Dwight Viehland

List of Publications by Citations

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	Epitaxial BiFeO3 multiferroic thin film heterostructures. *Science*, **2003**, 299, 1719-22	33.3	4944
451	Multiferroic BaTiO3-CoFe2O4 Nanostructures. *Science*, **2004**, 303, 661-3	33.3	1872
450	Freezing of the polarization fluctuations in lead magnesium niobate relaxors. *Journal of Applied Physics*, **1990**, 68, 2916-2921	2.5	1108
449	Dramatically enhanced polarization in (001), (101), and (111) BiFeO3 thin films due to epitiaxial-induced transitions. *Applied Physics Letters*, **2004**, 84, 5261-5263	3.4	513
448	Deviation from Curie-Weiss behavior in relaxor ferroelectrics. *Physical Review B*, **1992**, 46, 8003-8006	3.3	474
447	Magnetic-field-induced phase transition in BiFeO3 observed by high-field electron spin resonance: Cycloidal to homogeneous spin order. *Physical Review B*, **2004**, 69,	3.3	344
446	Magnetoelectric Laminate Composites: An Overview. *Journal of the American Ceramic Society*, **2008**, 91, 351-358	3.8	339
445	Destruction of spin cycloid in (111)c-oriented BiFeO3 thin films by epitiaxial constraint: Enhanced polarization and release of latent magnetization. *Applied Physics Letters*, **2005**, 86, 032511	3.4	327
444	The glassy behavior of relaxor ferroelectrics. *Ferroelectrics*, **1991**, 120, 71-77	0.6	313
443	Near-ideal magnetoelectricity in high-permeability magnetostrictive/piezofiber laminates with a (2-1) connectivity. *Applied Physics Letters*, **2006**, 89, 252904	3.4	312
442	Detection of pico-Tesla magnetic fields using magneto-electric sensors at room temperature. *Applied Physics Letters*, **2006**, 88, 062510	3.4	293
441	Enhanced magnetoelectric effects in laminate composites of Terfenol-D/Pb(Zr,Ti)O3 under resonant drive. *Applied Physics Letters*, **2003**, 83, 4812-4814	3.4	291
440	An extremely low equivalent magnetic noise magnetoelectric sensor. *Advanced Materials*, **2011**, 23, 4111-4	19.4	272
439	Conformal miniaturization of domains with low domain-wall energy: monoclinic ferroelectric states near the morphotropic phase boundaries. *Physical Review Letters*, **2003**, 91, 197601	7.4	250
438	Ultrahigh magnetic field sensitivity in laminates of TERFENOL-D and Pb(Mg1/3Nb2/3)O3PbTiO3 crystals. *Applied Physics Letters*, **2003**, 83, 2265-2267	3.4	249
437	Magnetoelectrics for magnetic sensor applications: status, challenges and perspectives. *Materials Today*, **2014**, 17, 269-275	21.8	221
436	Phase transitional behavior and piezoelectric properties of the orthorhombic phase of Pb(Mg1/3Nb2/3)O3PbTiO3 single crystals. *Applied Physics Letters*, **2001**, 78, 3109-3111	3.4	221

435	Giant magnetoelectric effect in Metglas/polyvinylidene-fluoride laminates. *Applied Physics Letters*, **2006**, 89, 083507	3.4	208
434	Dipolar-glass model for lead magnesium niobate. *Physical Review B*, **1991**, 43, 8316-8320	3.3	206
433	Dielectric properties of tetragonal lanthanum modified lead zirconate titanate ceramics. *Journal of Applied Physics*, **1993**, 74, 3399-3405	2.5	204
432	Adaptive ferroelectric states in systems with low domain wall energy: Tetragonal microdomains. *Journal of Applied Physics*, **2003**, 94, 3629-3640	2.5	198
431	The spontaneous relaxor to normal ferroelectric transformation in La-modified lead zirconate titanate. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1994**, 70, 33-48		185
430	Glassy polarization behavior of relaxor ferroelectrics. *Physical Review B*, **1992**, 46, 8013-8017	3.3	182
429	Push-pull mode magnetostrictive/piezoelectric laminate composite with an enhanced magnetoelectric voltage coefficient. *Applied Physics Letters*, **2005**, 87, 062502	3.4	179
428	Dielectric properties of (PMN)(1□)(PT)x single crystals for various electrical and thermal histories. *Journal of Applied Physics*, **1998**, 83, 3298-3304	2.5	173
