crystals grown by templated grain growth. Journal of Applied Physics, 1999, 86, 1657-1661.	1.1	200
17	Anomalous broad dielectric relaxation in Bi _{1.5} Zn _{1.0} Nb _{1.5} O ₇ pyrochlore. Physical Review B, 2002, 66, .	1.1	193
18	The wafer flexure technique for the determination of the transverse piezoelectric coefficient (d ₃₁) of PZT thin films. Sensors and Actuators A: Physical, 1998, 71, 133-138.	2.0	184

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19	Dielectric and Electromechanical Properties of Textured Niobium-Doped Bismuth Titanate Ceramics. Journal of the American Ceramic Society, 2000, 83, 113-118.	1.9	169
20	Temperature dependence of the piezoelectric response in lead zirconate titanate films. Journal of Applied Physics, 2004, 95, 1397-1406.	1.1	169
21	Flexible Technologies for Self-Powered Wearable Health and Environmental Sensing. Proceedings of the IEEE, 2015, 103, 665-681.	16.4	166
22	Phase transitions and domain structures in strained pseudocubic (100)SrTiO ₃ thin films. Physical Review B, 2006, 73, .	1.1	160
23	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. MRS Bulletin, 2014, 39, 1099-1111.	1.7	155
24	Phase development and electrical property analysis of pulsed laser deposited Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ (70/30) epitaxial thin films. Journal of Applied Physics, 1998, 84, 5147-5154.	1.1	152
25	(Reactive) Templated Grain Growth of Textured Sodium Bismuth Titanate (Na _{1/2} Bi _{1/2} TiO ₃ -BaTiO ₃) Ceramics II Dielectric and Piezoelectric Properties. , 2003, 11, 217-226.		149
26	Fabrication and Electrical Properties of Textured Sr _{0.53} Ba _{0.47} Nb ₂ O ₆ Ceramics by Templated Grain Growth. Journal of the American Ceramic Society, 2000, 83, 2203-2213.	1.9	149
27	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. Journal of the American Ceramic Society, 2016, 99, 2537-2557.	1.9	146
28	Dielectric and piezoelectric properties of fiber-textured 0.675Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.325PbTiO ₃ ceramics. Journal of Applied Physics, 2003, 93, 4072-4080.	1.1	143
29	High-Performance Piezoelectric Crystals, Ceramics, and Films. Annual Review of Materials Research, 2018, 48, 191-217.	4.3	137
30	(Reactive) Templated Grain Growth of Textured Sodium Bismuth Titanate (Na _{1/2} Bi _{1/2} TiO ₃ -BaTiO ₃) Ceramics I Processing. , 2003, 11, 207-215.		133
31	High Strain, 001> Textured 0.675Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.325PbTiO ₃ Ceramics: Templated Grain Growth and Piezoelectric Properties. Journal of the American Ceramic Society, 2005, 88, 312-317.	1.9	128
32	Efficient Piezoelectric Energy Harvesters Utilizing (001) Textured Bimorph PZT Films on Flexible Metal Foils. Advanced Functional Materials, 2016, 26, 5940-5946.	7.8	127
33	Medium permittivity bismuth zinc niobate thin film capacitors. Journal of Applied Physics, 2003, 94, 1941-1947.	1.1	123
34	Characterization and aging response of the d ₃₁ piezoelectric coefficient of lead zirconate titanate thin films. Journal of Applied Physics, 1999, 85, 6711-6716.	1.1	121
35	Ferroelectricity in Ultrathin BaTiO ₃ Films: Probing the Size Effect by Ultraviolet Raman Spectroscopy. Physical Review Letters, 2009, 103, 177601.	2.9	121
36	001 textured (K _{0.5} Na _{0.5})(Nb _{0.975} Sb _{0.03})O ₃ piezoelectric ceramics with high electromechanical coupling over a broad temperature range. Applied Physics Letters, 2009, 95, .	1.5	117

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37	Design, fabrication, and measurement of high-sensitivity piezoelectric microelectromechanical systems accelerometers. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 433-439.	1.7	116
