

# Dwight Viehland

## List of Publications by Year in descending order

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454  
papers

31,101  
citations

7087

78  
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5677

162  
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460  
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460  
docs citations

460  
times ranked

12906  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial BiFeO <sub>3</sub> Multiferroic Thin Film Heterostructures. <i>Science</i> , 2003, 299, 1719-1722.	6.0	5,548
2	Multiferroic BaTiO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> Nanostructures. <i>Science</i> , 2004, 303, 661-663.	6.0	2,051
3	Freezing of the polarization fluctuations in lead magnesium niobate relaxors. <i>Journal of Applied Physics</i> , 1990, 68, 2916-2921.	1.1	1,231
4	Dramatically enhanced polarization in (001), (101), and (111) BiFeO <sub>3</sub> thin films due to epitaxial-induced transitions. <i>Applied Physics Letters</i> , 2004, 84, 5261-5263.	1.5	558
5	Deviation from Curie-Weiss behavior in relaxor ferroelectrics. <i>Physical Review B</i> , 1992, 46, 8003-8006.	1.1	512
6	Magnetolectric Laminate Composites: An Overview. <i>Journal of the American Ceramic Society</i> , 2008, 91, 351-358.	1.9	397
7	Magnetic-field-induced phase transition in BiFeO <sub>3</sub> observed by high-field electron spin resonance: Cycloidal to homogeneous spin order. <i>Physical Review B</i> , 2004, 69, .	1.1	378
8	Destruction of spin cycloid in (111) <sub>c</sub> -oriented BiFeO <sub>3</sub> thin films by epitaxial constraint: Enhanced polarization and release of latent magnetization. <i>Applied Physics Letters</i> , 2005, 86, 032511.	1.5	358
9	The glassy behavior of relaxor ferroelectrics. <i>Ferroelectrics</i> , 1991, 120, 71-77.	0.3	344
10	Near-ideal magnetoelectricity in high-permeability magnetostrictive/piezofiber laminates with a (2-1) connectivity. <i>Applied Physics Letters</i> , 2006, 89, 252904.	1.5	342
11	Detection of pico-Tesla magnetic fields using magneto-electric sensors at room temperature. <i>Applied Physics Letters</i> , 2006, 88, 062510.	1.5	332
12	An Extremely Low Equivalent Magnetic Noise Magnetolectric Sensor. <i>Advanced Materials</i> , 2011, 23, 4111-4114.	11.1	323
13	Enhanced magnetoelectric effects in laminate composites of Terfenol-D/Pb(Zr,Ti)O <sub>3</sub> under resonant drive. <i>Applied Physics Letters</i> , 2003, 83, 4812-4814.	1.5	319
14	Magnetolectrics for magnetic sensor applications: status, challenges and perspectives. <i>Materials Today</i> , 2014, 17, 269-275.	8.3	282
15	Ultrahigh magnetic field sensitivity in laminates of TERFENOL-D and Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ∕PbTiO <sub>3</sub> crystals. <i>Applied Physics Letters</i> , 2003, 83, 2265-2267.	1.5	279
16	Conformal Miniaturization of Domains with Low Domain-Wall Energy: Monoclinic Ferroelectric States near the Morphotropic Phase Boundaries. <i>Physical Review Letters</i> , 2003, 91, 197601.	2.9	276
17	Phase transitional behavior and piezoelectric properties of the orthorhombic phase of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ∕PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , 2001, 78, 3109-3111.	1.5	239
18	Giant magnetoelectric effect in Metglas/polyvinylidene-fluoride laminates. <i>Applied Physics Letters</i> , 2006, 89, 083507.	1.5	233