427	Recent advancements in magnetoelectric particulate and laminate composites. *Journal of Electroceramics*, **2007**, 19, 149-166	1.5	173
426	X-ray and neutron diffraction investigations of the structural phase transformation sequence under electric field in 0.7Pb(Mg1□3Nb2□3)-0.3PbTiO3 crystal. *Journal of Applied Physics*, **2004**, 96, 1620-1627	2.5	173
425	Symmetry-adaptive ferroelectric mesostates in oriented Pb(BI1/3BII2/3)O3□PbTiO3 crystals. *Journal of Applied Physics*, **2000**, 88, 4794	2.5	167
424	Phase transitions in multiferroic BiFeO3 crystals, thin-layers, and ceramics: enduring potential for a single phase, room-temperature magnetoelectric □holy grail□ *Phase Transitions*, **2006**, 79, 1019-1042	1.3	163
423	Random-field model for ferroelectric domain dynamics and polarization reversal. *Journal of Applied Physics*, **2000**, 88, 6696-6707	2.5	162
422	Multiferroic properties of modified BiFeO3□PbTiO3-based ceramics: Random-field induced release of latent magnetization and polarization. *Physical Review B*, **2005**, 72,	3.3	153
421	A strong magnetoelectric voltage gain effect in magnetostrictive-piezoelectric composite. *Applied Physics Letters*, **2004**, 85, 3534-3536	3.4	143
420	Multimodal system for harvesting magnetic and mechanical energy. *Applied Physics Letters*, **2008**, 93, 103511	3.4	130
419	Characterization of magnetoelectric laminate composites operated in longitudinal-transverse and transverse□ransverse modes. *Journal of Applied Physics*, **2004**, 95, 2625-2630	2.5	130
418	The dielectric relaxation of lead magnesium niobate relaxor ferroelectrics. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1991**, 64, 335-344		130

417	Enhanced piezoelectric and ferroelectric properties in Mn-doped Na0.5Bi0.5TiO3BaTiO3 single crystals. *Applied Physics Letters*, **2009**, 95, 102904	3.4	128
416	Small dc magnetic field response of magnetoelectric laminate composites. *Applied Physics Letters*, **2006**, 88, 082907	3.4	128
415	Piezoelectricity in tungsten bronze crystals. *Ferroelectrics*, **1994**, 160, 265-276	0.6	128
414	Low symmetry phase in (001) BiFeO3 epitaxial constrained thin films. *Applied Physics Letters*, **2005**, 86, 182905	3.4	126
413	Vortex magnetic field sensor based on ring-type magnetoelectric laminate. *Applied Physics Letters*, **2004**, 85, 2307-2309	3.4	119
412	Structurally Heterogeneous Model of Extrinsic Magnetostriction for Fe-Ga and Similar Magnetic Alloys: Part I. Decomposition and Confined Displacive Transformation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2007**, 38, 2308-2316	2.3	114
411	Transmission electron microscopy study of high-Zr-content lead zirconate titanate. *Physical Review B*, **1995**, 52, 778-791	3.3	114
410	Determination of the ordered structures of Pb(Mg1/3Nb2/3)O3 and Ba(Mg1/3Nb2/3)O3 by atomic-resolution Z-contrast imaging. *Applied Physics Letters*, **1998**, 72, 3145-3147	3.4	109
409	Antiferroelectric-ferroelectric switching and induced strains for sol-gel derived lead zirconate thin layers. *Journal of Applied Physics*, **1994**, 75, 3017-3023	2.5	108
408	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO3. *Applied Physics Letters*, **2008**, 92, 022511	3.4	107
407	Evidence of decoupled lattice distortion and ferroelectric polarization in the relaxor system PMNPT. *Physical Review B*, **2003**, 68,	3.3	107
406	Domain hierarchy in annealed (001)-oriented Pb(Mg1Nb2)O3-x%PbTiO3 single crystals. *Applied Physics Letters*, **2004**, 85, 2313-2315	3.4	104
405	Long-time present tweedlike precursors and paraelectric clusters in ferroelectrics containing strong quenched randomness. *Applied Physics Letters*, **1995**, 67, 2471-2473	3.4	103
404	Normal to relaxor ferroelectric transformations in lanthanum-modified tetragonal-structured lead zirconate titanate ceramics. *Journal of Applied Physics*, **1996**, 79, 1021	2.5	97
403	A longitudinal-longitudinal mode TERFENOL-DPb(Mg1Nb2)O3PbTiO3 laminate composite. *Applied Physics Letters*, **2004**, 85, 5305-5306	3.4	96
