Susan E Trolier-Mckinstry

List of Publications by Citations

454 papers	14,848 citations	60 h-index	106 g-index
509 ext. papers	16,510 ext. citations	3.8 avg, IF	6.63 L-index

#	Paper	IF	Citations
454	Thin Film Piezoelectrics for MEMS **2004**, 12, 7-17		727
453	The Properties of Ferroelectric Films at Small Dimensions. *Annual Review of Materials Research*, **2000**, 30, 263-298		417
452	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	2.5	412
451	Templated Grain Growth of Textured Piezoelectric Ceramics. *Critical Reviews in Solid State and Materials Sciences*, **2004**, 29, 45-96	10.1	407
450	High-Energy Density Capacitors Utilizing 0.7 BaTiO3□0.3 BiScO3 Ceramics. *Journal of the American Ceramic Society*, **2009**, 92, 1719-1724	3.8	380
449	Giant piezoelectricity on Si for hyperactive MEMS. *Science*, **2011**, 334, 958-61	33.3	319
448	Weakly Coupled Relaxor Behavior of BaTiO3□BiScO3 Ceramics. *Journal of the American Ceramic Society*, **2009**, 92, 110-118	3.8	263
447	Templated Grain Growth of Textured Bismuth Titanate. *Journal of the American Ceramic Society*, **1999**, 82, 921-926	3.8	258
446	Piezoelectric Thin Films for Sensors, Actuators, and Energy Harvesting. *MRS Bulletin*, **2009**, 34, 658-664	3.2	239
445	Bismuth zinc niobate pyrochlore dielectric thin films for capacitive applications. *Journal of Applied Physics*, **2001**, 89, 767-774	2.5	219
444	Domain wall contributions to the properties of piezoelectric thin films. *Journal of Electroceramics*, **2007**, 19, 49-67	1.5	218
443	Thin-film piezoelectric MEMS. *MRS Bulletin*, **2012**, 37, 1007-1017	3.2	202
442	Characterization of ferroelectric lead zirconate titanate films by scanning force microscopy. *Journal of Applied Physics*, **1997**, 81, 7480-7491	2.5	202
441	Piezoelectric properties of <001> textured Pb(Mg1/3Nb2/3)O3□PbTiO3 ceramics. *Applied Physics Letters*, **2001**, 78, 2551-2553	3.4	186
440	Piezoelectric properties of zirconium-doped barium titanate single crystals grown by templated grain growth. *Journal of Applied Physics*, **1999**, 86, 1657-1661	2.5	179
439	Anomalous broad dielectric relaxation in Bi1.5Zn1.0Nb1.5O7 pyrochlore. *Physical Review B*, **2002**, 66,	3.3	174
438	The wafer flexure technique for the determination of the transverse piezoelectric coefficient (d31) of PZT thin films. *Sensors and Actuators A: Physical*, **1998**, 71, 133-138	3.9	166

437	Piezoelectric micromachined ultrasound transducer (PMUT) arrays for integrated sensing, actuation and imaging. *Sensors*, **2015**, 15, 8020-41	3.8	163
436	Dielectric and Electromechanical Properties of Textured Niobium-Doped Bismuth Titanate Ceramics. *Journal of the American Ceramic Society*, **2000**, 83, 113-118	3.8	148
435	Temperature dependence of the piezoelectric response in lead zirconate titanate films. *Journal of Applied Physics*, **2004**, 95, 1397-1406	2.5	141
434	Phase development and electrical property analysis of pulsed laser deposited Pb(Mg1/3Nb2/3)O3PbTiO3 (70/30) epitaxial thin films. *Journal of Applied Physics*, **1998**, 84, 5147-5154	2.5	140
433	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. *MRS Bulletin*, **2014**, 39, 1099-1111	3.2	135
432	Phase transitions and domain structures in strained pseudocubic (100) SrTiO3 thin films. *Physical Review B*, **2006**, 73,	3.3	133
431	Fabrication and Electrical Properties of Textured Sr0.53Ba0.47Nb2O6 Ceramics by Templated Grain Growth. *Journal of the American Ceramic Society*, **2004**, 83, 2203-2213	3.8	130
