

# Susan E Trolier-Mckinstry

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5873574/publications.pdf>

Version: 2024-02-01

491  
papers

18,241  
citations

17429

63  
h-index

22808

112  
g-index

509  
all docs

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 <sub>3</sub> –0.3 BiScO <sub>3</sub> 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 <sub>3</sub> –BiScO <sub>3</sub> 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 <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –PbTiO <sub>3</sub> 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 <sub>1.5</sub> Nb <sub>1.0</sub> Nb <sub>1.5</sub> O <sub>7</sub> pyrochlore. Physical Review B, 2002, 66, .	1.1	193
18	The wafer flexure technique for the determination of the transverse piezoelectric coefficient (d <sub>31</sub> ) of PZT thin films. Sensors and Actuators A: Physical, 1998, 71, 133-138.	2.0	184

#	ARTICLE	IF	CITATIONS
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 <sub>3</sub> 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 <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> (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 <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> ) Ceramics—II Dielectric and Piezoelectric Properties. , 2003, 11, 217-226.		149
26	Fabrication and Electrical Properties of Textured Sr <sub>0.53</sub> Ba <sub>0.47</sub> Nb <sub>2</sub> O <sub>6</sub> 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 001 fiber-textured 0.675Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.325PbTiO <sub>3</sub> 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 <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> -BaTiO <sub>3</sub> ) Ceramics—I Processing. , 2003, 11, 207-215.		133
31	High Strain, 001> Textured 0.675Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.325PbTiO <sub>3</sub> 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 <sub>31</sub> piezoelectric coefficient of lead zirconate titanate thin films. Journal of Applied Physics, 1999, 85, 6711-6716.	1.1	121
35	Ferroelectricity in Ultrathin BaTiO <sub>3</sub> Films: Probing the Size Effect by Ultraviolet Raman Spectroscopy. Physical Review Letters, 2009, 103, 177601.	2.9	121
36	001 textured (K <sub>0.5</sub> Na <sub>0.5</sub> )(Nb <sub>0.975</sub> Sb <sub>0.025</sub> )O <sub>3</sub> piezoelectric ceramics with high electromechanical coupling over a broad temperature range. Applied Physics Letters, 2009, 95, .	1.5	117

#	ARTICLE	IF	CITATIONS
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 <sub>3</sub> : 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 <sub>3</sub> -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 <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> 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 <sub>33</sub> 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 <sub>3</sub> . <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 <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.35PbTiO <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , 2001, 84, 2507-2513.	1.9	91
52	Pt/Ti/SiO <sub>2</sub> /Si substrates. <i>Journal of Materials Research</i> , 1995, 10, 1508-1515.	1.2	90
53	Relaxor ferroelectricity in strained epitaxial SrTiO <sub>3</sub> thin films on DyScO <sub>3</sub> substrates. <i>Applied Physics Letters</i> , 2006, 88, 192907.	1.5	88
54	Thermal expansion of the new perovskite substrates DyScO <sub>3</sub> and GdScO <sub>3</sub> . <i>Journal of Materials Research</i> , 2005, 20, 952-958.	1.2	85



#	ARTICLE	IF	CITATIONS
73	Strongly (001) Oriented Bimorph PZT Film on Metal Foils Grown by $\text{rf}$ -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 $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{TiO}_3$ - $\text{PbTiO}_3$ 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- $\text{P}$ dielectrics with the $\text{P}$ structure. <i>Physical Review B</i> , 2010, 82, .	1.1	59
78	Epitaxial Growth of Anisotropically Shaped, Single-crystal Particles of Cubic $\text{SrTiO}_3$ . <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 $\text{AlN}$ , $\text{Al}_{1-x}\text{Sc}_x\text{N}$ , 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) $\text{BiScO}_3$ - $\text{PbTiO}_3$ epitaxial films. <i>Applied Physics Letters</i> , 2002, 81, 2065-2066.	1.5	54
89	Polarization fatigue in $\text{Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$ 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

#	ARTICLE	IF	CITATIONS
91	Effect of Grain Size on Dielectric Nonlinearity in Model BaTiO <sub>3</sub> -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 <sub>3</sub> 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 <sub>3</sub> /ZrO <sub>2</sub> /SiO <sub>2</sub> 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 <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> films. Journal of Applied Physics, 2011, 109, .	1.1	49
100	Domain Wall Motion in A and B Site Donor-Doped Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> 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 <sub>3</sub> 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 <sub>0.53</sub> Ba <sub>0.47</sub> Nb <sub>2</sub> O <sub>6</sub> 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 <sub>2</sub> O <sub>5</sub> -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



#	ARTICLE	IF	CITATIONS
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 <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> 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 <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> 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 <sub>3</sub> 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 &amp; 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 <sub>3</sub> 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 <sub>3</sub> Thick Film for High Temperature Applications. <i>ACS Applied Materials &amp; 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



#	ARTICLE	IF	CITATIONS
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 <sub>3</sub> /PbTiO <sub>3</sub> 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 $\text{SrTiO}_3$ films on $\text{DyScO}_3$ . <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 <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -0.5PbTiO <sub>3</sub> 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 <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> 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 <sub>3</sub> 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 <sub>2</sub> O <sub>6</sub> : Relaxors vs normal ferroelectrics. <i>Physical Review B</i> , 2014, 90, .	1.1	34

#	ARTICLE	IF	CITATIONS
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 $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ (0.30 $\leq x \leq$ 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
152	Spatially Resolved Spectroscopic Mapping of Polarization Reversal in Polycrystalline Ferroelectric Films: Crossing the Resolution Barrier. <i>Physical Review Letters</i> , 2009, 103, 057601.	2.9	30
153	Lateral scaling of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$ thin films for piezoelectric logic applications. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	30
154	Unleashing Strain Induced Ferroelectricity in Complex Oxide Thin Films via Precise Stoichiometry Control. <i>Advanced Functional Materials</i> , 2016, 26, 7271-7279.	7.8	30
155	Spin Spray-Deposited Nickel Manganite Thermistor Films For Microbolometer Applications. <i>Journal of the American Ceramic Society</i> , 2011, 94, 516-523.	1.9	29
156	Dynamic piezoresponse force microscopy: Spatially resolved probing of polarization dynamics in time and voltage domains. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	29
157	A flexible, high-performance magnetoelectric heterostructure of (001) oriented $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ film grown on Ni foil. <i>APL Materials</i> , 2017, 5, 096111.	2.2	29
158	Dynamical Magnetic Field Accompanying the Motion of Ferroelectric Domain Walls. <i>Physical Review Letters</i> , 2019, 123, 127601.	2.9	28
159	SMART-X: Square Meter Arcsecond Resolution x-ray Telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	27
160	Growth and characterization of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ and $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$ thin films using solid source MOCVD techniques. <i>Journal of Crystal Growth</i> , 2001, 226, 247-253.	0.7	26
161	Advances in Piezoelectrically Actuated RF MEMS Switches and Phase Shifters. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007, , .	0.0	26
162	Dependence of $\chi_{31}$ , $\chi_{33}$ on polar axis texture for tetragonal $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ thin films. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	26