38	Room-Temperature Voltage Tunable Phonon Thermal Conductivity via Reconfigurable Interfaces in Ferroelectric Thin Films. <i>Nano Letters</i> , 2015, 15, 1791-1795.	4.5	116
39	Collective dynamics underpins Rayleigh behavior in disordered polycrystalline ferroelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7219-7224.	3.3	112
40	Substrate Clamping Effects on Irreversible Domain Wall Dynamics in Lead Zirconate Titanate Thin Films. <i>Physical Review Letters</i> , 2012, 108, 157604.	2.9	109
41	Band gap and structure of single crystal BiI ₃ : Resolving discrepancies in literature. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	109
42	Piezoelectric nonlinearity due to motion of 180° domain walls in ferroelectric materials at subcoercive fields: A dynamic poling model. <i>Applied Physics Letters</i> , 2006, 88, 202901.	1.5	107
43	Dielectric and piezoelectric properties of lead-free (Bi,Na)TiO ₃ -based thin films. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	107
44	Longitudinal piezoelectric coefficient measurement for bulk ceramics and thin films using pneumatic pressure rig. <i>Journal of Applied Physics</i> , 1999, 86, 588-594.	1.1	104
45	Lead-zirconate-titanate-based piezoelectric micromachined switch. <i>Applied Physics Letters</i> , 2003, 83, 174-176.	1.5	101
46	Sub- kT/q Switching in Strong Inversion in PbZr _{0.52} Ti _{0.48} O ₃ Gated Negative Capacitance FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2015, 1, 43-48.	1.1	101
47	Lead zirconate titanate films for d ₃₃ mode cantilever actuators. <i>Sensors and Actuators A: Physical</i> , 2003, 105, 91-97.	2.0	96
48	Ferroelectric-thermoelectricity and Mott transition of ferroelectric oxides with high electronic conductivity. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3971-3988.	2.8	95
49	High Energy Density Dielectrics and Capacitors for Elevated Temperatures: Ca(Zr,Ti)O ₃ . <i>Journal of the American Ceramic Society</i> , 2013, 96, 1209-1213.	1.9	95
50	Reactive magnetron co-sputtered antiferroelectric lead zirconate thin films. <i>Applied Physics Letters</i> , 1995, 67, 2014-2016.	1.5	92
51	Kinetics of Templated Grain Growth of 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.35PbTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2001, 84, 2507-2513.	1.9	91
52	Pt/Ti/SiO ₂ /Si substrates. <i>Journal of Materials Research</i> , 1995, 10, 1508-1515.	1.2	90
53	Relaxor ferroelectricity in strained epitaxial SrTiO ₃ thin films on DyScO ₃ substrates. <i>Applied Physics Letters</i> , 2006, 88, 192907.	1.5	88
54	Thermal expansion of the new perovskite substrates DyScO ₃ and GdScO ₃ . <i>Journal of Materials Research</i> , 2005, 20, 952-958.	1.2	85

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55	Structural and Dielectric Properties in $(1-x)BaTiO_3-xBi(Mg_{1-x}O_3)_{0.5}$ Ceramics (0.1% x to 0.5) and Potential for High-Voltage Multilayer Capacitors. Journal of the American Ceramic Society, 2013, 96, 2197-2202.	1.9	84
56	Antiferroelectrics: History, fundamentals, crystal chemistry, crystal structures, size effects, and applications. Journal of the American Ceramic Society, 2021, 104, 3775-3810.	1.9	83
57	Dielectric nonlinearity of $Pb(Yb_{1-x}Nb_{1-x})O_3$ $PbTiO_3$ thin films with {100} and {111} crystallographic orientation. Journal of Applied Physics, 2005, 97, 064106.	1.1	81
58	$Sr_xBa_{1-x}Nb_2O_6$ Ferroelectric-thermoelectrics: Crystal anisotropy, conduction mechanism, and power factor. Applied Physics Letters, 2010, 96, .	1.5	80
59	Dielectric and piezoelectric properties of sol-gel derived lead magnesium niobium titanate films with different textures. Journal of Applied Physics, 2001, 89, 568-574.	1.1	79