430	(Reactive) Templated Grain Growth of Textured Sodium Bismuth Titanate (Na1/2Bi1/2TiO3-BaTiO3) Ceramics Dielectric and Piezoelectric Properties **2003**, 11, 217-226		125
429	Flexible Technologies for Self-Powered Wearable Health and Environmental Sensing. *Proceedings of the IEEE*, **2015**, 103, 665-681	14.3	124
428	Dielectric and piezoelectric properties of <001> fiber-textured 0.675Pb(Mg1/3Nb2/3)O30.325PbTiO3 ceramics. *Journal of Applied Physics*, **2003**, 93, 4072-4080	2.5	120
427	High Strain, <001> Textured 0.675Pb(Mg1/3Nb2/3)O30.325PbTiO3 Ceramics: Templated Grain Growth and Piezoelectric Properties. *Journal of the American Ceramic Society*, **2005**, 88, 312-317	3.8	120
426	(Reactive) Templated Grain Growth of Textured Sodium Bismuth Titanate (Na1/2Bi1/2TiO3-BaTiO3) CeramicsProcessing **2003**, 11, 207-215		115
425	Medium permittivity bismuth zinc niobate thin film capacitors. *Journal of Applied Physics*, **2003**, 94, 1941-1947	2.5	114
424	Characterization and aging response of the d31 piezoelectric coefficient of lead zirconate titanate thin films. *Journal of Applied Physics*, **1999**, 85, 6711-6716	2.5	111
423	Ferroelectricity in ultrathin BaTiO3 films: probing the size effect by ultraviolet Raman spectroscopy. *Physical Review Letters*, **2009**, 103, 177601	7.4	110
422	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. *Journal of the American Ceramic Society*, **2016**, 99, 2537-2557	3.8	108
421	<001> textured (K0.5Na0.5)(Nb0.97Sb0.03)O3 piezoelectric ceramics with high electromechanical coupling over a broad temperature range. *Applied Physics Letters*, **2009**, 95, 232905	3.4	106
420	Collective dynamics underpins Rayleigh behavior in disordered polycrystalline ferroelectrics. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 7219-24	11.5	102

419	Dielectric and piezoelectric properties of lead-free (Bi,Na)TiO3-based thin films. *Applied Physics Letters*, **2010**, 96, 082903	3.4	96
418	Piezoelectric nonlinearity due to motion of 180° domain walls in ferroelectric materials at subcoercive fields: A dynamic poling model. *Applied Physics Letters*, **2006**, 88, 202901	3.4	96
417	. *Journal of Microelectromechanical Systems*, **2003**, 12, 433-439	2.5	93
416	Longitudinal piezoelectric coefficient measurement for bulk ceramics and thin films using pneumatic pressure rig. *Journal of Applied Physics*, **1999**, 86, 588-594	2.5	93
415	Substrate clamping effects on irreversible domain wall dynamics in lead zirconate titanate thin films. *Physical Review Letters*, **2012**, 108, 157604	7.4	92
414	Efficient Piezoelectric Energy Harvesters Utilizing (001) Textured Bimorph PZT Films on Flexible Metal Foils. *Advanced Functional Materials*, **2016**, 26, 5940-5946	15.6	90
413	Reactive magnetron co-sputtered antiferroelectric lead zirconate thin films. *Applied Physics Letters*, **1995**, 67, 2014-2016	3.4	87
412	Band gap and structure of single crystal BiI3: Resolving discrepancies in literature. *Journal of Applied Physics*, **2013**, 114, 033110	2.5	86
411	Pt/Ti/SiO2/Si substrates. *Journal of Materials Research*, **1995**, 10, 1508-1515	2.5	84
410	Kinetics of Templated Grain Growth of 0.65Pb(Mg1/3Nb2/3)O3–0.35PbTiO3. *Journal of the American Ceramic Society*, **2001**, 84, 2507-2513	3.8	81
409	Ferroelectric-thermoelectricity and Mott transition of ferroelectric oxides with high electronic conductivity. *Journal of the European Ceramic Society*, **2012**, 32, 3971-3988	6	80
408	Relaxor ferroelectricity in strained epitaxial SrTiO3 thin films on DyScO3 substrates. *Applied Physics Letters*, **2006**, 88, 192907	3.4	79