#	ARTICLE	IF	CITATIONS
163	Ferroelectric/Ferroelastic domain wall motion in dense and porous tetragonal lead zirconate titanate films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 46-55.	1.7	26
164	Local measurements of Preisach density in polycrystalline ferroelectric capacitors using piezoresponse force spectroscopy. Applied Physics Letters, 2010, 96, .	1.5	25
165	Reentrant dipole glass properties in $(1-x)\text{BaTiO}_3-x\text{BiScO}_3$ , $0.1 \leq x \leq 0.4$ . Applied Physics Letters, 2012, 100, 022906.	1.5	25
166	Pathway to the Piezoelectronic Transduction Logic Device. Nano Letters, 2015, 15, 2391-2395.	4.5	25
167	The effect of imprint on remanent piezoelectric properties and ferroelectric aging of $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ thin films. Journal of the American Ceramic Society, 2019, 102, 5328-5341.	1.9	25
168	Lynx Mission concept status. , 2017, , .		25
169	Structural and electrical characterization of heteroepitaxial $\text{Pb}[\text{Yb}_{1/2}\text{Nb}_{1/2}]\text{O}_3/\text{PbTiO}_3$ thin films. Journal of Applied Physics, 2000, 87, 3958-3964.	1.1	24
170	Wet-Etch Patterning of Lead Zirconate Titanate (PZT) Thick Films for Microelectromechanical Systems (MEMS) Applications. Materials Research Society Symposia Proceedings, 2000, 657, 5391.	0.1	24
171	Structure and piezoelectric properties of sol-gel-derived $0.5 \text{Pb}[\text{Yb}_{1/2}\text{Nb}_{1/2}]\text{O}_3/0.5 \text{PbTiO}_3$ thin films. Applied Physics Letters, 2002, 80, 3370-3372.	1.5	24
172	Mapping piezoelectric nonlinearity in the Rayleigh regime using band excitation piezoresponse force microscopy. Applied Physics Letters, 2011, 98, .	1.5	24
173	Nanocrystalline Ferroelectric $\text{BiFeO}_3$ Thin Films by Low-Temperature Atomic Layer Deposition. Chemistry of Materials, 2015, 27, 6322-6328.	3.2	24
174	Declamped Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobate/Lead Titanate Thin Films. Advanced Functional Materials, 2017, 27, 1605014.	7.8	24
175	Effect of stresses on the dielectric and piezoelectric properties of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ thin films. Journal of Applied Physics, 2019, 126, .	1.1	24
176	Growth and piezoelectric properties of $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3/\text{PbTiO}_3$ epitaxial films. Journal of Applied Physics, 2002, 92, 3979-3984.	1.1	23
177	Microcontact Printed $\text{BaTiO}_3$ and $\text{LaNiO}_3$ Thin Films for Capacitors. Journal of the American Ceramic Society, 2006, 89, 060612075903001-???	1.9	23
178	Growth, crystal structure, and properties of epitaxial $\text{BiScO}_3$ thin films. Journal of Applied Physics, 2008, 104, .	1.1	23
179	Strain-modulated piezoelectric and electrostrictive nonlinearity in ferroelectric thin films without active ferroelastic domain walls. Journal of Applied Physics, 2011, 110, 124104.	1.1	23
180	Ultraviolet pulsed laser crystallization of $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$ films on $\text{LaNiO}_3$ -coated silicon substrates. Ceramics International, 2016, 42, 4039-4047.	2.3	23

#	ARTICLE	IF	CITATIONS
181	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	1.9	23
182	High-temperature crystallized thin-film PZT on thin polyimide substrates. Journal of Applied Physics, 2017, 122, .	1.1	23
183	Dielectric and electromechanical properties of barium titanate single crystals grown by templated grain growth. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 895-902.	1.7	22
184	Transverse piezoelectric properties of epitaxial $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3/\text{PbTiO}_3$ (50/50) films. Journal of Crystal Growth, 2001, 229, 445-449.	0.7	22
185	Fabrication of High Aspect Ratio Ferroelectric Microtubes by Vacuum Infiltration using Macroporous Silicon Templates. Journal of the American Ceramic Society, 2006, 89, 060526004107001-???	1.9	22
186	Effect of Oxygen Partial Pressure During Firing on the High AC Field Response of $\text{BaTiO}_3$ Dielectrics. Journal of the American Ceramic Society, 2010, 93, 1081-1088.	1.9	22
187	Low Temperature Crystallization of Metastable Nickel Manganite Spinel Thin Films. Journal of the American Ceramic Society, 2012, 95, 2562-2567.	1.9	22
188	Polarization Dynamics in Ferroelectric Capacitors: Local Perspective on Emergent Collective Behavior and Memory Effects. Advanced Functional Materials, 2013, 23, 2490-2508.	7.8	22
189	Thickness dependent response of domain wall motion in de-clamped $\{001\}$ $\text{Pb}(\text{Zr}_{0.3}\text{Ti}_{0.7})\text{O}_3$ thin films. Acta Materialia, 2018, 151, 243-252.	3.8	21
190	Size effects in ferroics. Integrated Ferroelectrics, 1998, 20, 1-13.	0.3	20
191	Densification and anisotropic grain growth in $\text{Sr}_2\text{Nb}_2\text{O}_7$ . Journal of Materials Science, 2000, 35, 5673-5680.	1.7	20
192	Structure and piezoelectric properties of sol-gel-derived (001)-oriented $\text{Pb}[\text{Yb}_{1/2}\text{Nb}_{1/2}]\text{O}_3/\text{PbTiO}_3$ thin films. Journal of Applied Physics, 2003, 94, 3397-3402.	1.1	20
193	Characterization of the Piezoelectric Properties of $\text{Pb}_{0.98}\text{Ba}_{0.02}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/\text{PbTiO}_3$ Epitaxial Thin Films. International Journal of Applied Ceramic Technology, 2005, 2, 51-58.		20
194	Quantitative and high spatial resolution $d_{33}$ measurement of piezoelectric bulk and thin films. Journal of Applied Physics, 2015, 118, .	1.1	20
195	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1606-1615.	1.7	20
196	Cold sintering of the ceramic potassium sodium niobate, $(\text{K}_{0.5}\text{Na}_{0.5})\text{NbO}_3$ , and influences on piezoelectric properties. Journal of the European Ceramic Society, 2022, 42, 105-111.	2.8	20
197	In-Plane Polarized $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/0.3\text{PbTiO}_3$ Thin Films. Journal of the American Ceramic Society, 2002, 85, 1997-2000.	1.9	19
198	Dielectric and transverse piezoelectric properties of sol-gel-derived (001) $\text{Pb}[\text{Yb}_{1/2}\text{Nb}_{1/2}]\text{O}_3/\text{PbTiO}_3$ epitaxial thin films. Applied Physics Letters, 2003, 82, 4767-4769.	1.5	19

