Dwight Viehland

List of Publications by Year in Descending Order

452 papers	27,674 citations	74 h-index	153 g-index
460 ext. papers	29,507 ext. citations	3.3 avg, IF	6.79 L-index

#	Paper	IF	Citations
452	A Passive Tunable Magnetoelectric Gyrator: A Highly Efficient Approach to Non-Power Consumable Capacitor Control Methods. *IEEE Transactions on Industrial Electronics*, **2021**, 68, 1646-1653	8.9	4
451	Dephasing of transverse spin current in ferrimagnetic alloys. *Physical Review B*, **2021**, 103,	3.3	8
450	Magnetoelectricity in vertically aligned nanocomposites: Past, present, and future. *MRS Bulletin*, **2021**, 46, 123-130	3.2	1
449	Spatial magnetic source detection based on active mode magnetoelectric gradiometer with 2D and 3D configurations. *Journal Physics D: Applied Physics*, **2020**, 53, 365002	3	3
448	Estimation of the Intrinsic Power Efficiency in Magnetoelectric Laminates Using Temperature Measurements. *Sensors*, **2020**, 20,	3.8	2
447	Multiferroic Magnetoelectric Composites: Historical Perspective, Status, and Future Directions **2020**, 191-293		0
446	Combining effects of TiO6 octahedron rotations and random electric fields on structural and properties in Na0.5Bi0.5TiO3. *Journal of the American Ceramic Society*, **2020**, 103, 3349-3360	3.8	5
445	Dimension effects of a magnetoelectric gyrator with FeCoSiB/Pb(Zr,Ti)O3 layered composites core for efficient power conversion. *Sensors and Actuators A: Physical*, **2020**, 302, 111815	3.9	2
444	Large Piezoelectricity in Ternary Lead-Free Single Crystals. *Advanced Electronic Materials*, **2020**, 6, 1900949	6.4	58
443	A Piezoelectric Mn-Doped PMN-PT/Metglas Magnetoelectric Gyrator: Enhanced Power Efficiency at Reduced Size. *IEEE Sensors Journal*, **2020**, 20, 752-759	4	4
442	Multi-layered domain morphology in relaxor single crystals with nano-patterned composite electrode. *Acta Materialia*, **2020**, 182, 10-17	8.4	12
441	Depth dependent ferroelectric to incommensurate/commensurate antiferroelectric phase transition in epitaxial lanthanum modified lead zirconate titanate thin films. *Applied Physics Letters*, **2019**, 115, 072901	3.4	6
440	Phase Modulation Noise of a Magneto(Elasto) Electric Sensor Operating as a Magnetometer in the Non-Linear Regime—Theoretical and Experimental Studies. *IEEE Sensors Journal*, **2019**, 19, 3647-3653	4	3
439	Apparent phase stability and domain distribution of PMN-30PT single crystals with nanograted Au/MnOx electrodes. *Acta Materialia*, **2019**, 169, 28-35	8.4	11
438	Nanostructure-enhanced magnetoelectric/magnetostrictive properties and reduced losses in self-assembled epitaxial CuFe2O4–BiFeO3 layers on Pb(Mg1/3Nb2/3)O3–33at%PbTiO3 crystals. *Journal of the American Ceramic Society*, **2019**, 102, 5192-5202	3.8	10
437	Electric field induced splitting of the preferred orientation in PMN-PT textured ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 5038-5044	3.8	2
436	Power Conversion Efficiency and Equivalent Input Loss Factor in Magnetoelectric Gyrators. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 2499-2505	8.9	16

435	Non-volatility using materials with only volatile properties: Vertically integrated magnetoelectric heterostructures and their potential for multi-level-cell devices. *Applied Physics Letters*, **2019**, 114, 242903	3.4	8
434	Self-assembled epitaxial BiFeO3-Ni0.65Zn0.35Al0.8Fe1.2O4 nanobelt heterostructures on SrTiO3: Control of magnetic anisotropy, easy axis, and coercivity. *Journal of Applied Physics*, **2019**, 126, 123905	2.5	3