407	Lead-zirconate-titanate-based piezoelectric micromachined switch. *Applied Physics Letters*, **2003**, 83, 174-176	3.4	79
406	Room-temperature voltage tunable phonon thermal conductivity via reconfigurable interfaces in ferroelectric thin films. *Nano Letters*, **2015**, 15, 1791-5	11.5	78
405	Sub-kT/q Switching in Strong Inversion in PbZr0.52Ti0.48O3 Gated Negative Capacitance FETs. *IEEE Journal on Exploratory Solid-State Computational Devices and Circuits*, **2015**, 1, 43-48	2.4	77
404	High-Performance Piezoelectric Crystals, Ceramics, and Films. *Annual Review of Materials Research*, **2018**, 48, 191-217	12.8	76
403	High-Energy Density Dielectrics and Capacitors for Elevated Temperatures: Ca(Zr,Ti)O3. *Journal of the American Ceramic Society*, **2013**, 96, 1209-1213	3.8	76
402	Lead zirconate titanate films for d33 mode cantilever actuators. *Sensors and Actuators A: Physical*, **2003**, 105, 91-97	3.9	75

401	Structural and Dielectric Properties in (1−x)BaTiO3−xBi(Mg1/2Ti1/2)O3 Ceramics (0.1≤x≤0.5) and Potential for High-Voltage Multilayer Capacitors. *Journal of the American Ceramic Society*, **2013**, 96, 2197-2202	2.8	70
400	Dielectric nonlinearity of Pb(Yb1/2Nb1/2)O3–PbTiO3 thin films with {100} and {111} crystallographic orientation. *Journal of Applied Physics*, **2005**, 97, 064106	2.5	70
399	Thermal expansion of the new perovskite substrates DyScO3 and GdScO3. *Journal of Materials Research*, **2005**, 20, 952-958	2.5	70
398	Dielectric and piezoelectric properties of sol–gel derived lead magnesium niobium titanate films with different textures. *Journal of Applied Physics*, **2001**, 89, 568-574	2.5	70
397	SrxBa1−xNb2O6–Ferroelectric-thermoelectrics: Crystal anisotropy, conduction mechanism, and power factor. *Applied Physics Letters*, **2010**, 96, 031910	3.4	69
396	Critical slowing down mechanism and reentrant dipole glass phenomena in (1−x)BaTiO3-xBiScO3 (0.1?x?0.4): The high energy density dielectrics. *Physical Review B*, **2011**, 83,	3.3	60
395	The influence of energetic bombardment on the structure and properties of epitaxial SrRuO3 thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **1998**, 83, 4373-4379	2.5	60
394	Lead zirconate titanate MEMS accelerometer using interdigitated electrodes. *Sensors and Actuators A: Physical*, **2003**, 107, 26-35	3.9	60
393	Surface Micromachined Microelectromechancial Ohmic Series Switch Using Thin-Film Piezoelectric Actuators. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 2642-2654	4.1	59
392	Orientation dependence of fatigue behavior in relaxor ferroelectric–PbTiO3 thin films. *Journal of Applied Physics*, **2000**, 87, 3965-3972	2.5	59
391	Fatigue anisotropy in single crystal Pb(Zn1/3Nb2/3)O3–PbTiO3. *Journal of Applied Physics*, **2000**, 88, 7272-7277	2.5	58
390	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. *Advanced Functional Materials*, **2014**, 24, 1409-1417	15.6	57
389	Thermopower in highly reduced n-type ferroelectric and related perovskite oxides and the role of heterogeneous nonstoichiometry. *Physical Review B*, **2009**, 79,	3.3	57
388	Vibration of micromachined circular piezoelectric diaphragms. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 697-706	3.2	57
387	The existence and impact of persistent ferroelectric domains in MAPbI. *Science Advances*, **2019**, 5, eaas9311	14.3	54
386	Critical thickness of high structural quality SrTiO3 films grown on orthorhombic (101) DyScO3. *Journal of Applied Physics*, **2008**, 104, 114109	2.5	53