#	ARTICLE	IF	CITATIONS
199	Fatigue induced effects on bipolar strain loops in PZN-PT piezoelectric single crystals. Journal of Electroceramics, 2008, 20, 133-138.	0.8	19
200	Polarization rotation transitions in anisotropically strained SrTiO <sub>3</sub> thin films. Applied Physics Letters, 2008, 92, 192902.	1.5	19
201	Growth and properties of chemical solution deposited BiInO <sub>3</sub> -PbTiO <sub>3</sub> films. Applied Physics Letters, 2009, 95, .	1.5	19
202	Highly textured laser annealed Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thin films. Applied Physics Letters, 2011, 99, .	1.5	19
203	Spatially resolved mapping of disorder type and distribution in random systems using artificial neural network recognition. Physical Review B, 2011, 84, .	1.1	19
204	Effect of lead content on the performance of niobium-doped {100} textured lead zirconate titanate films. Journal of the American Ceramic Society, 2017, 100, 3558-3567.	1.9	19
205	Design and fabrication of prototype piezoelectric adjustable X-ray mirrors. Optics Express, 2018, 26, 27757.	1.7	19
206	Dielectric functions of common YBCO substrate materials determined by spectroscopic ellipsometry. IEEE Transactions on Applied Superconductivity, 1997, 7, 2177-2180.	1.1	18
207	Title is missing!. Journal of Materials Science, 1997, 32, 5169-5176.	1.7	18
208	Piezoelectric films for MEMS applications. , 0, , .		18
209	27.4 Multi-Beam Shared-Inductor Reconfigurable Voltage/SECE-Mode Piezoelectric Energy Harvesting of Multi-Axial Human Motion. , 2019, , .		18
210	Wake-up in Al <sub>1-x</sub> B <sub>x</sub> N Ferroelectric Films. Advanced Electronic Materials, 2022, 8, .	2.6	18
211	Templated grain growth of textured Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> . , 0, , .		17
212	Phase development in pulsed laser deposited Pb[Yb <sub>1/2</sub> Nb <sub>1/2</sub> ]O <sub>3</sub> -PbTiO <sub>3</sub> thin films. Thin Solid Films, 2000, 370, 70-77.	0.8	17
213	Design, Fabrication, and Performance of a Piezoelectric Uniflex Microactuator. Journal of Microelectromechanical Systems, 2009, 18, 616-625.	1.7	17
214	Higher order harmonic detection for exploring nonlinear interactions with nanoscale resolution. Scientific Reports, 2013, 3, 2677.	1.6	17
215	<i>In situ</i> laser annealing during growth of Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thin films. Applied Physics Letters, 2013, 103, .	1.5	17
216	Bismuth niobate thin films for dielectric energy storage applications. Journal of the American Ceramic Society, 2018, 101, 3443-3451.	1.9	17

#	ARTICLE	IF	CITATIONS
217	Relaxor Behavior in Ordered Lead Magnesium Niobate (PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> ) Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, 1804258.	7.8	17
218	Electric field induced metallic behavior in thin crystals of ferroelectric $\text{In}_2\text{Se}_3$ . <i>Applied Physics Letters</i> , 2020, 117, .	1.5	17
219	Amorphous-nanocrystalline lead titanate thin films for dielectric energy storage. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 250-255.	0.5	16
220	MnO <sub>2</sub> Thin Film Electrodes for Enhanced Reliability of Thin Glass Capacitors. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3270-3279.	1.9	16
221	Thickness Dependence of crack initiation and propagation in stacks for piezoelectric microelectromechanical systems. <i>Acta Materialia</i> , 2020, 191, 245-252.	3.8	16
222	The influence of Mn doping on the leakage current mechanisms and resistance degradation behavior in lead zirconate titanate films. <i>Acta Materialia</i> , 2021, 208, 116680.	3.8	16
223	Crystals and composites. <i>Journal of Applied Crystallography</i> , 1990, 23, 447-457.	1.9	15
224	Dielectric and Piezoelectric Properties of PZT 52/48 Thick Films with (100) and Random Crystallographic Orientation. <i>Materials Research Society Symposia Proceedings</i> , 2000, 655, 102.	0.1	15
225	Influence of substrate microstructure on the high field dielectric properties of BaTiO <sub>3</sub> films. <i>Journal of Applied Physics</i> , 2008, 104, 104117.	1.1	15
226	Movers, shakers, and storers of charge: The legacy of ferroelectricians L. Eric Cross and Robert E. Newnham. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3346-3359.	1.9	15
227	Polarity dependent DC resistance degradation and electrical breakdown in Nb doped PZT films. <i>APL Materials</i> , 2019, 7, .	2.2	15
228	Magnetic Color Symmetry of Lattice Rotations in a Diamagnetic Material. <i>Physical Review Letters</i> , 2008, 100, 257601.	2.9	14
229	Ultrafast crystallization kinetics in (Pb,La)(Zr <sub>0.30</sub> Ti <sub>0.70</sub> )O <sub>3</sub> thin films by pulsed excimer laser annealing. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 2182-2191.	1.7	14
230	Wafer mapping of the transverse piezoelectric coefficient, $e_{31f}$ , using the wafer flexure technique with sputter deposited Pt strain gauges. <i>Sensors and Actuators A: Physical</i> , 2012, 173, 152-157.	2.0	14
231	Microstructure Evolution of <i>In Situ</i> Pulsed Laser Crystallized Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> Thin Films. <i>Journal of the American Ceramic Society</i> , 2016, 99, 43-50.	1.9	14
232	Improvement of reliability and dielectric breakdown strength of Nb-doped lead zirconate titanate films via microstructure control of seed. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1211-1217.	1.9	14
233	Flexible Thin-Film PZT Ultrasonic Transducers on Polyimide Substrates. <i>Sensors</i> , 2021, 21, 1014.	2.1	14
234	Properties of PZT thin films as a function of in-plane biaxial stress. , 1996, , .		13

#	ARTICLE	IF	CITATIONS
235	Templated Grain Growth of Textured Piezoelectric Ceramics. Key Engineering Materials, 2002, 206-213, 1293-1296.	0.4	13
236	Chemical solution deposited silver tantalate niobate, $Ag_x(Ta_{0.5}Nb_{0.5})O_3 \cdot y$ , thin films on (111)Pt/Ti/SiO <sub>2</sub> /(100)Si substrates. Journal of Sol-Gel Science and Technology, 2007, 42, 407-414.	1.1	13
237	Crystal Chemistry of Piezoelectric Materials. , 2008, , 39-56.		13
238	Development of adjustable grazing incidence optics for Generation-X. , 2008, , .		13
239	PZT piezoelectric films on glass for Gen-X imaging. Proceedings of SPIE, 2010, , .	0.8	13
240	A-site stoichiometry and piezoelectric response in thin film $PbZr_{1-x}Ti_xO_3$ . Journal of Applied Physics, 2015, 117, 204104.	1.1	13
241	Control of crystallographic texture and surface morphology of Pt/TiO <sub>2</sub> templates for enhanced PZT thin film texture. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 56-61.	1.7	13
242	Thickness-dependent domain wall reorientation in 70/30 lead magnesium niobate-lead titanate thin films. Journal of the American Ceramic Society, 2017, 100, 3961-3972.	1.9	13
243	Highly accelerated lifetime testing of potassium sodium niobate thin films. Applied Physics Letters, 2017, 111, 212903.	1.5	13
244	A wrist-worn rotational energy harvester utilizing magnetically plucked {001} oriented bimorph PZT thin-film beams. , 2017, , .		13
245	Design of piezoMEMS for high strain rate nanomechanical experiments. Extreme Mechanics Letters, 2018, 20, 14-20.	2.0	13
246	A Multi-Beam Shared-Inductor Reconfigurable Voltage/SECE Mode Piezoelectric Energy Harvesting Interface Circuit. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1277-1287.	2.7	13
247	High-resolution x-ray telescopes. , 2010, , .		12
248	The field induced $e_{31}$ , $f$ piezoelectric and Rayleigh response in barium strontium titanate thin films. Applied Physics Letters, 2014, 105, .	1.5	12
249	Model for the cold sintering of lead zirconate titanate ceramic composites. Journal of the American Ceramic Society, 2020, 103, 4894-4902.	1.9	12
250	Vibration of micromachined circular piezoelectric diaphragms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 697-706.	1.7	12
251	Fabrication of textured Bi <sub>4</sub> /Ti <sub>3</sub> /O <sub>12</sub> by templated grain growth. , 0, , .		11
252	Measurement of Effective Longitudinal Piezoelectric Coefficient of thin Films by Direct Piezoelectric Effect. Materials Research Society Symposia Proceedings, 1997, 493, 427.	0.1	11