402	Mesostructure of Calcium Silicate Hydrate (C-S-H) Gels in Portland Cement Paste: Short-Range Ordering, Nanocrystallinity, and Local Compositional Order. *Journal of the American Ceramic Society* , **1996**, 79, 1731-1744	3.8	95
401	Review of magnetoelectric perovskitespinel self-assembled nano-composite thin films. *Journal of Materials Science*, **2009**, 44, 5080-5094	4.3	93
400	Effects of quenched disorder on La-modified lead zirconate titanate: Long- and short-range ordered structurally incommensurate phases, and glassy polar clusters. *Journal of Applied Physics*, **1998**, 84, 458-471	2.5	93

399	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
398	Giant magnetoelectric effect in self-biased laminates under zero magnetic field. *Applied Physics Letters*, **2013**, 102, 082404	3.4	88
397	Role of nanoscale precipitates on the enhanced magnetostriction of heat-treated galfenol (Fe1-xGax) alloys. *Physical Review Letters*, **2009**, 102, 127201	7.4	88
396	Anhysteretic field-induced rhombhohedral to orthorhombic transformation in <110>-oriented 0.7Pb(Mg1/3Nb2/3)O3□.3PbTiO3 crystals. *Journal of Applied Physics*, **2002**, 92, 7690-7692	2.5	88
395	Local polar configurations in lead magnesium niobate relaxors. *Journal of Applied Physics*, **1991**, 69, 414-419	2.5	86
394	Extremely low frequency response of magnetoelectric multilayer composites. *Applied Physics Letters*, **2005**, 86, 102901	3.4	85
393	Piezoelectric instability in <011>-oriented Pb(B1/3IB2/3II)O3□PbTiO3 crystals. *Applied Physics Letters*, **2001**, 79, 1006-1008	3.4	85
392	Effect of Oxygen Octahedron Rotations on the Phase Stability, Transformational Characteristics, and Polarization Behavior in the Lead Zirconate Titanate Crystalline Solution Series. *Journal of the American Ceramic Society*, **1995**, 78, 2815-2827	3.8	84
391	Enhancement in the field sensitivity of magnetoelectric laminate heterostructures. *Applied Physics Letters*, **2009**, 95, 092501	3.4	82
390	Circumferential-mode, quasi-ring-type, magnetoelectric laminate composite□ highly sensitive electric current and□r vortex magnetic field sensor. *Applied Physics Letters*, **2005**, 86, 182506	3.4	82
389	Polarization switching mechanisms and electromechanical properties of La-modified lead zirconate titanate ceramics. *Journal of Materials Research*, **1995**, 10, 926-938	2.5	82
388	Direct measurement of magnetoelectric exchange in self-assembled epitaxial BiFeO3□CoFe2O4 nanocomposite thin films. *Applied Physics Letters*, **2009**, 94, 192902	3.4	81
387	Effect of uniaxial stress on the electromechanical properties of 0.7Pb(Mg1/3Nb2/3)O3□.3PbTiO3 crystals and ceramics. *Journal of Applied Physics*, **2001**, 89, 1820	2.5	79
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385	Incommensurately Modulated Polar Structures in Antiferroelectric Sn-Modified Lead Zirconate Titanate: The Modulated Structure and Its Influences on Electrically Induced Polarizations and Strains. *Journal of the American Ceramic Society*, **1995**, 78, 2101-2112	3.8	79
384	Giant magnetoelectric effect (under a dc magnetic bias of 2Oe) in laminate composites of FeBSiC alloy ribbons and Pb(Zn1□,Nb2□)O3□%PbTiO3 fibers. *Applied Physics Letters*, **2007**, 91, 022915	3.4	78
383	Magnetoelectric gyration effect in Tb1□DyxFe2□□Pb(Zr,Ti)O3 laminated composites at the electromechanical resonance. *Applied Physics Letters*, **2006**, 89, 243512	3.4	78
382	Magnetoelectric quasi-(0-3) nanocomposite heterostructures. *Nature Communications*, **2015**, 6, 6680	17.4	77

381	Magnetoelectric coupling, efficiency, and voltage gain effect in piezoelectric-piezomagnetic laminate composites. *Journal of Materials Science*, **2006**, 41, 97-106	4.3	76
380	Geomagnetic sensor based on giant magnetoelectric effect. *Applied Physics Letters*, **2007**, 91, 123513	3.4	74