385	Si-compatible candidates for high-κ dielectrics with the Pbnm perovskite structure. *Physical Review B*, **2010**, 82,	3.3	52
384	Grain size effect on the dielectric nonlinearity of BaTiO3 ceramics. *Journal of Applied Physics*, **2010**, 107, 104116	2.5	52

383	Microstructure development and piezoelectric properties of highly textured CuO-doped KNN by templated grain growth. *Journal of Materials Research*, **2010**, 25, 687-694	2.5	51
382	Templated Grain Growth of Barium Titanate Single Crystals. *Journal of the American Ceramic Society* , **2004**, 83, 2654-2660	3.8	51
381	Growth and properties of (001) BiScO3PbTiO3 epitaxial films. *Applied Physics Letters*, **2002**, 81, 2065-2067	3.4	51
380	Switching spectroscopy piezoresponse force microscopy of polycrystalline capacitor structures. *Applied Physics Letters*, **2009**, 94, 042906	3.4	50
379	Structural and electrical characterization of xBiScO3(1x)BaTiO3 thin films. *Journal of Applied Physics*, **2007**, 101, 024112	2.5	50
378	Polarization fatigue in Pb(Zn1/3Nb2/3)O3PbTiO3 ferroelectric single crystals. *Journal of Applied Physics*, **2001**, 89, 5100-5106	2.5	50
377	Enhanced flexoelectricity through residual ferroelectricity in barium strontium titanate. *Journal of Applied Physics*, **2015**, 117, 094102	2.5	48
376	{001} Oriented piezoelectric films prepared by chemical solution deposition on Ni foils. *Journal of Applied Physics*, **2014**, 116, 014105	2.5	47
375	Processing, texture quality, and piezoelectric properties of C textured (1-x)Pb(Mg1/3Nb2/3)TiO3 - xPbTiO3 ceramics. *Journal of Applied Physics*, **2011**, 110, 014105	2.5	47
374	Sensing characteristics of in-plane polarized lead zirconate titanate thin films. *Applied Physics Letters*, **1999**, 75, 4180-4182	3.4	47
373	Strongly (001) Oriented Bimorph PZT Film on Metal Foils Grown by rf-Sputtering for Wrist-Worn Piezoelectric Energy Harvesters. *Advanced Functional Materials*, **2018**, 28, 1801327	15.6	46
372	Dielectric and ferroelectric properties of Ta-doped bismuth titanate. *Journal of Materials Science Letters*, **2000**, 19, 1661-1664		46
371	Fast Magnetic Domain-Wall Motion in a Ring-Shaped Nanowire Driven by a Voltage. *Nano Letters*, **2016**, 16, 2341-8	11.5	45
370	Influence of Mn doping on domain wall motion in Pb(Zr0.52Ti0.48)O3 films. *Journal of Applied Physics*, **2011**, 109, 064105	2.5	45
369	High frequency piezoelectric MEMS ultrasound transducers. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 2422-30	3.2	45
368	Origin of preferential orthorhombic twinning in SrRuO3 epitaxial thin films. *Applied Physics Letters*, **2000**, 76, 3382-3384	3.4	45
367	Molten salt synthesis of anisometric particles in the SrONb2O5BaO system. *Materials Research Bulletin*, **2004**, 39, 1679-1689	5.1	44
366	Sensors, Actuators, and Smart Materials. *MRS Bulletin*, **1993**, 18, 27-33	3.2	44

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364	Epitaxial growth of anisotropically shaped, single-crystal particles of cubic SrTiO3. *Journal of Materials Research*, **2000**, 15, 846-849	2.5	42
363	In Situ Annealing Studies of Sol-Gel Ferroelectric Thin Films by Spectroscopic Ellipsometry. *Journal of the American Ceramic Society*, **1995**, 78, 1907-1913	3.8	42
362	Domain Wall Motion in A and B Site Donor-Doped Pb(Zr0.52Ti0.48)O3 Films. *Journal of the American Ceramic Society*, **2012**, 95, 2906-2913	3.8	41
361	Piezoelectric and dielectric reliability of lead zirconate titanate thin films. *Journal of Materials Research*, **2000**, 15, 2505-2513	2.5	41