433	Mechanical-Induced Polarization Switching in Relaxor Ferroelectric Single Crystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 40758-40768	9.5	11
432	A Low Frequency Mechanical Transmitter Based on Magnetoelectric Heterostructures Operated at Their Resonance Frequency. *Sensors*, **2019**, 19,	3.8	21
431	A dual-output magnetoelectric gyrator. *Journal Physics D: Applied Physics*, **2019**, 52, 065003	3	9
430	Magnetoelectric coupling induced multistate magnetization. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 908-910	2.3	1
429	Depth dependant element analysis of PbMgNbO using muonic x-rays. *Journal of Physics Condensed Matter*, **2018**, 30, 125703	1.8	5
428	Magnetoelectric gradiometer with enhanced vibration rejection efficiency under H-field modulation. *Journal of Applied Physics*, **2018**, 123, 104501	2.5	3
427	Nanopillars with E-field accessible multi-state (N 4) magnetization having giant magnetization changes in self-assembled BiFeO-CoFeO/Pb(MgNb)-38at%PbTiO heterostructures. *Scientific Reports*, **2018**, 8, 1628	4.9	13
426	Evaluation of magnetomechanical conversion efficiencies in magnetoelectric gyrators. *AIP Advances*, **2018**, 8, 056607	1.5	3
425	Magnetoelectricity of CoFeO and tetragonal phase BiFeO nanocomposites prepared by pulsed laser deposition. *Scientific Reports*, **2018**, 8, 323	4.9	11
424	Enhanced tunability of magneto-impedance and magneto-capacitance in annealed Metglas/PZT magnetoelectric composites. *AIP Advances*, **2018**, 8, 055803	1.5	6
423	A Highly Efficient Self-Biased Nickel-Zinc Ferrite/Metglas/PZT Magnetoelectric Gyrator. *Physica Status Solidi - Rapid Research Letters*, **2018**, 12, 1800043	2.5	14
422	Patterned nano-domains in PMN-PT single crystals. *Acta Materialia*, **2018**, 143, 166-173	8.4	33
421	Tutorial: Product properties in multiferroic nanocomposites. *Journal of Applied Physics*, **2018**, 124, 061101	2.5	23
420	Stability enhancement of yttrium substituted nickel zinc ferrite/PZT magnetoelectric gyrators under high power conditions. *Applied Physics Letters*, **2018**, 112, 242901	3.4	14
419	Spontaneous decay of a soft optical phonon in the relaxor ferroelectric PbMg1/3Nb2/3O3. *Physical Review Materials*, **2018**, 2,	3.2	8
418	Magnetoelectric magnetic field sensors. *MRS Bulletin*, **2018**, 43, 834-840	3.2	41

417	A review on applications of magnetoelectric composites: from heterostructural uncooled magnetic sensors, energy harvesters to highly efficient power converters. *Journal Physics D: Applied Physics*, **2018**, 51, 263002	3	92
416	Heterogeneous domain configurations in ferroelectric crystals during thermal depolarization. *Journal of the American Ceramic Society*, **2017**, 100, 1751-1759	3.8	8
415	A magnetoelectric sensor of threshold DC magnetic fields. *Journal of Applied Physics*, **2017**, 121, 154503	2.5	10
414	Structural origin of room temperature poling enhanced piezoelectricity in modified Pb(Mg1/3Nb2/3)O3-30%PbTiO3 crystals. *Journal of the American Ceramic Society*, **2017**, 100, 4938-4944	3.8	7
413	Importance of composite parameters in enhanced power conversion efficiency of Terfenol-D/PZT magnetoelectric gyrators. *Applied Physics Letters*, **2017**, 110, 112904	3.4	24
412	Phase Transition in the Near-Surface Region of Ternary Pb(In1/2Nb1/2)O3Pb(Mg1/3Nb2/3)O3PbTiO3 Relaxor Ferroelectric Crystals. *Physical Review Applied*, **2017**, 8,	4.3	13