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19	Dipolar-glass model for lead magnesium niobate. <i>Physical Review B</i> , 1991, 43, 8316-8320.	1.1	226
20	Adaptive ferroelectric states in systems with low domain wall energy: Tetragonal microdomains. <i>Journal of Applied Physics</i> , 2003, 94, 3629-3640.	1.1	220
21	Dielectric properties of tetragonal lanthanum modified lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 1993, 74, 3399-3405.	1.1	216
22	Recent advancements in magnetoelectric particulate and laminate composites. <i>Journal of Electroceramics</i> , 2007, 19, 149-166.	0.8	206
23	Glassy polarization behavior of relaxor ferroelectrics. <i>Physical Review B</i> , 1992, 46, 8013-8017.	1.1	204
24	Push-pull mode magnetostrictive/piezoelectric laminate composite with an enhanced magnetoelectric voltage coefficient. <i>Applied Physics Letters</i> , 2005, 87, 062502.	1.5	195
25	Phase transitions in multiferroic BiFeO <sub>3</sub> crystals, thin-layers, and ceramics: enduring potential for a single phase, room-temperature magnetoelectric "holy grail". <i>Phase Transitions</i> , 2006, 79, 1019-1042.	0.6	194
26	The spontaneous relaxor to normal ferroelectric transformation in La-modified lead zirconate titanate. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 70, 33-48.	0.6	191
27	Dielectric properties of (PMN)(1-x)(PT)x single crystals for various electrical and thermal histories. <i>Journal of Applied Physics</i> , 1998, 83, 3298-3304.	1.1	191
28	X-ray and neutron diffraction investigations of the structural phase transformation sequence under electric field in 0.7Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )-0.3PbTiO <sub>3</sub> crystal. <i>Journal of Applied Physics</i> , 2004, 96, 1620-1627.	1.1	189
29	Random-field model for ferroelectric domain dynamics and polarization reversal. <i>Journal of Applied Physics</i> , 2000, 88, 6696-6707.	1.1	183
30	Symmetry-adaptive ferroelectric mesostates in oriented Pb(Bi <sub>1/3</sub> Bi <sub>2/3</sub> )O <sub>3</sub> "PbTiO <sub>3</sub> " crystals. <i>Journal of Applied Physics</i> , 2000, 88, 4794.	1.1	176
31	A strong magnetoelectric voltage gain effect in magnetostrictive-piezoelectric composite. <i>Applied Physics Letters</i> , 2004, 85, 3534-3536.	1.5	165
32	Multiferroic properties of modified BiFeO <sub>3</sub> -PbTiO <sub>3</sub> -based ceramics: Random-field induced release of latent magnetization and polarization. <i>Physical Review B</i> , 2005, 72, .	1.1	164
33	Multimodal system for harvesting magnetic and mechanical energy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	161
34	Characterization of magnetoelectric laminate composites operated in longitudinal-transverse and transverse-transverse modes. <i>Journal of Applied Physics</i> , 2004, 95, 2625-2630.	1.1	152
35	Small dc magnetic field response of magnetoelectric laminate composites. <i>Applied Physics Letters</i> , 2006, 88, 082907.	1.5	147
36	A review on applications of magnetoelectric composites: from heterostructural uncooled magnetic sensors, energy harvesters to highly efficient power converters. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 263002.	1.3	146