360	Spectroscopic ellipsometry studies on ion beam sputter deposited Pb(Zr, Ti)O3 films on sapphire and Pt-coated silicon substrates. *Thin Solid Films*, **1993**, 230, 15-27	2.2	41
359	Dielectric and piezoelectric properties of textured Sr0.53Ba0.47Nb2O6 ceramics prepared by templated grain growth. *Journal of Materials Research*, **2002**, 17, 2399-2409	2.5	40
358	Growth of (103) fiber-textured SrBi2Nb2O9 films on Pt-coated silicon. *Applied Physics Letters*, **2002**, 80, 2371-2373	3.4	39
357	Residual ferroelectricity in barium strontium titanate thin film tunable dielectrics. *Journal of Applied Physics*, **2014**, 116, 044104	2.5	38
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354	Cubic Pyrochlore Bismuth Zinc Niobate Thin Films for High-Temperature Dielectric Energy Storage. *Journal of the American Ceramic Society*, **2015**, 98, 1223-1229	3.8	37
353	Molten Salt Synthesis of Anisotropic Sr2Nb2O7 Particles. *Journal of the American Ceramic Society*, **2004**, 82, 1565-1568	3.8	37
352	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. *APL Materials*, **2018**, 6, 016101	5.7	36
351	Chemical Solution-Deposited BaTiO3 Thin Films on Ni Foils: Microstructure and Interfaces. *Journal of the American Ceramic Society*, **2008**, 91, 1845-1850	3.8	36
350	Residual stress development in Pb(Zr,Ti)O3/ZrO2/SiO2 stacks for piezoelectric microactuators. *Thin Solid Films*, **2006**, 510, 213-221	2.2	36
349	Quantification of octahedral rotations in strained LaAlO3 films via synchrotron x-ray diffraction. *Physical Review B*, **2013**, 88,	3.3	35
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347	Size Effects and Domains in Ferroelectric Thin Film Actuators. *Materials Research Society Symposia Proceedings*, **1996**, 433, 363		35
346	In situ measurement of increased ferroelectric/ferroelastic domain wall motion in declamped tetragonal lead zirconate titanate thin films. *Journal of Applied Physics*, **2015**, 117, 054103	2.5	34
345	Effect of Grain Size on Dielectric Nonlinearity in Model BaTiO3-Based Multilayer Ceramic Capacitors. *Journal of the American Ceramic Society*, **2011**, 94, 194-199	3.8	34
344	Influence of anisotropic strain on the dielectric and ferroelectric properties of SrTiO3 thin films on DyScO3 substrates. *Physical Review B*, **2009**, 79,	3.3	34
343	Oxygen vacancy motion in Er-doped barium strontium titanate thin films. *Applied Physics Letters*, **2006**, 89, 172906	3.4	34
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339	Dielectric, ferroelectric, and piezoelectric properties of (001) BiScO3PbTiO3 epitaxial films near the morphotropic phase boundary. *Journal of Materials Research*, **2004**, 19, 568-572	2.5	33
338	Upshift of phase transition temperature in nanostructured PbTiO3 thick film for high temperature applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 11980-7	9.5	32
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336	CMOS Ultrasound Transceiver Chip for High-Resolution Ultrasonic Imaging Systems. *IEEE Transactions on Biomedical Circuits and Systems*, **2009**, 3, 293-303	5.1	32
335	Influence of electrical cycling on polarization reversal processes in Pb(Zn1/3Nb2/3)O3-PbTiO3 ferroelectric single crystals as a function of orientation. *Journal of Applied Physics*, **2004**, 95, 4296-4302	2.5	32
334	Low-temperature crystallized pyrochlore bismuth zinc niobate thin films by excimer laser annealing. *Applied Physics Letters*, **2005**, 87, 232905	3.4	32
333	Grain size dependence of properties in lead nickel niobate-lead zirconate titanate films. *Journal of Applied Physics*, **2010**, 107, 024105	2.5	31