411	Enhanced stability of magnetoelectric gyrators under high power conditions. *Applied Physics Letters* , **2017**, 111, 182901	3.4	13
410	Upper limit for power conversion in magnetoelectric gyrators. *Applied Physics Letters*, **2017**, 111, 163902	3.4	17
409	E-field controlled phase transformation in bismuth ferrite thin films, and effect of laser energy density. *Applied Physics Letters*, **2017**, 111, 152905	3.4	6
408	Frequency reconfigurable phase modulated magnetoelectric sensors using E effect. *Applied Physics Letters*, **2017**, 111, 032905	3.4	16
407	Highly efficient solid state magnetoelectric gyrators. *Applied Physics Letters*, **2017**, 111, 122904	3.4	23
406	Power conversion process in magnetoelectric gyrators. *Applied Physics Letters*, **2017**, 111, 103902	3.4	13
405	Fragile morphotropic phase boundary and phase stability in the near-surface region of the relaxor ferroelectric (1)Pb(Zn1/3Nb2/3)O3PbTiO3: [001] field-cooled phase diagrams. *Physical Review B*, **2016**, 94,	3.3	11
404	Large field-induced-strain at high temperature in ternary ferroelectric crystals. *Scientific Reports*, **2016**, 6, 35120	4.9	8
403	Tunable Magnetoelectric Bending Resonance for Sensing Static Magnetic Fields. *IEEE Sensors Journal*, **2016**, 16, 662-669	4	7
402	Power conversion efficiency and resistance tunability in coil-magnetoelectric gyrators. *Applied Physics Letters*, **2016**, 109, 202907	3.4	28
401	A magnetoelectric composite based signal generator. *Applied Physics Letters*, **2016**, 108, 213502	3.4	6
400	Hierarchical domain structure of lead-free piezoelectric (Na1/2 Bi1/2)TiO3-(K1/2 Bi1/2)TiO3 single crystals. *Journal of Applied Physics*, **2016**, 119, 174102	2.5	4

399	Investigation of a Bending-Mode Magneto(Elasto)electric Sensor Using a Phase Modulation With a PLL. *IEEE Sensors Journal*, **2016**, 16, 5557-5562	4	3
398	Giant strain with ultra-low hysteresis and high temperature stability in grain oriented lead-free K0.5Bi0.5TiO3-BaTiO3-Na0.5Bi0.5TiO3 piezoelectric materials. *Scientific Reports*, **2015**, 5, 8595	4.9	73
397	Anatomy of vertical heteroepitaxial interfaces reveals the memristive mechanism in NbO–NaNbO thin films. *Scientific Reports*, **2015**, 5, 9229	4.9	10
396	Magnetoelectric quasi-(0-3) nanocomposite heterostructures. *Nature Communications*, **2015**, 6, 6680	17.4	77
395	Dynamic Sensitivity and Noise Floor of a Bonded Magneto(Elasto)Electric Laminate for Low Frequency Magnetic Field Sensing under Strain Modulations. *Key Engineering Materials*, **2015**, 644, 236-239	0.4	2
394	A differential magnetoelectric heterostructure: Internal noise reduction and external noise cancellation. *Journal of Applied Physics*, **2015**, 118, 214103	2.5	6
393	Mechanical Noise Limit of a Strain-Coupled Magneto(Elasto)electric Sensor Operating Under a Magnetic or an Electric Field Modulation. *IEEE Sensors Journal*, **2015**, 15, 1575-1587	4	21
392	Sensitivity and Noise Evaluation of a Bonded Magneto(elasto) Electric Laminated Sensor Based on In-Plane Magnetocapacitance Effect for Quasi-Static Magnetic Field Sensing. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	13
391	High non-linear magnetoelectric coefficient in Metglas/PMN-PT laminate composites under zero direct current magnetic bias. *Journal of Applied Physics*, **2014**, 115, 094102	2.5	22