#	ARTICLE	IF	CITATIONS
253	Vibration of micromachined circular piezoelectric diaphragms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 697-706.	1.7	11
254	Mn-doped 0.15BiInO <sub>3</sub> -0.85PbTiO <sub>3</sub> piezoelectric films deposited by pulsed laser deposition. Applied Physics Letters, 2012, 100, 212905.	1.5	11
255	Adjustable grazing incidence x-ray optics based on thin PZT films. Proceedings of SPIE, 2012, , .	0.8	11
256	Nanocomposite bismuth zinc niobate tantalate for flexible energy storage applications. Journal of Applied Physics, 2015, 118, .	1.1	11
257	The Effects of Low Oxygen Activity Conditions on the Phase Equilibria and Cation Occupancy of Strontium Barium Niobate. Journal of the American Ceramic Society, 2016, 99, 3435-3442.	1.9	11
258	Development of crystallographic texture in chemical solution deposited lead zirconate titanate seed layers. Journal of the American Ceramic Society, 2017, 100, 4476-4482.	1.9	11
259	Additive Manufacturing of Ferroelectric-Oxide Thin-Film Multilayer Devices. ACS Applied Materials & Interfaces, 2019, 11, 45155-45160.	4.0	11
260	Flexoelectric barium strontium titanate (BST) hydrophones. Journal of Applied Physics, 2021, 129, .	1.1	11
261	Graphoepitaxy of platinum on Sawtooth profile gratings. Journal of Crystal Growth, 1989, 98, 469-479.	0.7	10
262	Thickness Dependence of the Electrical Properties of Sol-Gel Derived Lead Zirconate Titanate Thin Films with (111) and (100) Texture. Materials Research Society Symposia Proceedings, 1997, 493, 409.	0.1	10
263	Launching into The Great New Millennium. Piezoelectric Films for MEMS Applications.. Journal of the Ceramic Society of Japan, 2001, 109, S76-S79.	1.3	10
264	Thin Film Piezoelectrics for MEMS. Kluwer International Series in Electronic Materials: Science and Technology, 2005, , 199-215.	0.3	10
265	(00l) epitaxial Ag(Ta <sub>0.5</sub> Nb <sub>0.5</sub> )O <sub>3</sub> thin films on (001)SrRuO <sub>3</sub> ·(001)LaAlO <sub>3</sub> substrates by chemical solution deposition. Journal of Applied Physics, 2007, 101, 014111.	1.1	10
266	Room-temperature electro-optic properties of strained SrTiO <sub>3</sub> films grown on DyScO <sub>3</sub> . Journal of Applied Physics, 2009, 105, .	1.1	10
267	Pyroelectric and dielectric properties of ferroelectric films with interposed dielectric buffer layers. Applied Physics Letters, 2014, 105, .	1.5	10
268	Effect of feature size on dielectric nonlinearity of patterned PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> films. Journal of Applied Physics, 2015, 117, 014103.	1.1	10
269	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging. , 2016, , .		10
270	High-temperature thermoelectric characterization of filled strontium barium niobates: power factors and carrier concentrations. Journal of Materials Research, 2017, 32, 1160-1167.	1.2	10

#	ARTICLE	IF	CITATIONS
271	Influence of PbO content on the dielectric failure of Nb-doped {100}-oriented lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1734-1740.	1.9	10
272	Thermally stimulated depolarization current measurements on degraded lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5270-5280.	1.9	10
273	Comparison of different sintering aids in cold sinter-assisted densification of lead zirconate titanate. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5479-5488.	1.9	10
274	Structural Control of Epitaxially Grown Sputtered Perovskite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1995, 401, 151.	0.1	9
275	Preparation of lead zirconate titanate thin films by reactive magnetron co-sputtering. <i>Materials Letters</i> , 1996, 28, 317-322.	1.3	9
276	The Impact of Domains on the Dielectric and Electromechanical Properties of Ferroelectric Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1997, 493, 59.	0.1	9
277	Basic sputtering process and ferroelectric properties of single-domain single-crystal thin films of PbTiO <sub>3</sub> . <i>Integrated Ferroelectrics</i> , 1998, 21, 451-460.	0.3	9
278	Optical fibers with patterned ZnO/electrode coatings for flexural actuators. <i>Sensors and Actuators A: Physical</i> , 1999, 73, 267-274.	2.0	9
279	Evolution of the fractal surface of amorphous lead zirconate-titanate films during crystallization. <i>Physics of the Solid State</i> , 1999, 41, 274-277.	0.2	9
280	Reliable integration of piezoelectric lead zirconate titanate with MEMS fabrication processes. , 2001, , .		9
281	Polarization relaxation anisotropy in Pb(Zn <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> single-crystal ferroelectrics as a function of fatigue history. <i>Journal of Applied Physics</i> , 2004, 95, 2631-2638.	1.1	9
282	Extensions of molecular ruler technology for nanoscale patterning. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 3200.	1.3	9
283	Technology challenges of active x-ray optics for astronomy. , 2010, , .		9
284	Structural phase transitions in AgTa <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> thin films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	9
285	Composition dependence of local piezoelectric nonlinearity in (0.3)Pb(Ni <sub>0.33</sub> Nb <sub>0.67</sub> )O <sub>3</sub> -(0.7)Pb(ZrTi <sub>1-x</sub> )O <sub>3</sub> films. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	9
286	Micromachined diaphragm transducers for miniaturised ultrasound arrays. , 2012, , .		9
287	Improving yield of PZT piezoelectric devices on glass substrates. , 2012, , .		9
288	Reducing parasitic effects of actuation and sensing schemes for piezoelectric microelectromechanical resonators. <i>Microelectronic Engineering</i> , 2013, 111, 68-76.	1.1	9

#	ARTICLE	IF	CITATIONS
289	Low-Cost, Damage-Free Patterning of Lead Zirconate Titanate Films. Journal of the American Ceramic Society, 2013, 96, 2799-2805.	1.9	9
290	Stabilisation of Fe <sub>2</sub> O <sub>3</sub> -rich Perovskite Nanophase in Epitaxial Rare-earth Doped BiFeO <sub>3</sub> Films. Scientific Reports, 2015, 5, 13066.	1.6	9
291	Management of Lead Content for Growth of {001}-Oriented Lead Magnesium Niobate-Lead Titanate Thin Films. Journal of the American Ceramic Society, 2016, 99, 1144-1146.	1.9	9
292	The effect of substrate clamping on the paraelectric to antiferroelectric phase transition in Nd-doped BiFeO <sub>3</sub> thin films. Thin Solid Films, 2016, 616, 767-772.	0.8	9
293	Toward large-area sub-arcsecond x-ray telescopes II. , 2016, , .		9
294	Enhanced dielectric and piezoelectric responses in Zn <sub>1-x</sub> Mg <sub>x</sub> O thin films near the phase separation boundary. Applied Physics Letters, 2017, 110, .	1.5	9
295	Fabrication of bimorph lead zirconate titanate thick films on metal substrates via the cold sintering-assisted process. Acta Materialia, 2020, 195, 482-490.	3.8	9
296	Progress in development of adjustable optics for x-ray astronomy. , 2018, , .		9
297	Characterization of PZT hollow-sphere transducers. , 0, , .		8
298	Phase transitions of antiferroelectric lead zirconate thin films in high electric field. Ferroelectrics, Letters Section, 1996, 20, 149-155.	0.4	8
299	Processing of PZT piezoelectric thin films for microelectromechanical systems. , 0, , .		8
300	The Effects of Film Thickness and Texture on the high and Low-Field stress Response of Lead Zirconate Titanate Thin Films. Materials Research Society Symposia Proceedings, 1997, 493, 81.	0.1	8
301	Bismuth Pyrochlore Films for Dielectric Applications. Materials Research Society Symposia Proceedings, 1999, 603, 137.	0.1	8
302	Fabrication and performance of $d_{33}$ -mode lead-zirconate-titanate (PZT) MEMS accelerometers. , 2001, , .		8
303	Fabrication of Piezoelectric Diaphragm Using Lead Zirconate Titanate (PZT) Films. Materials Research Society Symposia Proceedings, 2001, 687, 1.	0.1	8
304	Densification and phase formation in seeded, reactively sintered Sr <sub>0.53</sub> Ba <sub>0.47</sub> Nb <sub>2</sub> O <sub>6</sub> ceramics. Journal of Materials Science, 2002, 37, 5041-5049.	1.7	8
305	Adjustable grazing incidence x-ray optics: measurement of actuator influence functions and comparison with modeling. Proceedings of SPIE, 2011, , .	0.8	8
306	Metallic-like to nonmetallic transitions in a variety of heavily oxygen deficient ferroelectrics. Applied Physics Letters, 2015, 107, .	1.5	8