60	The existence and impact of persistent ferroelectric domains in $MAPbI_3$. Science Advances, 2019, 5, eaas9311.	4.7	77
61	Lead zirconate titanate MEMS accelerometer using interdigitated electrodes. Sensors and Actuators A: Physical, 2003, 107, 26-35.	2.0	75
62	Vibration of micromachined circular piezoelectric diaphragms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 697-706.	1.7	70
63	Surface Micromachined Microelectromechanical Ohmic Series Switch Using Thin-Film Piezoelectric Actuators. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2642-2654.	2.9	69
64	Thermopower in highly reduced n -type ferroelectric and related perovskite oxides and the role of heterogeneous nonstoichiometry. Physical Review B, 2009, 79, .	1.1	68
65	The influence of energetic bombardment on the structure and properties of epitaxial $SrRuO_3$ thin films grown by pulsed laser deposition. Journal of Applied Physics, 1998, 83, 4373-4379.	1.1	66
66	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. Advanced Functional Materials, 2014, 24, 1409-1417.	7.8	66
67	Grain size effect on the dielectric nonlinearity of $BaTiO_3$ ceramics. Journal of Applied Physics, 2010, 107, .	1.1	65
68	Orientation dependence of fatigue behavior in relaxor ferroelectric $PbTiO_3$ thin films. Journal of Applied Physics, 2000, 87, 3965-3972.	1.1	64
69	$\frac{3}{2} \frac{d}{dx} \left(\frac{1}{x} \right) = -\frac{3}{2x^2}$	1.1	63
70	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. APL Materials, 2018, 6, .	2.2	62
71	Fatigue anisotropy in single crystal $Pb(Zn_{1/3}Nb_{2/3})O_3$ $PbTiO_3$. Journal of Applied Physics, 2000, 88, 7272-7277.	1.1	61
72	Critical thickness of high structural quality $SrTiO_3$ films grown on orthorhombic (101) $DyScO_3$. Journal of Applied Physics, 2008, 104, .	1.1	61

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73	Strongly (001) Oriented Bimorph PZT Film on Metal Foils Grown by rf -Sputtering for Wrist-Worn Piezoelectric Energy Harvesters. <i>Advanced Functional Materials</i> , 2018, 28, 1801327.	7.8	61
74	Microstructure development and piezoelectric properties of highly textured CuO-doped KNN by templated grain growth. <i>Journal of Materials Research</i> , 2010, 25, 687-694.	1.2	60
75	Processing, texture quality, and piezoelectric properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{TiO}_3$ - PbTiO_3 ceramics. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	60
76	Structural and electrical characterization of $\text{BiScO}_3(1-x)\text{BaTiO}_3$ thin films. <i>Journal of Applied Physics</i> , 2007, 101, 024112.	1.1	59
77	Si-compatible candidates for high- P dielectrics with the P structure. <i>Physical Review B</i> , 2010, 82, .	1.1	59
78	Epitaxial Growth of Anisotropically Shaped, Single-crystal Particles of Cubic SrTiO_3 . <i>Journal of Materials Research</i> , 2000, 15, 846-849.	1.2	58
79	Templated Grain Growth of Barium Titanate Single Crystals. <i>Journal of the American Ceramic Society</i> , 2000, 83, 2654-2660.	1.9	58
80	Sensing characteristics of in-plane polarized lead zirconate titanate thin films. <i>Applied Physics Letters</i> , 1999, 75, 4180-4182.	1.5	57
81	Switching spectroscopy piezoresponse force microscopy of polycrystalline capacitor structures. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	57
82	Microelectromechanical systems (MEMS) accelerometers using lead zirconate titanate thick films. <i>IEEE Electron Device Letters</i> , 2002, 23, 182-184.	2.2	56
83	Enhanced flexoelectricity through residual ferroelectricity in barium strontium titanate. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	55