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37	Piezoelectricity in tungsten bronze crystals. <i>Ferroelectrics</i> , 1994, 160, 265-276.	0.3	139
38	Low symmetry phase in (001) BiFeO <sub>3</sub> epitaxial constrained thin films. <i>Applied Physics Letters</i> , 2005, 86, 182905.	1.5	139
39	Enhanced piezoelectric and ferroelectric properties in Mn-doped Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> –BaTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	136
40	The dielectric relaxation of lead magnesium niobate relaxor ferroelectrics. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1991, 64, 335-344.	0.6	134
41	Vortex magnetic field sensor based on ring-type magnetoelectric laminate. <i>Applied Physics Letters</i> , 2004, 85, 2307-2309.	1.5	134
42	Transmission electron microscopy study of high-Zr-content lead zirconate titanate. <i>Physical Review B</i> , 1995, 52, 778-791.	1.1	133
43	Structurally Heterogeneous Model of Extrinsic Magnetostriction for Fe-Ga and Similar Magnetic Alloys: Part I. Decomposition and Confined Displacive Transformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 2308-2316.	1.1	126
44	Determination of the ordered structures of Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> and Ba(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> by atomic-resolution Z-contrast imaging. <i>Applied Physics Letters</i> , 1998, 72, 3145-3147.	1.5	119
45	Antiferroelectric–ferroelectric switching and induced strains for sol–gel derived lead zirconate thin layers. <i>Journal of Applied Physics</i> , 1994, 75, 3017-3023.	1.1	118
46	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO <sub>3</sub> . <i>Applied Physics Letters</i> , 2008, 92, .	1.5	116
47	Domain hierarchy in annealed (001)-oriented Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -x%PbTiO <sub>3</sub> single crystals. <i>Applied Physics Letters</i> , 2004, 85, 2313-2315.	1.5	115
48	Evidence of decoupled lattice distortion and ferroelectric polarization in the relaxor system PMN <sub>1-x</sub> PT. <i>Physical Review B</i> , 2003, 68, .	1.1	112
49	Long-time present tweedlike precursors and paraelectric clusters in ferroelectrics containing strong quenched randomness. <i>Applied Physics Letters</i> , 1995, 67, 2471-2473.	1.5	111
50	Mesostructure of Calcium Silicate Hydrate (C-S-H) Gels in Portland Cement Paste: Short-Range Ordering, Nanocrystallinity, and Local Compositional Order. <i>Journal of the American Ceramic Society</i> , 1996, 79, 1731-1744.	1.9	108
51	Normal to relaxor ferroelectric transformations in lanthanum-modified tetragonal-structured lead zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 1996, 79, 1021.	1.1	103
52	A longitudinal-longitudinal mode TERFENOL–D <sub>3</sub> –Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –PbTiO <sub>3</sub> laminate composite. <i>Applied Physics Letters</i> , 2004, 85, 5305-5306.	1.5	102
53	Giant magnetoelectric effect in self-biased laminates under zero magnetic field. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	102
54	Effects of quenched disorder on La-modified lead zirconate titanate: Long- and short-range ordered structurally incommensurate phases, and glassy polar clusters. <i>Journal of Applied Physics</i> , 1998, 84, 458-471.	1.1	101