#	ARTICLE	IF	CITATIONS
307	Visualization of dielectric constant-electric field-temperature phase maps for imprinted relaxor ferroelectric thin films. Applied Physics Letters, 2016, 108, .	1.5	8
308	Evaluation of High Frequency Piezoelectric Micromachined Ultrasound Transducers for Photoacoustic Imaging. , 2018, 2018, .		8
309	Residual Stress and Ferroelastic Domain Reorientation in Declamped {001} Pb(Zr<sub>0.3</sub>Ti<sub>0.7</sub>)O<sub>3</sub> Films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 259-272.	1.7	8
310	Leakage current characteristics and DC resistance degradation mechanisms in Nb doped PZT films. Journal of Applied Physics, 2021, 129, .	1.1	8
311	Characterization of Optical Thin Films by Spectroscopic Ellipsometry. Journal of the American Ceramic Society, 1995, 78, 2412-2416.	1.9	7
312	Effect of Y-Doping on the Dielectric Properties of BaTiO <sub>3</sub> Films Deposited in Reducing Atmospheres Using Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1999, 596, 487.	0.1	7
313	Epitaxial Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> thin films grown by MOCVD. Integrated Ferroelectrics, 2001, 35, 151-158.	0.3	7
314	(001) epitaxial AgTaO <sub>3</sub> and AgNbO <sub>3</sub> thin films on (001)SrRuO <sub>3</sub> •(001)LaAlO <sub>3</sub> substrates by chemical solution deposition. Applied Physics Letters, 2006, 89, 252907.	1.5	7
315	Chemical solution deposition of copper thin films and integration into a multilayer capacitor structure. Journal of Electroceramics, 2010, 24, 161-169.	0.8	7
316	Processing of chemical solution-deposited BaTiO <sub>3</sub> -based thin films on Ni foils. Journal of Materials Science, 2011, 46, 136-144.	1.7	7
317	Optical and structural properties of solution deposited nickel manganite thin films. Thin Solid Films, 2011, 519, 2919-2923.	0.8	7
318	The square meter arcsecond resolution x-ray telescope: SMART-X. Proceedings of SPIE, 2012, , .	0.8	7
319	High Curie temperature BiInO <sub>3</sub> -PbTiO <sub>3</sub> films. Journal of Applied Physics, 2014, 115, 224105.	1.1	7
320	Technology requirements for a square meter, arcsecond resolution telescope for x-rays: the SMART-X mission. Proceedings of SPIE, 2014, , .	0.8	7
321	Fabrication of adjustable cylindrical mirror segments for the SMART-X telescope. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1386-1392.	1.7	7
322	Development status of adjustable grazing incidence optics for 0.5 arcsecond x-ray imaging. Proceedings of SPIE, 2014, , .	0.8	7
323	Effect of Mechanical Constraint on Domain Reorientation in Predominantly {111}•textured Lead Zirconate Titanate Films. Journal of the American Ceramic Society, 2016, 99, 1802-1807.	1.9	7
324	Physically based DC lifetime model for lead zirconate titanate films. Applied Physics Letters, 2017, 111, .	1.5	7

#	ARTICLE	IF	CITATIONS
325	Electrochemically driven degradation of chemical solution deposited ferroelectric thin-films in humid ambient. Journal of Applied Physics, 2020, 127, 244101.	1.1	7
326	Preparation of chemically etched piezoelectric resonators for density meters and viscometers. Materials Research Bulletin, 1987, 22, 1267-1274.	2.7	6
327	The Effects of Biaxial Stress on the Ferroelectric Characteristics of PZT Thin Films. Materials Research Society Symposia Proceedings, 1996, 459, 47.	0.1	6
328	Real-time spectroscopic ellipsometry as a characterization tool for oxide molecular beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 584-590.	0.9	6
329	Generation-X mirror technology development plan and the development of adjustable x-ray optics. , 2009, , .		6
330	Ferroelectric and ferroelastic domain wall motion in unconstrained Pb(Zr,Ti)O <sub>3</sub> microtubes and thin films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 792-800.	1.7	6
331	Octahedral tilt transitions in relaxed epitaxial Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> films. Journal of Applied Physics, 2011, 109, 094104.	1.1	6
332	Technology development of adjustable grazing incidence x-ray optics for sub-arc second imaging. Proceedings of SPIE, 2012, , .	0.8	6
333	Morphology evolution in spinel manganite films deposited from an aqueous solution. Thin Solid Films, 2012, 522, 129-135.	0.8	6
334	Development status of adjustable grazing incidence optics for 0.5 arc second x-ray imaging. , 2013, , .		6
335	Excimer laser assisted re-oxidation of BaTiO <sub>3</sub> thin films on Ni metal foils. Journal of Applied Physics, 2016, 119, .	1.1	6
336	In situ X-ray diffraction of lead zirconate titanate piezoMEMS cantilever during actuation. Materials and Design, 2016, 111, 429-434.	3.3	6
337	Filled oxygen-deficient strontium barium niobates. Journal of the American Ceramic Society, 2017, 100, 774-782.	1.9	6
338	Theory-Guided Synthesis of a Metastable Lead-Free Piezoelectric Polymorph. Advanced Materials, 2018, 30, 1800559.	11.1	6
339	Extrinsic contributions to the dielectric and pyroelectric properties of Pb <sub>0.99</sub> [(Zr <sub>0.52</sub> Ti <sub>0.48</sub> ) <sub>0.98</sub> Nb <sub>0.02</sub> ]O <sub>3</sub> thin films on Si and Ni substrates. Journal of Applied Physics, 2020, 128, .	1.1	6
340	10 MHz Thin-Film PZT-Based Flexible PMUT Array: Finite Element Design and Characterization. Sensors, 2020, 20, 4335.	2.1	6
341	Comparison of K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> and PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> compliant-mechanism-design energy harvesters. Journal of Applied Physics, 2021, 129, .	1.1	6
342	Residual stress analysis of aluminum nitride piezoelectric micromachined ultrasonic transducers using Raman spectroscopy. Journal of Applied Physics, 2021, 130, .	1.1	6