84	Fast Magnetic Domain-Wall Motion in a Ring-Shaped Nanowire Driven by a Voltage. <i>Nano Letters</i> , 2016, 16, 2341-2348.	4.5	55
85	Ferroelectric Switching in Sub-20 nm Aluminum Scandium Nitride Thin Films. <i>IEEE Electron Device Letters</i> , 2020, 41, 1774-1777.	2.2	55
86	Ferroelectrics everywhere: Ferroelectricity in magnesium substituted zinc oxide thin films. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	55
87	Strongly temperature dependent ferroelectric switching in AlN , $\text{Al}_{1-x}\text{Sc}_x\text{N}$, and $\text{Al}_{1-x}\text{B}_x\text{N}$ thin films. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	55
88	Growth and properties of (001) BiScO_3 - PbTiO_3 epitaxial films. <i>Applied Physics Letters</i> , 2002, 81, 2065-2066.	1.5	54
89	Polarization fatigue in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 ferroelectric single crystals. <i>Journal of Applied Physics</i> , 2001, 89, 5100-5106.	1.1	53
90	Ferroelectricity in boron-substituted aluminum nitride thin films. <i>Physical Review Materials</i> , 2021, 5, .	0.9	53

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91	Effect of Grain Size on Dielectric Nonlinearity in Model BaTiO ₃ -Based Multilayer Ceramic Capacitors. Journal of the American Ceramic Society, 2011, 94, 194-199.	1.9	52
92	{001} Oriented piezoelectric films prepared by chemical solution deposition on Ni foils. Journal of Applied Physics, 2014, 116, .	1.1	52
93	Cubic Pyrochlore Bismuth Zinc Niobate Thin Films for High-Temperature Dielectric Energy Storage. Journal of the American Ceramic Society, 2015, 98, 1223-1229.	1.9	52
94	High frequency piezoelectric MEMS ultrasound transducers. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2422-2430.	1.7	51
95	Thermal Conductivity of Aluminum Scandium Nitride for 5G Mobile Applications and Beyond. ACS Applied Materials & Interfaces, 2021, 13, 19031-19041.	4.0	51
96	Origin of preferential orthorhombic twinning in SrRuO ₃ epitaxial thin films. Applied Physics Letters, 2000, 76, 3382-3384.	1.5	50
97	Dielectric and ferroelectric properties of Ta-doped bismuth titanate. Journal of Materials Science Letters, 2000, 19, 1661-1664.	0.5	49
98	Residual stress development in Pb(Zr,Ti)O ₃ /ZrO ₂ /SiO ₂ stacks for piezoelectric microactuators. Thin Solid Films, 2006, 510, 213-221.	0.8	49
99	Influence of Mn doping on domain wall motion in Pb(Zr _{0.52} Ti _{0.48})O ₃ films. Journal of Applied Physics, 2011, 109, .	1.1	49
100	Domain Wall Motion in A and B Site Donor-Doped Pb(Zr _{0.52} Ti _{0.48})O ₃ Films. Journal of the American Ceramic Society, 2012, 95, 2906-2913.	1.1	49
101	Spectroscopic ellipsometry studies on ion beam sputter deposited Pb(Zr, Ti)O ₃ films on sapphire and Pt-coated silicon substrates. Thin Solid Films, 1993, 230, 15-27.	0.8	47
102	Sensors, Actuators, and Smart Materials. MRS Bulletin, 1993, 18, 27-33.	1.7	47
103	In Situ Annealing Studies of Sol-Gel Ferroelectric Thin Films by Spectroscopic Ellipsometry. Journal of the American Ceramic Society, 1995, 78, 1907-1913.	1.9	46
104	A Photoacoustic Imaging Device Using Piezoelectric Micromachined Ultrasound Transducers (PMUTs). IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 801-809.	1.7	46
105	Dielectric and piezoelectric properties of textured Sr _{0.53} Ba _{0.47} Nb ₂ O ₆ ceramics prepared by templated grain growth. Journal of Materials Research, 2002, 17, 2399-2409.	1.2	45
106	Molten salt synthesis of anisometric particles in the SrO-Nb ₂ O ₅ -BaO system. Materials Research Bulletin, 2004, 39, 1679-1689.	2.7	45