332	Excimer Laser Crystallized (Pb,La)(Zr,Ti)O3 Thin Films. *Journal of the American Ceramic Society*, **2008**, 91, 1580-1585	3.8	31
331	Dependence of dielectric and piezoelectric properties on film thickness for highly {100}-oriented lead magnesium niobate–lead titanate (70/30) thin films. *Journal of Materials Research*, **2001**, 16, 268-275	2.5	31
330	Piezoelectricity in ferroelectric thin films: Domain and stress issues. *Ferroelectrics*, **1998**, 206, 381-392	0.6	31

329	Thickness dependence of dielectric nonlinearity of lead zirconate titanate films. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2010**, 57, 1717-23	3.2	30
328	Disorder identification in hysteresis data: recognition analysis of the random-bond-random-field Ising model. *Physical Review Letters*, **2009**, 103, 157203	7.4	30
327	Processing and Electrical Properties of 0.5Pb(Yb1/2Nb1/2)O3-0.5PbTiO3 Ceramics **2003**, 10, 47-55		30
326	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. *Journal of the American Ceramic Society*, **2015**, 98, 1848-1857	3.8	29
325	Pyroelectric response of lead zirconate titanate thin films on silicon: Effect of thermal stresses. *Journal of Applied Physics*, **2013**, 114, 204101	2.5	29
324	Thin-Film Piezoelectric Unimorph Actuator-Based Deformable Mirror With a Transferred Silicon Membrane. *Journal of Microelectromechanical Systems*, **2006**, 15, 1214-1225	2.5	29
323	Design and Fabrication of a Lead Zirconate Titanate (PZT) Thin Film Acoustic Sensor. *Integrated Ferroelectrics*, **2003**, 54, 595-606	0.8	29
322	Dynamic piezoresponse force microscopy: Spatially resolved probing of polarization dynamics in time and voltage domains. *Journal of Applied Physics*, **2012**, 112, 052021	2.5	28
321	Effect of piezoelectric layer thickness and poling conditions on the performance of cantilever piezoelectric energy harvesters on Ni foils. *Sensors and Actuators A: Physical*, **2018**, 273, 90-97	3.9	27
320	Efficient Energy Harvesting Using Piezoelectric Compliant Mechanisms: Theory and Experiment. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2016**, 138,	1.6	27
319	Polarization-based perturbations to thermopower and electronic conductivity in highly conductive tungsten bronze structured (Sr,Ba)Nb2O6: Relaxors vs normal ferroelectrics. *Physical Review B*, **2014**, 90,	3.3	27
318	Spin Spray-Deposited Nickel Manganite Thermistor Films For Microbolometer Applications. *Journal of the American Ceramic Society*, **2011**, 94, 516-523	3.8	27
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316	Unleashing Strain Induced Ferroelectricity in Complex Oxide Thin Films via Precise Stoichiometry Control. *Advanced Functional Materials*, **2016**, 26, 7271-7279	15.6	27
315	Efficient parametric amplification in micro-resonators with integrated piezoelectric actuation and sensing capabilities. *Applied Physics Letters*, **2013**, 102, 163504	3.4	26
314	Epitaxial Pb(Zrx,Ti1⊠)O3 (0.30⁄⁄x⁄⁄0.63) films on (100)MgO substrates for energy harvesting applications. *Journal of Applied Physics*, **2012**, 112, 074107	2.5	26
313	Fabrication and characterization of micromachined high-frequency tonpilz transducers derived by PZT thick films. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2005**, 52, 350-7	3.2	26
312	Relaxor Ferroelectric Behavior in Barium Strontium Titanate. *Journal of the American Ceramic Society*, **2016**, 99, 1645-1650	3.8	26