390	Theoretical Intrinsic Equivalent Magnetic Noise Evaluation for Magneto (Elasto) Electric Sensors Using Modulation Techniques. *IEEE Sensors Journal*, **2014**, 14, 150-158	4	15
389	Magnetoelectric assisted 180° magnetization switching for electric field addressable writing in magnetoresistive random-access memory. *ACS Nano*, **2014**, 8, 7793-800	16.7	46
388	Magnetoelectrics for magnetic sensor applications: status, challenges and perspectives. *Materials Today*, **2014**, 17, 269-275	21.8	221
387	Influence of Conductivity on Raman Scattering Intensity in Li-modified AgNbO3 Crystals. *Ferroelectrics*, **2014**, 470, 212-220	0.6	1
386	Phase coexistence and transformations in field-cooled ternary piezoelectric single crystals near the morphotropic phase boundary. *Applied Physics Letters*, **2014**, 105, 232901	3.4	8
385	Piezoelectric single crystal and magnetostrictive Metglas composites: Linear and nonlinear magnetoelectric coupling. *Applied Physics Letters*, **2014**, 104, 142909	3.4	5
384	Electric-field induced strain modulation of magnetization in Fe-Ga/Pb(Mg1/3Nb2/3)-PbTiO3 magnetoelectric heterostructures. *Journal of Applied Physics*, **2014**, 115, 084101	2.5	7
383	Giant magnetoelectric effect in nonlinear Metglas/PIN-PMN-PT multiferroic heterostructure. *Applied Physics Letters*, **2014**, 105, 152902	3.4	28
382	Evolution of structure in Na0.5Bi0.5TiO3 single crystals with BaTiO3. *Applied Physics Letters*, **2014**, 105, 162913	3.4	27

381	Electrical and thermal control of magnetic coercive field in ferromagnetic/ferroelectric heterostructures. *Physical Review B*, **2014**, 89,	3.3	27
380	Crafting the strain state in epitaxial thin films: A case study of CoFe2O4 films on Pb(Mg,Nb)O3PbTiO3. *Physical Review B*, **2014**, 90,	3.3	18
379	Investigations on the Equivalent Magnetic Noise of Magneto(Elasto)Electric Sensors by Using Modulation Techniques. *Key Engineering Materials*, **2014**, 605, 344-347	0.4	1
378	Engineered magnetic shape anisotropy in BiFeO3-CoFe2O4 self-assembled thin films. *ACS Nano*, **2013**, 7, 3447-56	16.7	66
377	Volatile and nonvolatile magnetic easy-axis rotation in epitaxial ferromagnetic thin films on ferroelectric single crystal substrates. *Applied Physics Letters*, **2013**, 103, 132909	3.4	40
376	Flux distraction effect on magnetoelectric laminate sensors and gradiometer. *Journal of Applied Physics*, **2013**, 114, 134104	2.5	3
375	Lead-free and lead-based ABO3 perovskite relaxors with mixed-valence A-site and B-site disorder: Comparative neutron scattering structural study of (Na1/2Bi1/2)TiO3 and Pb(Mg1/3Nb2/3)O3. *Physical Review B*, **2013**, 88,	3.3	56
374	Monolithic magnetoelectric heterostructure with enhanced ferroelectric and piezoelectric properties and tunable magnetic properties. *Materials Letters*, **2013**, 113, 159-162	3.3	2
373	Direct evidence of correlations between relaxor behavior and polar nano-regions in relaxor ferroelectrics: A case study of lead-free piezoelectrics Na0.5Bi0.5TiO3-x%BaTiO3. *Applied Physics Letters*, **2013**, 103, 241914	3.4	37
372	X-ray diffraction study of the pressure-induced bcc-to-hcp phase transition in the highly magnetostrictive Fe0.81Ga0.19 alloy. *Physical Review B*, **2013**, 88,	3.3	3
371	Optical crystallographic study of piezoelectric KxNa1NbO3 (x = 0.4, 0.5 and 0.6) single crystals using linear birefringence. *CrystEngComm*, **2013**, 15, 6790	3.3	17