107	CMOS Ultrasound Transceiver Chip for High-Resolution Ultrasonic Imaging Systems. IEEE Transactions on Biomedical Circuits and Systems, 2009, 3, 293-303.	2.7	45
108	Designing piezoelectric films for micro electromechanical systems. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1782-1792.	1.7	45

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109	Micromachined piezoelectric diaphragms actuated by ring shaped interdigitated transducer electrodes. <i>Sensors and Actuators A: Physical</i> , 2005, 119, 521-527.	2.0	44
110	Molten Salt Synthesis of Anisotropic Sr ₂ Nb ₂ O ₇ Particles. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1565-1568.	1.9	43
111	Residual ferroelectricity in barium strontium titanate thin film tunable dielectrics. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	43
112	Piezoelectric and dielectric reliability of lead zirconate titanate thin films. <i>Journal of Materials Research</i> , 2000, 15, 2505-2513.	1.2	42
113	Bismuth pyrochlore thin films for dielectric energy storage. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	42
114	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , 2015, 98, 1848-1857.	1.9	42
115	Growth of (103) fiber-textured SrBi ₂ Nb ₂ O ₉ films on Pt-coated silicon. <i>Applied Physics Letters</i> , 2002, 80, 2371-2373.	1.5	41
116	Design of MEMS PZT Circular Diaphragm Actuators to Generate Large Deflections. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 832-839.	1.7	40
117	Synthesis, Phase Characterization, and Properties of Chemical Solution-Deposited Nickel Manganite Thermistor Thin Films. <i>Journal of the American Ceramic Society</i> , 2009, 92, 738-744.	1.9	40
118	Relaxor Ferroelectric Behavior in Barium Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1645-1650.	1.9	40
119	Chemical Solution-Deposited BaTiO ₃ Thin Films on Ni Foils: Microstructure and Interfaces. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1845-1850.	1.9	39
120	Sputter deposition of PZT piezoelectric films on thin glass substrates for adjustable x-ray optics. <i>Applied Optics</i> , 2013, 52, 3412.	0.9	39
121	Voltage-Controlled Bistable Thermal Conductivity in Suspended Ferroelectric Thin-Film Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25493-25501.	4.0	39
122	Thickness dependence of dielectric nonlinearity of lead zirconate titanate films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 1717-1723.	1.7	38
123	Quantification of octahedral rotations in strained LaAlO ₃ films via synchrotron x-ray diffraction. <i>Physical Review B</i> , 2013, 88, .	1.1	38
124	Upshift of Phase Transition Temperature in Nanostructured PbTiO ₃ Thick Film for High Temperature Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11980-11987.	4.0	38
125	<i>In situ</i> measurement of increased ferroelectric/ferroelastic domain wall motion in de-clamped tetragonal lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	38
126	Efficient Energy Harvesting Using Piezoelectric Compliant Mechanisms: Theory and Experiment. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.0	37

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127	Effect of piezoelectric layer thickness and poling conditions on the performance of cantilever piezoelectric energy harvesters on Ni foils. <i>Sensors and Actuators A: Physical</i> , 2018, 273, 90-97.	2.0	37
128	Dielectric, ferroelectric, and piezoelectric properties of (001) BiScO ₃ /PbTiO ₃ epitaxial films near the morphotropic phase boundary. <i>Journal of Materials Research</i> , 2004, 19, 568-572.	1.2	36
129	Low-temperature crystallized pyrochlore bismuth zinc niobate thin films by excimer laser annealing. <i>Applied Physics Letters</i> , 2005, 87, 232905.	1.5	36