#	ARTICLE	IF	CITATIONS
343	Spectroscopic Ellipsometry Investigation of Amorphous Silicon Nitride Thin Films. Journal of the Electrochemical Society, 1994, 141, 2483-2486.	1.3	5
344	The sensitivity limits of spectroscopic ellipsometry to oxygen content in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> thin films. Thin Solid Films, 1999, 352, 205-212.	0.8	5
345	A voltage-controlled tunable thin-film distributed RC notch filter. IEEE Transactions on Components and Packaging Technologies, 2001, 24, 33-37.	1.4	5
346	Phase Development and Electrical Properties of Pb(Yb <sup>1/2</sup> Nb <sup>1/2</sup> )O <sub>3</sub> -PbTiO <sub>3</sub> Epitaxial Films. Integrated Ferroelectrics, 2002, 50, 33-42.	0.3	5
347	RF MEMS piezoelectric switch. , 0, , .		5
348	Concept, modeling, and fabrication techniques for large-stroke piezoelectric unimorph deformable mirrors. , 2003, 4983, 271.		5
349	Synthesis, characterization, and dielectric properties of $\lambda^2$ -Gd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> thin films prepared by chemical solution deposition. Journal of Sol-Gel Science and Technology, 2010, 54, 269-275.	1.1	5
350	Toward active x-ray telescopes. Proceedings of SPIE, 2011, , .	0.8	5
351	Phase transitions in compressively strained AgTa <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> ferroelectric bilayers. Physical Review B, 2015, 91, .	1.1	5
352	Medical Applications of Piezoelectric Microelectromechanical Systems. Integrated Ferroelectrics, 2013, 141, 169-186.	0.3	5
353	Coherently strained epitaxial Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> thin films. Journal of Applied Physics, 2013, 114, 164104.	1.1	5
354	Piezoelectric and dielectric properties of Pb <sub>0.5</sub> Mo <sub>0.5</sub> O <sub>3</sub> ferroelectric bilayers. Physical Review B, 2015, 91, .	1.1	5
355	Phase transitions and octahedral rotations in epitaxial Ag(TaxNb <sub>1-x</sub> )O <sub>3</sub> thin films under tensile strain. Journal of Applied Physics, 2015, 117, .	1.1	5
356	Cobalt doping to influence the electrical conductivity of (Bi <sub>0.91</sub> Dy <sub>0.09</sub> )FeO <sub>3</sub> ceramics. Materials Letters, 2018, 225, 126-129.	1.3	5
357	Optimizing the energy balance to achieve autonomous self-powering for vigilant health and IoT applications. Journal of Physics: Conference Series, 2019, 1407, 012001.	0.3	5
358	Influence of graded doping on the long-term reliability of Nb-doped lead zirconate titanate films. Acta Materialia, 2021, 219, 117251.	3.8	5
359	Local measurements of domain wall-induced self-heating in released PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> films. Journal of Applied Physics, 2020, 128, .	1.1	5
360	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. Applied Physics Letters, 2022, 120, .	1.5	5

#	ARTICLE	IF	CITATIONS
361	In Situ Investigation of Crystallization Kinetics in Pzt Films by Light Scattering. Materials Research Society Symposia Proceedings, 1996, 433, 351.	0.1	4
362	Composition profiling of graded dielectric function materials by spectroscopic ellipsometry. Thin Solid Films, 1998, 313-314, 389-393.	0.8	4
363	Interfacial structure and ferroelectric properties of PZT/SrRuO <sub>3</sub> heterostructures on miscut (001)SrTiO <sub>3</sub> . Integrated Ferroelectrics, 1999, 26, 39-46.	0.3	4
364	(001)-Oriented LaNiO <sub>3</sub> Bottom Electrodes and (001)-Textured Ferroelectric Thin Films on LaNiO <sub>3</sub> . Materials Research Society Symposia Proceedings, 1999, 596, 73.	0.1	4
365	Modeling Optical Changes in Perovskite Capacitor Materials Due to dc Electric Field Degradation. Journal of the American Ceramic Society, 2005, 88, 71-78.	1.9	4
366	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit. , 2009, , .		4
367	(111) <sub>p</sub> microtwinning in SrRuO <sub>3</sub> thin films on (001) <sub>p</sub> LaAlO <sub>3</sub> . Acta Crystallographica Section B: Structural Science, 2009, 65, 694-698.	1.8	4
368	Toward active x-ray telescopes II. , 2012, , .		4
369	ZnO thin film transistors and electronic connections for adjustable x-ray mirrors: SMART-X telescope. Proceedings of SPIE, 2014, , .	0.8	4
370	Influence of Li doping on domain wall motion in Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> films. Journal of Materials Science, 2014, 49, 7883-7889.	1.7	4
371	Integrated electronics for control of large-area piezoelectric arrays for adjustable optics. Sensors and Actuators A: Physical, 2018, 276, 304-311.	2.0	4
372	Sputtered Lead Zirconate Titanate Thin Films Deposited on Silicon-on-Sapphire Substrates. , 2018, , .		4
373	Piezoelectric nanoelectromechanical systems integrating microcontact printed lead zirconate titanate films. Journal of Micromechanics and Microengineering, 2020, 30, 035004.	1.5	4
374	Comparative Solution Synthesis of Mn Doped (Na,K)NbO <sub>3</sub> Thin Films. Chemistry - A European Journal, 2020, 26, 9356-9364.	1.7	4
375	Cold Sintering of PZT 2-2 Composites for High Frequency Ultrasound Transducer Arrays. Actuators, 2021, 10, 235.	1.2	4
376	Optimized Design, Fabrication and Characterization of PZT Unimorph Microactuators for Deformable Mirrors. , 2004, , .		4
377	Deterministic figure correction of piezoelectrically adjustable slumped glass optics. , 2017, , .		4
378	Spectroscopic ellipsometry studies of ferroelectric thin films. Ferroelectrics, 1994, 152, 169-174.	0.3	3



#	ARTICLE	IF	CITATIONS
379	Deposition and Electrical Characterization of Epitaxial $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ (70/30) Thin Films. Materials Research Society Symposia Proceedings, 1997, 493, 421.	0.1	3
380	Step-flow growth of perovskite $\text{PbTiO}_3$ thin films epitaxially grown on a miscut $\text{SrTiO}_3$ substrate. , 1998, 3481, 182.		3
381	Single domain/single crystal ferroelectric $\text{PbTiO}_3$ /substrate thin films. , 0, , .		3
382	Fabrication of MEMS Tonpiz Transducers. Materials Research Society Symposia Proceedings, 2001, 687, 1.	0.1	3
383	Processing and properties of high aspect ratio ferroelectric structures. , 0, , .		3
384	MEMS flextensional actuator using lead zirconate titanate thin film. , 0, , .		3
385	3G-2 A Novel Ultrasonic Imaging System with Integrated Electronics and High Frequency PZT Transducers. , 2006, , .		3
386	Nonlinear dielectric response in $(1-x)\text{Pb}(\text{Zn}_{1-3x}\text{Nb}_2\text{O}_3)_x\text{PbTiO}_3$ ( $x=0.045$ and $0.08$ ) single crystals. Journal of Applied Physics, 2007, 101, 104102.	1.1	3
387	Growth and structural properties of $\text{Bi}(\text{Fe}_x\text{Sc}_{1-x})\text{O}_3$ thin films. Philosophical Magazine Letters, 2007, 87, 241-247.	0.5	3
388	Comparable measurements and modeling of piezoelectric thin films for MEMS application. , 2013, , .		3
389	Piezoelectrics: Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics (Adv.) Tj ETQq1 1 0.784314 rgBj /Overlock 7.8		3
390	Improved control and characterization of adjustable x-ray optics. , 2015, , .		3
391	Annealing behavior and electrical properties of atomic layer deposited $\text{PbTiO}_3$ and PZT films. Journal of Crystal Growth, 2018, 493, 45-50.	0.7	3
392	Ultraviolet-assisted cold poling of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ films. Journal of Materials Science, 2018, 53, 7180-7186.	1.7	3
393	Pulsed-Laser Deposited $35 \text{Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-}65 \text{PbTiO}_3$ Thin Films—Part I: Influence of Processing on Composition, Microstructure, and Ferroelectric Hysteresis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1525-1533.	1.7	3
394	Modelling of the vertical deflection of ferroelectric bending tongues loaded at their free end. AIP Advances, 2019, 9, 025017.	0.6	3
395	Multi-Channel Signal-Generator ASIC for Acoustic Holograms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 49-56.	1.7	3
396	Non-linearity in engineered lead magnesium niobate ( $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ ) thin films. Journal of Applied Physics, 2020, 128, 194102.	1.1	3