379	Voltage gain effect in a ring-type magnetoelectric laminate. *Applied Physics Letters*, **2004**, 84, 4188-4190	3.4	74
378	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
377	Nanodispersed DO3-phase nanostructures observed in magnetostrictive Fe□19% Ga Galfenol alloys. *Physical Review B*, **2008**, 77,	3.3	73
376	Anisotropic glasslike characteristics of strontium barium niobate relaxors. *Journal of Applied Physics* , **1994**, 76, 490-496	2.5	73
375	Effects of lanthanum modification on rhombohedral Pb(Zr1□Tix)O3 ceramics: Part I. Transformation from normal to relaxor ferroelectric behaviors. *Journal of Materials Research*, **1996**, 11, 618-625	2.5	72
374	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
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372	Impurity-induced incommensuration in antiferroelectric La-modified lead zirconate titanate. *Physical Review B*, **1995**, 51, 6261-6271	3.3	68
371	Engineered magnetic shape anisotropy in BiFeO3-CoFe2O4 self-assembled thin films. *ACS Nano*, **2013**, 7, 3447-56	16.7	66
370	Magnetostrictive and magnetoelectric behavior of Fe□0at.% Ga□Pb(Zr,Ti)O3 laminates. *Journal of Applied Physics*, **2005**, 97, 103902	2.5	65
369	Resonant bending mode of Terfenol-D□teel□Pb(Zr,Ti)O3 magnetoelectric laminate composites. *Applied Physics Letters*, **2006**, 89, 112911	3.4	65
368	Circumferentially magnetized and circumferentially polarized magnetostrictive/piezoelectric laminated rings. *Journal of Applied Physics*, **2004**, 96, 3382-3387	2.5	64
367	Weak ferroelectricity in antiferroelectric lead zirconate. *Physical Review B*, **1995**, 51, 2651-2655	3.3	64
366	Domain engineered states over various length scales in (001)-oriented Pb(Mg1□Nb2□)O3-x%PbTiO3 crystals: Electrical history dependence of hierarchal domains. *Journal of Applied Physics*, **2005**, 97, 054103	2.5	63
365	Electromechanical coupling coefficient of <001>-oriented Pb(Mg1/3Nb2/3)O3□PbTiO3 cystals: Stress and temperature independence. *Applied Physics Letters*, **2001**, 78, 3112-3114	3.4	63
364	Eu and Yb Substituent Effects on the Properties of Pb(Zr0.52Ti0.48)O3□Pb(Mn1/3Sb2/3)O3Ceramics: Development of a New High-Power Piezoelectric with Enhanced Vibrational Velocity. *Japanese Journal of Applied Physics*, **2001**, 40, 687-693	1.4	63

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359	Damped soft phonons and diffuse scattering in 40%Pb(Mg1□3Nb2□3)O3□60%PbTiO3. *Physical Review B*, **2006**, 73,	3.3	61
358	Fe□Ga□Pb(Mg1□3Nb2□3)O3□PbTiO3 magnetoelectric laminate composites. *Applied Physics Letters*, **2005**, 87, 222504	3.4	61
357	Structural Studies of Ordering in the (Pb1-xBax)(Mg1/3Nb2/3)O3 Crystalline Solution Series. *Journal of the American Ceramic Society*, **1995**, 78, 2481-2489	3.8	61
356	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
355	Magnetoelectric and multiferroic properties of variously oriented epitaxial BiFeO3□CoFe2O4 nanostructured thin films. *Journal of Applied Physics*, **2010**, 107, 064106	2.5	60
354	Observation of a sequence of domain-like states with increasing disorder in ferroelectrics. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1996**, 74, 395-406		60
353	A quasi(unidirectional) Tellegen gyrator. *Journal of Applied Physics*, **2006**, 100, 124509	2.5	58
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349	Hot-stage transmission electron microscopy studies of phase transformations in tin-modified lead zirconate titanate. *Journal of Applied Physics*, **1993**, 74, 3406-3413	2.5	57
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347	Magnetoelectric interactions in ferromagnetic-piezoelectric layered structures: Phenomena and devices. *Journal of Electroceramics*, **2007**, 19, 243-250	1.5	56
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344	Coexistence of Relaxor and Normal Ferroelectric Phases in Morphotropic Phase Boundary Compositions of Lanthanum-Modified Lead Zirconate Titanate. *Journal of the American Ceramic Society*, **2005**, 81, 557-564	3.8	54