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309	Wearable inertial energy harvester with sputtered bimorph lead zirconate titanate (PZT) thin-film beams. *Smart Materials and Structures*, **2018**, 27, 085026	3.4	24
308	Local measurements of Preisach density in polycrystalline ferroelectric capacitors using piezoresponse force spectroscopy. *Applied Physics Letters*, **2010**, 96, 112906	3.4	24
307	High temperature and high energy density dielectric materials **2009**,		24
306	Growth and characterization of Pb(Mg1/3Nb2/3)O3 and Pb(Mg1/3Nb2/3)O3PbTiO3 thin films using solid source MOCVD techniques. *Journal of Crystal Growth*, **2001**, 226, 247-253	1.6	24
305	Ferroelectric Switching in Sub-20 nm Aluminum Scandium Nitride Thin Films. *IEEE Electron Device Letters*, **2020**, 41, 1774-1777	4.4	23
304	Pathway to the piezoelectronic transduction logic device. *Nano Letters*, **2015**, 15, 2391-5	11.5	22
303	Materials and approaches for on-body energy harvesting. *MRS Bulletin*, **2018**, 43, 206-213	3.2	22
302	Reentrant dipole glass properties in (1 k)BaTiO3 kBiScO3, 0.1 x 0.4. *Applied Physics Letters*, **2012**, 100, 022906	3.4	22
301	Mapping piezoelectric nonlinearity in the Rayleigh regime using band excitation piezoresponse force microscopy. *Applied Physics Letters*, **2011**, 98, 212901	3.4	22
300	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	3.2	21
299	Polarization Dynamics in Ferroelectric Capacitors: Local Perspective on Emergent Collective Behavior and Memory Effects. *Advanced Functional Materials*, **2013**, 23, 2490-2508	15.6	21
298	Effect of Oxygen Partial Pressure During Firing on the High AC Field Response of BaTiO3 Dielectrics. *Journal of the American Ceramic Society*, **2010**, 93, 1081-1088	3.8	21
297	Transverse piezoelectric properties of epitaxial Pb(Yb1/2Nb1/2)O3PbTiO3 (50/50) films. *Journal of Crystal Growth*, **2001**, 229, 445-449	1.6	21
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107	Deposition and Electrical Characterization of Epitaxial Pb(Mg1/3Nb2/3)O3-PbTiO3 (70/30) Thin Films. *Materials Research Society Symposia Proceedings*, **1997**, 493, 421		3
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103	Concept, modeling, and fabrication techniques for large-stroke piezoelectric unimorph deformable mirrors **2003**, 4983, 271		3
102	Fabrication and performance of d33-mode lead-zirconate-titanate (PZT) MEMS accelerometers **2001**,		3
101	Fabrication of MEMS Tonpilz Transducers. *Materials Research Society Symposia Proceedings*, **2001**, 687, 1		3
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98	Optimized Design, Fabrication and Characterization of PZT Unimorph Microactuators for Deformable Mirrors **2004**,		3
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92	Residual Stress and Ferroelastic Domain Reorientation in Declamped {001} Pb(ZrTi)O Films. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2021**, 68, 259-272	3.2	3
91	Flexoelectric barium strontium titanate (BST) hydrophones. *Journal of Applied Physics*, **2021**, 129, 064504	2.5	3
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89	Annealing behavior and electrical properties of atomic layer deposited PbTiO3 and PZT films. *Journal of Crystal Growth*, **2018**, 493, 45-50	1.6	2
88	Ultraviolet-assisted cold poling of Pb(Zr0.52Ti0.48)O3 films. *Journal of Materials Science*, **2018**, 53, 7180-7186	4.3	2
87	Cobalt doping to influence the electrical conductivity of (Bi 0.91 Dy 0.09)FeO 3 ceramics. *Materials Letters*, **2018**, 225, 126-129	3.3	2
86	Influence of Li doping on domain wall motion in Pb(Zr0.52Ti0.48)O3 films. *Journal of Materials Science*, **2014**, 49, 7883-7889	4.3	2