#	ARTICLE	IF	CITATIONS
397	Mechanical failure dependence on the electrical history of lead zirconate titanate thin films. Journal of the European Ceramic Society, 2021, 41, 2465-2471.	2.8	3
398	Design and fabrication of adjustable x-ray optics using piezoelectric thin films. , 2017, , .		3
399	Thermal stress accommodation in dip cast lead zirconate titanate ferroelectric films on flexible substrates. Journal of the American Ceramic Society, 2022, 105, 4058-4070.	1.9	3
400	Oxide Superconductor Interfaces Studied by Spectroscopic Ellipsometry. Materials Research Society Symposia Proceedings, 1995, 401, 333.	0.1	2
401	Composition Profiling of Graded Dielectric Function Materials by Spectroscopic Ellipsometry. Materials Research Society Symposia Proceedings, 1995, 411, 185.	0.1	2
402	In-situ X-ray studies of phase transformations in lead zirconate titanate thin films during annealing. Thin Solid Films, 1995, 268, 102-107.	0.8	2
403	Electrical properties and phase transformations in antiferroelectric lead zirconate thin films. , 0, , .		2
404	Size effects in barium titanate thin film heterostructures with conductive oxide electrodes. , 0, , .		2
405	A Technique for the Measurement of $d_{31}$ Coefficient of Piezoelectric Thin Films. Materials Research Society Symposia Proceedings, 1996, 459, 225.	0.1	2
406	Properties of sol-gel-derived lead zirconate titanate (PZT) thin films on platinum-coated silicon substrates. , 0, , .		2
407	Sol-gel derived SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films and electrical properties. Ferroelectrics, Letters Section, 1996, 22, 41-45.	0.4	2
408	The Influence of Film Thickness on the Magnitude and Aging Behavior of the Transverse Piezoelectric Coefficient ( $d_{31}$ ) of PZT Thin Films. Materials Research Society Symposia Proceedings, 1997, 493, 415.	0.1	2
409	Fabrication of Micromachined Piezoelectric Diaphragm Pumps Actuated by Interdigitated Transducer Electrodes. Materials Research Society Symposia Proceedings, 2002, 741, 571.	0.1	2
410	Piezoelectric Characterization. , 2005, , 39-52.		2
411	Dielectrophoretic assembly of lead zirconate titanate microtubes. Solid State Communications, 2011, 151, 1990-1993.	0.9	2
412	Toward large-area sub-arcsecond x-ray telescopes. , 2014, , .		2
413	Coherent Growth of $\text{Fe}_{2-x}\text{O}_3$ in Ti and Nd Co-doped BiFeO <sub>3</sub> Thin Films. Materials Research Letters, 2016, 4, 168-173.	4.1	2
414	Flexible Thin-Film PZT Ultrasonic Transducers. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
415	Experiments on a wireless power transfer system for wearable device with sol-gel thin-film PZT. Journal of Physics: Conference Series, 2019, 1407, 012063.	0.3	2
416	Oxygen octahedral tilt ordering in (Na <sub>1/2</sub> Bi <sub>1/2</sub> )TiO <sub>3</sub> ferroelectric thin films. Applied Physics Letters, 2020, 116, .	1.5	2
417	Process development for adjustable x-ray mirrors. , 2021, , .		2
418	Characterization of Ferroelectric Films by Spectroscopic Ellipsometry. Physics of Thin Films, 1994, , 249-278.	1.1	2
419	Efficient and Sensitive Energy Harvesting Using Piezoelectric MEMS Compliant Mechanisms. , 2015, , .		2
420	Laboratory demonstration of the piezoelectric figure correction of a cylindrical slumped glass optic. , 2016, , .		2
421	Challenges in double-beam laser interferometry measurements of fully released piezoelectric films. Journal of Applied Physics, 2022, 131, .	1.1	2
422	Spectroscopic ellipsometry studies on ferroelectric surfaces. , 0, , .		1
423	Growth of Epitaxial a-Axis and c-Axis Oriented Sr <sub>2</sub> RuO <sub>4</sub> Films. Materials Research Society Symposia Proceedings, 1995, 401, 435.	0.1	1
424	Microstructure development in lead zirconate titanate ferroelectric thin films during annealing. , 0, , .		1
425	Characterization of Pzt Films by Scanning Force Microscopy (SFM). Materials Research Society Symposia Proceedings, 1996, 433, 437.	0.1	1
426	Structure-Property Relationships in SrRuO <sub>3</sub> Epitaxial Thin Films. Materials Research Society Symposia Proceedings, 1997, 474, 217.	0.1	1
427	Preparation and characterization of dielectric (Y-doped BaTiO <sub>3</sub> ) and resistive (TaN) films for distributed rc network. Integrated Ferroelectrics, 2001, 37, 83-93.	0.3	1
428	Highly accelerated lifetime testing (HALT) of lead zirconate titanate (PZT) thin films. , 0, , .		1
429	Textured sodium bismuth titanate (Na <sub>1/2</sub> /Bi <sub>1/2</sub> ) <sub>0.945</sub> /Ba <sub>0.055</sub> /TiO <sub>3</sub> ceramics by templated grain growth. , 0, , .		1
430	Dielectric properties of capacitor materials in the optical frequency range. , 0, , .		1
431	Mist Deposition of Micron-Thick Lead Zirconate Titanate Films. Materials Research Society Symposia Proceedings, 2003, 784, 11281.	0.1	1
432	Low Temperature Crystallization of Bismuth Zinc Niobate Thin Films by Pulsed Laser Annealing. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
433	Local polarization dynamics in chemical solution deposited PZT capacitors by switching spectroscopy PFM. , 2008, , .		1
434	On-orbit adjustment concepts for the Generation-X Observatory. , 2010, , .		1
435	Piezoelectric thin films for a high frequency ultrasound transducer with integrated electronics. , 2010, , .		1
436	Mist Deposited Lead Zirconate Titanate Films. Ferroelectrics, 2011, 421, 23-29.	0.3	1
437	Piezoelectronics: a novel, high-performance, low-power computer switching technology. , 2012, , .		1
438	PZT-based high coupling with low permittivity thin films. , 2013, , .		1
439	Measuring the performance of adjustable x-ray optics with wavefront sensing. Proceedings of SPIE, 2014, , .	0.8	1
440	Piezoelectric compliant mechanism energy harvesters under large base excitations. Smart Materials and Structures, 2016, 25, 095023.	1.8	1
441	Charting the future direction of the Society. MRS Bulletin, 2017, 42, 5-6.	1.7	1
442	Fabrication and characterization of mechanical resonators integrating microcontact printed PZT films. , 2017, , .		1
443	Piezoelectric thin films on polyimide substrates for flexible piezoelectric devices. , 2017, , .		1
444	Piezoelectric MEMS Energy Harvesters for Powering Sensor Systems. Proceedings (mdpi), 2018, 2, 1103.	0.2	1
445	Piezoelectric Properties of Ferroelectric Epitaxial Films with High Curie Temperature. IEEJ Transactions on Sensors and Micromachines, 2004, 124, 117-123.	0.0	1
446	Lead zirconate titanate films prepared by liquid source misted chemical deposition. Metallic Materials, 2010, 48, 361-365.	0.2	1
447	Thinned ferroelectric crystals and ceramics. , 0, , .		0
448	Composition Control of Lead or Bismuth Based Ferroelectric Thin Films Prepared by Sputtering Method. Materials Research Society Symposia Proceedings, 1995, 403, 591.	0.1	0
449	The Formation of a Zirconate Phase within the Emission Mix for Low-Pressure Hg-Ar Discharge Lamps. Leukos, 1995, 24, 100-105.	0.3	0
450	Hard and Soft Composition Lead Zirconate Titanate Thin Films Deposited by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1996, 459, 207.	0.1	0