343	Direct Imaging of Atomic Ordering in Undoped and La-Doped Pb(Mg1/3Nb2/3)O3. *Journal of the American Ceramic Society*, **2000**, 83, 181-88	3.8	54
342	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
341	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
340	Interplay between static and dynamic polar correlations in relaxor Pb(Mg1/3Nb2/3)O3. *Physical Review B*, **2010**, 81,	3.3	53
339	Structural and property studies of high Zr-content lead zirconate titanate. *Journal of Physics and Chemistry of Solids*, **1996**, 57, 1545-1554	3.9	52
338	Internal strain relaxation and the glassy behavior of La-modified lead zirconate titanate relaxors. *Journal of Applied Physics*, **1991**, 69, 6595-6602	2.5	52
337	Hierarchical domains in Na1/2Bi1/2TiO3 single crystals: Ferroelectric phase transformations within the geometrical restrictions of a ferroelastic inheritance. *Applied Physics Letters*, **2010**, 96, 222905	3.4	51
336	A Raman scattering study of the ferroelectric ordering in rhombohedral and tetragonal La-modified lead zirconate titanate ceramics. *Journal of Applied Physics*, **1996**, 80, 1079-1084	2.5	51
335	Kinetics of polarization reversal in 0.7Pb(Mg1/3Nb2/3)O3–0.3PbTiO3: Heterogeneous nucleation in the vicinity of quenched random fields. *Journal of Applied Physics*, **2001**, 90, 2995-3003	2.5	51
334	Mn-Modified Pb(Mg1/3Nb2/3)O3–PbTiO3Ceramics: Improved Mechanical Quality Factors for High-Power Transducer Applications. *Japanese Journal of Applied Physics*, **2000**, 39, 4843-4852	1.4	51
333	Compositional heterogeneity and the origins of the multicell cubic state in Sn-doped lead zirconate titanate ceramics. *Journal of Applied Physics*, **1994**, 75, 4137-4143	2.5	51
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330	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
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322	Magnetoelectric assisted 180° magnetization switching for electric field addressable writing in magnetoresistive random-access memory. *ACS Nano*, **2014**, 8, 7793-800	16.7	46
321	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
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317	Soft phonon columns on the edge of the Brillouin zone in the relaxor PbMg1/3Nb2/3O3. *Physical Review B*, **2009**, 79,	3.3	43
316	Origin of magnetic and magnetoelastic tweedlike precursor modulations in ferroic materials. *Physical Review Letters*, **2004**, 92, 197203	7.4	43
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314	Ferroelectric and glassy states in La-modified lead zirconate titanate ceramics: A general picture. *Journal of Applied Physics*, **1998**, 83, 5371-5380	2.5	43
313	Coexistence of incommensurate antiferroelectric and relaxorlike ferroelectric orderings in high Zr-content La-modified lead zirconate titanate ceramics. *Applied Physics Letters*, **1996**, 68, 1628-1630	3.4	43
312	Ground state monoclinic (Mb) phase in (110)c BiFeO3 epitaxial thin films. *Applied Physics Letters*, **2006**, 89, 222901	3.4	42
311	Effects of lanthanum modification on the antiferroelectric-ferroelectric stability of high zirconium-content lead zirconate titanate. *Journal of Applied Physics*, **1994**, 76, 3701-3709	2.5	42
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309	Observation of a Mesostructure in Calcium Silicate Hydrate Gels of Portland Cement. *Physical Review Letters*, **1996**, 77, 952-955	7.4	41
308	Magnetoelectric magnetic field sensors. *MRS Bulletin*, **2018**, 43, 834-840	3.2	41
307	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
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List of Publications

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2	Metal-Encapsulation of Ferromagnetic Nanoparticles. *Ceramic Transactions*,125-134	0.1
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