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84	Improved control and characterization of adjustable x-ray optics **2015**,		2
83	Toward active x-ray telescopes **2011**,		2
82	Technology development of adjustable grazing incidence x-ray optics for sub-arc second imaging **2012**,		2
81	Generation-X mirror technology development plan and the development of adjustable x-ray optics **2009**,		2
80	The Influence of Film Thickness on the Magnitude and Aging Behavior of the Transverse Piezoelectric Coefficient (d31) of PZT Thin Films. *Materials Research Society Symposia Proceedings*, **1997**, 493, 415		2
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67	Local measurements of domain wall-induced self-heating in released PbZr0.52Ti0.48O3 films. *Journal of Applied Physics*, **2020**, 128, 214102	2.5	2
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64	Mechanical failure dependence on the electrical history of lead zirconate titanate thin films. *Journal of the European Ceramic Society*, **2021**, 41, 2465-2471	6	2
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60	Fabrication of bimorph lead zirconate titanate thick films on metal substrates via the cold sintering-assisted process. *Acta Materialia*, **2020**, 195, 482-490	8.4	1

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57	Coherent Growth of □Fe2O3 in Ti and Nd Co-doped BiFeO3 Thin Films. *Materials Research Letters*, **2016**, 4, 168-173	7.4	1
56	PZT-based high coupling with low permittivity thin films **2013**,		1
55	Fabrication and characterization of mechanical resonators integrating microcontact printed PZT films **2017**,		1
54	Toward large-area sub-arcsecond x-ray telescopes **2014**,		1
53	Measuring the performance of adjustable x-ray optics with wavefront sensing **2014**,		1
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51	Piezoelectric thin films for a high frequency ultrasound transducer with integrated electronics **2010**,		1
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39	Characterization of Pzt Films by Scanning Force Microscopy (SFM). *Materials Research Society Symposia Proceedings*, **1996**, 433, 437		1
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30	Piezoelectric MEMS Energy Harvesters for Powering Sensor Systems. *Proceedings (mdpi)*, **2018**, 2, 1103	0.3	1
29	Sputtered Lead Zirconate Titanate Thin Films Deposited on Silicon-on-Sapphire Substrates **2018**,		1
28	Piezoelectric Energy Generation **2018**, 33-59		1
27	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. *Applied Physics Letters*, **2022**, 120, 182903	3.4	1
26	Challenges in double-beam laser interferometry measurements of fully released piezoelectric films. *Journal of Applied Physics*, **2022**, 131, 214102	2.5	1
25	Oxygen octahedral tilt ordering in (Na1/2Bi1/2)TiO3 ferroelectric thin films. *Applied Physics Letters*, **2020**, 116, 022902	3.4	0
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6	Composition Control of Lead Or Bismuth Based Ferroelectric Thin Films Prepared by Sputtering Method. *Materials Research Society Symposia Proceedings*, **1995**, 403, 591		

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3 Portable High-Frequency Ultrasound Imaging System Design and Hardware Considerations **2017**, 337-364

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1 Activation energies for crystallization of manganese-doped (K,Na)NbO3 thin films deposited from a chemical solution. *Journal of the American Ceramic Society*, **2021**, 104, 4968-4976 3.8