370	Nonlinear magnetoelectric response of a Metglas/piezofiber laminate to a high-frequency bipolar AC magnetic field. *Applied Physics Letters*, **2013**, 102, 102905	3.4	16
369	Stress reconfigurable tunable magnetoelectric resonators as magnetic sensors. *Applied Physics Letters*, **2013**, 102, 042909	3.4	26
368	Giant magnetoelectric effect in self-biased laminates under zero magnetic field. *Applied Physics Letters*, **2013**, 102, 082404	3.4	88
367	Mechanical loss and magnetoelectric response in magnetostrictive/interdigitated-electrode/piezoelectric laminated resonators. *Journal of Applied Physics*, **2013**, 113, 124508	2.5	7
366	Piezomagnetic strain-dependent non-linear magnetoelectric response enhancement by flux concentration effect. *Applied Physics Letters*, **2013**, 102, 172904	3.4	20
365	Alternating and direct current field effects on the structure-property relationships in Na0.5Bi0.5TiO3-x%BaTiO3 textured ceramics. *Applied Physics Letters*, **2013**, 102, 222905	3.4	8
364	Effective optimization of magnetic noise for a Metglas/Pb(Zr,Ti)O3 magnetoelectric sensor array in an open environment. *Materials Letters*, **2013**, 91, 307-310	3.3	7

363	Structural dependence of nonlinear magnetoelectric effect for magnetic field detection by frequency modulation. *Journal of Applied Physics*, **2013**, 114, 144501	2.5	8
362	Self-powered low noise magnetic sensor. *Materials Letters*, **2012**, 82, 178-180	3.3	12
361	Giant resonant magnetoelectric effect in bi-layered Metglas/Pb(Zr,Ti)O3 composites. *Journal of Applied Physics*, **2012**, 112, 104101	2.5	28
360	A monoclinic-tetragonal ferroelectric phase transition in lead-free (K0.5Na0.5)NbO3-x%LiNbO3 solid solution. *Journal of Applied Physics*, **2012**, 111, 103503	2.5	47
359	Evidence for anisotropic polar nanoregions in relaxor Pb(Mg1/3Nb2/3)O3: A neutron study of the elastic constants and anomalous TA phonon damping in PMN. *Physical Review B*, **2012**, 86,	3.3	18
358	Thermal stability of magnetoelectric sensors. *Applied Physics Letters*, **2012**, 100, 173505	3.4	29
357	Giant converse magnetoelectric effect in multi-push-pull mode Metglas/Pb(Zr,Ti)O3/Metglas laminates. *Applied Physics Letters*, **2012**, 100, 132904	3.4	16
356	Theoretical modelling of magnetoelectric effects in multi-push□ull mode Metglas/piezo-fibre laminates. *Journal Physics D: Applied Physics*, **2012**, 45, 355002	3	13
355	Controlled growth of epitaxial BiFeO3 films using self-assembled BiFeO3-CoFe2O4 multiferroic heterostructures as a template. *Applied Physics Letters*, **2012**, 101, 022905	3.4	29
354	Geometry-induced magnetoelectric effect enhancement and noise floor reduction in Metglas/piezofiber sensors. *Applied Physics Letters*, **2012**, 101, 092905	3.4	26
353	Quasi-static (f. *Materials Letters*, **2012**, 85, 84-87	3.3	22
352	Geomagnetic field tuned frequency multiplication in Metglas/Pb(Zr, Ti)O3 heterostructure. *Materials Letters*, **2012**, 88, 47-50	3.3	7
351	Influence of interfacial bonding condition on magnetoelectric properties in piezofiber/Metglas heterostructures. *Journal of Alloys and Compounds*, **2012**, 513, 242-244	5.7	37
350	Improvement of magnetoelectric properties in Metglas/Pb(Mg1/3Nb2/3)O3□PbTiO3 laminates by poling optimization. *Journal of Alloys and Compounds*, **2012**, 519, 1-3	5.7	23
349	Phase switching at low field and large sustainable strain output in domain engineered ferroic crystals. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 2108-2113	1.6	11