#	ARTICLE	IF	CITATIONS
451	Hard and soft lead zirconate titanate thin films deposited on flat and curved surfaces by pulsed laser deposition. , 0, , .		0
452	Structural and Dielectric Properties of Pulsed Laser Deposited Pb[Yb <sub>1/2</sub> Nb <sub>1/2</sub> ]O <sub>3</sub> -PbTiO <sub>3</sub> Thin Films. Materials Research Society Symposia Proceedings, 1999, 603, 143.	0.1	0
453	Dielectric and Transverse Piezoelectric Characterization of Sol-Gel Derived Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> (70/30) FILMS WITH {100} and {111} Textures. Materials Research Society Symposia Proceedings, 1999, 596, 511.	0.1	0
454	Ferroelectric and Piezoelectric Properties of Epitaxial Pb(Yb <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Films. Materials Research Society Symposia Proceedings, 2000, 655, 90.	0.1	0
455	Dielectric and electromechanical properties of <math>\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3</math> textured (0.68)Pb(Mg/sub 1/3/Nb/sub 2/3) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overload		0
456	Processing and electrical properties of Pb(Yb/sub 1/2/Nb/sub 1/2)-PbTiO/sub 3/ ceramics at the morphotropic phase boundary. , 0, , .		0
457	Preview: 2003 MRS Fall Meeting. MRS Bulletin, 2003, 28, 752-753.	1.7	0
458	Dielectric nonlinearity of [100] oriented PYbN-PT thin films. , 0, , .		0
459	Molding of high aspect ratio ferroelectric microstructures. , 0, , .		0
460	Introduction to the Special Fiftieth Anniversary Issue. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 692-693.	1.7	0
461	Ferroelectric PTCR Films for Photonic Crystal Gas Sensor. Materials Research Society Symposia Proceedings, 2006, 952, 8.	0.1	0
462	High Frequency Piezoelectric MEMS Devices. Applications of Ferroelectrics, IEEE International Symposium on, 2007, , .	0.0	0
463	Introduction to the special issue on the applications of ferroelectrics - part I. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2418-2421.	1.7	0
464	High voltage dielectric properties of spin coated BaTiO <sub>3</sub> on Ni foils. , 2008, , .		0
465	Thin film capacitors fabricated by chemical solution deposition. , 2008, , .		0
466	Introduction to the special issue on the applications of ferroelectrics: Part II. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 938-941.	1.7	0
467	Piezoelectric RF MEMS switches and phase shifters. , 2008, , .		0
468	Structural and dielectric properties of BaTiO <sub>3</sub> - BiScO <sub>3</sub> ceramics. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
469	Microstructure and Interfaces of Thin Film Capacitors on Base Metal Foils. Advanced Materials Research, 2008, 55-57, 917-920.	0.3	0
470	TEM Characterization of Nanometer-Scale Spinel /Rocksalt Phase Decomposition in Nickel Magnanite Thin Film. Microscopy and Microanalysis, 2008, 14, 228-229.	0.2	0
471	CH027. , 2008, , .		0
472	Displacement and Blocking Force Modeling for Piezoelectric Uniflex Microactuators. , 2008, , .		0
473	News of MRS Members/Materials Researchers. MRS Bulletin, 2009, 34, 558-558.	1.7	0
474	Introduction to the Special Issue on the Joint Meeting of 12th International Meeting on Ferroelectricity and 18th IEEE International Symposium on Applications of Ferroelectrics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 2116-7.	1.7	0
475	New materials for uncooled IR imaging: nickel manganite thin films grown by spin spray. Proceedings of SPIE, 2011, , .	0.8	0
476	Piezoelectric parametric amplifiers with integrated actuation and sensing capabilities. , 2013, , .		0
477	The PiezoElectronic Switch: A Path to High Speed, Low Energy Electronics. Advances in Science and Technology, 0, , .	0.2	0
478	Piezoelectric MEMS Energy Harvesters. , 2014, , .		0
479	Investigation of Local A-site Chemistry in Barium Strontium Titanate Using Aberration Corrected STEM, EELS and EDS. Microscopy and Microanalysis, 2014, 20, 1992-1993.	0.2	0
480	The piezoelectronic transistor. , 0, , 236-262.		0
481	Piezoelectric Compliant Mechanism Energy Harvesters Excited Under Large Base Accelerations. , 2016, , .		0
482	L. Eric Cross of Pennsylvania StateUniversity remembered. MRS Bulletin, 2017, 42, 241-242.	1.7	0
483	The impacts of publication. MRS Bulletin, 2017, 42, 477.	1.7	0
484	Additively patterned ferroelectric thin films with vertical sidewalls. Journal of the American Ceramic Society, 2017, 100, 848-858.	1.9	0
485	Notice of Removal: Thin film PZT-based PMUT arrays for microultrasound capsule endoscopy. , 2017, , .		0
486	Pulsed-Laser Deposited 35 Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> -65 PbTiO <sub>3</sub> Thin Filmsâ€™Part II: Influence of A-Site Deficiency and Thickness Scaling on Electric Properties. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1534-1541.	1.7	0

#	ARTICLE	IF	CITATIONS
487	Activation energies for crystallization of manganese-doped (K,Na)NbO <sub>3</sub> thin films deposited from a chemical solution. Journal of the American Ceramic Society, 2021, 104, 4968-4976.	1.9	0
488	Spectroscopic ellipsometry studies of ferroelectric surfaces and thin films. Proceedings Annual Meeting Electron Microscopy Society of America, 1994, 52, 570-571.	0.0	0
489	Portable High-Frequency Ultrasound Imaging System Design and Hardware Considerations. , 2017, , 217-252.		0
490	Portable High-Frequency Ultrasound Imaging System Design and Hardware Considerations. , 2017, , 337-364.		0
491	Development of Polymer-Ceramic-Metal Graded Acoustic Matching Layers via Cold Sintering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1413-1427.	1.7	0