130	Piezoelectric nonlinearity in ferroelectric thin films. <i>Journal of Applied Physics</i> , 2006, 100, 044107.	1.1	36
131	Oxygen vacancy motion in Er-doped barium strontium titanate thin films. <i>Applied Physics Letters</i> , 2006, 89, 172906.	1.5	36
132	Influence of anisotropic strain on the dielectric and ferroelectric properties of SrTiO_3 films on DyScO_3 . <i>Physical Review B</i> , 2009, 79, .	1.1	36
133	Wearable inertial energy harvester with sputtered bimorph lead zirconate titanate (PZT) thin-film beams. <i>Smart Materials and Structures</i> , 2018, 27, 085026.	1.8	36
134	Size Effects and Domains in Ferroelectric Thin Film Actuators. <i>Materials Research Society Symposia Proceedings</i> , 1996, 433, 363.	0.1	35
135	Processing and Electrical Properties of 0.5Pb(Yb _{1/2} Nb _{1/2})O ₃ -0.5PbTiO ₃ Ceramics. , 2003, 10, 47-55.		35
136	Design and Fabrication of a Lead Zirconate Titanate (PZT) Thin Film Acoustic Sensor. <i>Integrated Ferroelectrics</i> , 2003, 54, 595-606.	0.3	35
137	Influence of electrical cycling on polarization reversal processes in Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ ferroelectric single crystals as a function of orientation. <i>Journal of Applied Physics</i> , 2004, 95, 4296-4302.	1.1	35
138	Disorder Identification in Hysteresis Data: Recognition Analysis of the Random-Bond/Random-Field Ising Model. <i>Physical Review Letters</i> , 2009, 103, 157203.	2.9	35
139	Piezoelectricity in ferroelectric thin films: Domain and stress issues. <i>Ferroelectrics</i> , 1998, 206, 381-392.	0.3	34
140	Excimer Laser Crystallized (Pb,La)(Zr,Ti)O ₃ Thin Films. <i>Journal of the American Ceramic Society</i> , 2008, 91, 1580-1585.	1.9	34
141	Grain size dependence of properties in lead nickel niobate-lead zirconate titanate films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	34
142	Pyroelectric response of lead zirconate titanate thin films on silicon: Effect of thermal stresses. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	34
143	Efficient parametric amplification in micro-resonators with integrated piezoelectric actuation and sensing capabilities. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	34
144	Polarization-based perturbations to thermopower and electronic conductivity in highly conductive tungsten bronze structured (Sr,Ba)Nb ₂ O ₆ : Relaxors vs normal ferroelectrics. <i>Physical Review B</i> , 2014, 90, .	1.1	34

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145	Thin-Film Piezoelectric Unimorph Actuator-Based Deformable Mirror With a Transferred Silicon Membrane. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 1214-1225.	1.7	33
146	High temperature and high energy density dielectric materials. , 2009, , .		33
147	Epitaxial Pb(Zr _x Ti _{1-x})O ₃ (0.30 ≤ x ≤ 0.63) films on (100)MgO substrates for energy harvesting applications. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	33
148	Materials and approaches for on-body energy harvesting. <i>MRS Bulletin</i> , 2018, 43, 206-213.	1.7	33
149	Dependence of dielectric and piezoelectric properties on film thickness for highly {100}-oriented lead magnesium niobate/lead titanate (70/30) thin films. <i>Journal of Materials Research</i> , 2001, 16, 268-275.	1.2	32
150	Fabrication and characterization of micromachined high-frequency tonpizl transducers derived by PZT thick films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 350-357.	1.7	32
151	Domain pinning near a single-grain boundary in tetragonal and rhombohedral lead zirconate titanate films. <i>Physical Review B</i> , 2015, 91, .	1.1	31
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