348	Large dielectric tunability in Na0.5Bi0.5TiO3□ %BaTiO3 single crystals. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 397-399	2.5	1
347	Aging associated domain evolution in the orthorhombic phase of <001> textured (K0.5Na0.5)Nb0.97Sb0.03O3 ceramics. *Applied Physics Letters*, **2012**, 100, 132902	3.4	12
346	Theoretical and experimental investigation of magnetoelectric effect for bending-tension coupled modes in magnetostrictive-piezoelectric layered composites. *Journal of Applied Physics*, **2012**, 112, 013908	2.5	39

345	Role of coexisting tetragonal regions in the rhombohedral phase of Na0.5Bi0.5TiO3-xat.%BaTiO3 crystals on enhanced piezoelectric properties on approaching the morphotropic phase boundary. *Applied Physics Letters*, **2012**, 100, 012901	3.4	53
344	Domain rotation induced strain effect on the magnetic and magneto-electric response in CoFe2O4/Pb(Mg,Nb)O3-PbTiO3 heterostructures. *Journal of Applied Physics*, **2012**, 111, 034108	2.5	28
343	Magnetic field dependence of the effective permittivity in multiferroic composites. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 2059-2062	1.6	19
342	Phase-controlled epitaxial growth of iron oxide thin films on MgO(001) and LaAlO3(001) substrates. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 89-91	2.5	2
341	Tunable magnetic anisotropy of CoFe2O4 nanopillar arrays released from BiFeO3 matrix. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 92-94	2.5	8
340	Electric-field tuning of magnetoelectric properties in Metglas/piezofiber composites. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 265-267	2.5	9
339	Magnetoelectric properties of flexible BiFeO3/Ni tapes. *Applied Physics Letters*, **2012**, 101, 012908	3.4	15
338	Ultralow equivalent magnetic noise in a magnetoelectric Metglas/Mn-doped Pb(Mg1/3Nb2/3)O3-PbTiO3 heterostructure. *Applied Physics Letters*, **2012**, 101, 022903	3.4	25
337	Enhanced magnetoelectric effect in self-stressed multi-push-pull mode Metglas/Pb(Zr,Ti)O3/Metglas laminates. *Applied Physics Letters*, **2012**, 101, 022908	3.4	19
336	Ultrahigh electromechanical response in (1−x)(Na0.5Bi0.5)TiO3-xBaTiO3 single-crystals via polarization extension. *Journal of Applied Physics*, **2012**, 111, 093508	2.5	46
335	The influence of Mn substitution on the local structure of Na0.5Bi0.5TiO3 crystals: Increased ferroelectric ordering and coexisting octahedral tilts. *Journal of Applied Physics*, **2012**, 111, 064109	2.5	17
334	Enhancement in magnetic field sensitivity and reduction in equivalent magnetic noise by magnetoelectric laminate stacks. *Journal of Applied Physics*, **2012**, 111, 104504	2.5	15
333	Shear-mode magnetostrictive/piezoelectric composite with an enhanced magnetoelectric coefficient. *Applied Physics Letters*, **2012**, 100, 202903	3.4	34
332	Expected Equivalent Magnetic Noise Spectral Density of Magnetoelectric Composites as Magnetic sensors: From Theory to Experiments. *Materials Research Society Symposia Proceedings*, **2012**, 1398, 21		3
331	Piezoelectric properties of epitaxial Pb(Zr0.525, Ti0.475)O3 films on amorphous magnetic metal substrates. *Journal of Applied Physics*, **2012**, 111, 07D916	2.5	6
330	Dependence of magnetic field sensitivity of a magnetoelectric laminate sensor pair on separation distance: Effect of mutual inductance. *Journal of Applied Physics*, **2012**, 111, 033923	2.5	12
329	Theoretical model for geometry-dependent magnetoelectric effect in magnetostrictive/piezoelectric composites. *Journal of Applied Physics*, **2012**, 111, 124513	2.5	36
328	Modeling of resonant magneto-electric effect in a magnetostrictive and piezoelectric laminate composite structure coupled by a bonding material. *Journal of Applied Physics*, **2012**, 112, 064109	2.5	17

327	Self-assembled NaNbO3-Nb2O5 (ferroelectric-semiconductor) heterostructures grown on LaAlO3 substrates. *Applied Physics Letters*, **2012**, 101, 132902	3.4	7
326	Epitaxial growth of Pb(Zr0.53Ti0.47)O3 films on Pt coated magnetostrictive amorphous metallic substrates toward next generation multiferroic heterostructures. *Journal of Applied Physics*, **2012**, 111, 064104	2.5	7
325	Investigation of vehicle induced magnetic anomaly by triple-axis magnetoelectric sensors. *Smart Materials and Structures*, **2012**, 21, 115007	3.4	9
324	Crystallographic direction dependence of direct current field induced strain and phase transitions in Na0.5Bi0.5TiO3-x%BaTiO3 single crystals near the morphotropic phase boundary. *Applied Physics Letters*, **2012**, 101, 141912	3.4	28
323	Investigation on the Magnetic Noise of Stacked Magnetostricitive-Piezoelectric Laminated Composites. *Sensor Letters*, **2012**, 10, 961-965	0.9	9
322	Giant magnetoelectric torque effect and multicoupling in two phases ferromagnetic/piezoelectric system. *Journal of Applied Physics*, **2011**, 110, 104510	2.5	31
321	Magnetoelectric nonlinearity in magnetoelectric laminate sensors. *Journal of Applied Physics*, **2011**, 110, 114510	2.5	33
320	Theoretical analysis of the intrinsic magnetic noise spectral density of magnetostrictive-piezoelectric laminated composites. *Journal of Applied Physics*, **2011**, 109, 124512	2.5	17
319	Analysis of Noise in Magnetoelectric Thin-Layer Composites Used as Magnetic Sensors. *IEEE Sensors Journal*, **2011**, 11, 2183-2188	4	26
318	Improved Sensitivity and Noise in Magneto-Electric Magnetic Field Sensors by Use of Modulated AC Magnetostriction. *IEEE Magnetics Letters*, **2011**, 2, 2500104-2500104	1.6	53
317	Evaluation of Applied Axial Field Modulation Technique on ME Sensor Input Equivalent Magnetic Noise Rejection. *IEEE Sensors Journal*, **2011**, 11, 2266-2272	4	31
316	Effect of Mn substituents on the domain and local structures of Na1/2Bi1/2TiO3–BaTiO3 single crystals near a morphotropic phase boundary. *Applied Physics Letters*, **2011**, 98, 132903	3.4	28
315	Enhanced sensitivity to direct current magnetic field changes in Metglas/Pb(Mg1/3Nb2/3)O3–PbTiO3 laminates. *Journal of Applied Physics*, **2011**, 109, 074507	2.5	60
314	Enhancing the sensitivity of magnetoelectric sensors by increasing the operating frequency. *Journal of Applied Physics*, **2011**, 110, 124506	2.5	40
313	Nucleation of Rhombohedral Regions Within a Tetragonal Matrix in Mn-Doped Na0.5Bi0.5TiO3 Crystals: Origins of a Diffuse Transformation, Thermal Hysteresis, and Isotropization. *Journal of the American Ceramic Society*, **2011**, 94, 478-481	3.8	2
312	Domain Evolution in PbMg1/3Nb2/3O3–30at%PbTiO3 with Temperature and Electric Field. *Journal of the American Ceramic Society*, **2011**, 94, 2479-2482	3.8	12
311	Influence of BaTiO3 Content on the Structure and Properties of Na0.5Bi0.5TiO3 Crystals. *Journal of the American Ceramic Society*, **2011**, 94, 3084-3087	3.8	20
310	Enhanced Sensitivity and Reduced Noise Floor in Magnetoelectric Laminate Sensors by an Improved Lamination Process. *Journal of the American Ceramic Society*, **2011**, 94, 3738-3741	3.8	49

309	Analysis of the environmental magnetic noise rejection by using two simple magnetoelectric sensors. *Sensors and Actuators A: Physical*, **2011**, 171, 63-68	3.9	16
308	Effect of heat treatment on the properties of Metglas foils, and laminated magnetoelectric composites made thereof. *Materials Research Bulletin*, **2011**, 46, 266-270	5.1	14
307	When Pt meets BaTiO3: Interaction between metal nanoparticles and oxide thin films. *Materials Letters*, **2011**, 65, 1207-1210	3.3	1
306	Equivalent magnetic noise in magnetoelectric Metglas/Pb(Mg1/3Nb2/3)O3-PbTiO3 laminate composites. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 232-234	2.5	22
305	In-situ X-ray diffraction study of an electric field induced phase transition and giant strain in Na0.5Bi0.5TiO3 %BaTiO3 lead-free single crystals. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 356-358	2.5	11
304	Strong magnetoelectric coupling in highly oriented ZnO films deposited on Metglas substrates. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 391-393	2.5	12
303	An extremely low equivalent magnetic noise magnetoelectric sensor. *Advanced Materials*, **2011**, 23, 4111-4	19.4	272
302	Raman spectroscopic study of Na1/2Bi1/2TiO3-x%BaTiO3 single crystals as a function of temperature and composition. *Journal of Applied Physics*, **2011**, 109, 113507	2.5	70
301	Magneto-Electro-Chemical Behavior of BaTiO3-CoFe2O4 Self-Assembled Thin Films. *Journal of the Electrochemical Society*, **2011**, 158, K149	3.9	7
300	Electric field dependent phase stability and structurally bridging orthorhombic phase in Na0.5Bi0.5TiO3-x%BaTiO3 crystals near the MPB. *Solid State Communications*, **2011**, 151, 71-74	1.6	15
299	Magnetoelectric effect in crystallographically textured BaTiO3 films deposited on ferromagnetic metallic glass foils. *Journal of Applied Physics*, **2011**, 109, 034102	2.5	20
298	Giant electric field controlled magnetic anisotropy in epitaxial BiFeO3-CoFe2O4 thin film heterostructures on single crystal Pb(Mg1/3Nb2/3)0.7Ti0.3O3 substrate. *Applied Physics Letters*, **2011**, 99, 043110	3.4	62
297	Enhanced dc magnetic field sensitivity by improved flux concentration in magnetoelectric laminates. *Applied Physics Letters*, **2011**, 99, 153502	3.4	37
296	Coaxial Multiferroic Nanorod Arrays. *Journal of the American Ceramic Society*, **2010**, 93, 362-364	3.8	5
295	Influence of Mn Doping on the Structure and Properties of Na0.5Bi0.5TiO3 Single Crystals. *Journal of the American Ceramic Society*, **2010**, 93, 1372	3.8	32
294	Hybrid Two-Phase Magnetic Nanorod Grains. *Journal of the American Ceramic Society*, **2010**, 93, 3803-3807	3.8	38
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7	Single crystal ultrasonic motor for cryogenic actuations		1
6	The complex piezoelectric response of relaxor ferroelectrics		2
5	Incommensuration in "dirty" antiferroelectrics		1
4	Investigation of the Ferroelectric Orthorhombic Phase in the Pb(Zn 1/3 Nb 2/3)O 3 -PbTiO 3 System		5

List of Publications

3	Controlled Shape Synthesis of BaTiO3-(Mn0.5Zn0.5)Fe2O4 Nanocomposites. *Ceramic Transactions*,295-300	0.1
2	Metal-Encapsulation of Ferromagnetic Nanoparticles. *Ceramic Transactions*,125-134	0.1
1	Polarization Dynamics Over Broad Time and Field Domains in Modified Ferroelectrics. *Ceramic Transactions*,59-66	0.1