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55	Extremely low frequency response of magnetoelectric multilayer composites. Applied Physics Letters, 2005, 86, 102901.	1.5	101
56	Role of Nanoscale Precipitates on the Enhanced Magnetostriction of Heat-Treated Galfenol ( $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 702 Td (display="inline"} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \text{Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 702 Td (display="inline"} \rangle$ ) Alloys. Physical Review Letters, 2009, 102, 127201.	2.9	101
57	Role of lower valent substituent-oxygen vacancy complexes in polarization pinning in potassium-modified lead zirconate titanate. Applied Physics Letters, 1999, 75, 418-420.	1.5	98
58	Anhysteretic field-induced rhombohedral to orthorhombic transformation in $\tilde{a}^{\sim}110\tilde{a}^{\circ}$ -oriented $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\tilde{a}^{\sim}0.3\text{PbTiO}_3$ crystals. Journal of Applied Physics, 2002, 92, 7690-7692.	1.1	97
59	Review of magnetoelectric perovskite $\tilde{a}^{\sim}$ spinel self-assembled nano-composite thin films. Journal of Materials Science, 2009, 44, 5080-5094.	1.7	97
60	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.	1.9	95
61	Local polar configurations in lead magnesium niobate relaxors. Journal of Applied Physics, 1991, 69, 414-419.	1.1	93
62	Piezoelectric instability in $\tilde{a}^{\sim}011\tilde{a}^{\circ}$ -oriented $\text{Pb}(\text{B}_{1/3}\text{B}_{2/3})\text{O}_3\tilde{a}^{\sim}\text{PbTiO}_3$ crystals. Applied Physics Letters, 2001, 79, 1006-1008.	1.5	93
63	Giant strain with ultra-low hysteresis and high temperature stability in grain oriented lead-free $\text{K}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-BaTiO}_3\text{-Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ piezoelectric materials. Scientific Reports, 2015, 5, 8595.	1.6	92
64	Polarization switching mechanisms and electromechanical properties of La-modified lead zirconate titanate ceramics. Journal of Materials Research, 1995, 10, 926-938.	1.2	91
65	Enhancement in the field sensitivity of magnetoelectric laminate heterostructures. Applied Physics Letters, 2009, 95, .	1.5	90
66	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.	1.9	89
67	Magnetoelectric quasi-(0-3) nanocomposite heterostructures. Nature Communications, 2015, 6, 6680.	5.8	89
68	Circumferential-mode, quasi-ring-type, magnetoelectric laminate composite $\tilde{a}^{\sim}$ a highly sensitive electric current and $\tilde{a}^{\sim}$ or vortex magnetic field sensor. Applied Physics Letters, 2005, 86, 182506.	1.5	88
69	Raman spectroscopic study of $\text{Na}_{1/2}\text{Bi}_{1/2}\text{TiO}_3\text{-x}\% \text{BaTiO}_3$ single crystals as a function of temperature and composition. Journal of Applied Physics, 2011, 109, .	1.1	87
70	Direct measurement of magnetoelectric exchange in self-assembled epitaxial $\text{BiFeO}_3\tilde{a}^{\sim}\text{CoFe}_2\text{O}_4$ nanocomposite thin films. Applied Physics Letters, 2009, 94, .	1.5	86
71	Effect of uniaxial stress on the electromechanical properties of $0.7\text{Pb}(\text{Mg}_{\text{sub } 1/3}\text{Nb}_{\text{sub } 2/3})\text{O}_{\text{sub } 3}\tilde{a}^{\sim}0.3\text{PbTiO}_{\text{sub } 3}$ crystals and ceramics. Journal of Applied Physics, 2001, 89, 1820.	1.1	85
72	Magnetoelectric gyration effect in $\text{Tb}_{1\tilde{a}^{\sim}}\text{xDyxFe}_2\tilde{a}^{\sim}\text{y}\tilde{a}^{\sim}\text{Pb}(\text{Zr,Ti})\text{O}_3$ laminated composites at the electromechanical resonance. Applied Physics Letters, 2006, 89, 243512.	1.5	84

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73	Magnetolectric coupling, efficiency, and voltage gain effect in piezoelectric-piezomagnetic laminate composites. <i>Journal of Materials Science</i> , 2006, 41, 97-106.	1.7	84
74	Giant magnetolectric effect (under a dc magnetic bias of 2Oe) in laminate composites of FeBSiC alloy ribbons and $\text{Pb}(\text{Zn}_{1-x}\text{Nb}_2\text{O}_3\text{-}7\%\text{PbTiO}_3)$ fibers. <i>Applied Physics Letters</i> , 2007, 91, 022915.	1.5	84
75	Geomagnetic sensor based on giant magnetolectric effect. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	83
76	Large Piezoelectricity in Ternary Lead-Free Single Crystals. <i>Advanced Electronic Materials</i> , 2020, 6, 1900949.	2.6	83
77	Voltage gain effect in a ring-type magnetolectric laminate. <i>Applied Physics Letters</i> , 2004, 84, 4188-4190.	1.5	82
78	Nanodispersed $\text{D}_3\text{O}$ -phase nanostructures observed in magnetostrictive $\text{Fe}_{19}\text{Ga}$ Galfenol alloys. <i>Physical Review B</i> , 2008, 77, .	1.1	82
79	Anisotropic glasslike characteristics of strontium barium niobate relaxors. <i>Journal of Applied Physics</i> , 1994, 76, 490-496.	1.1	78
80	Weak ferroelectricity in antiferroelectric lead zirconate. <i>Physical Review B</i> , 1995, 51, 2651-2655.	1.1	78
81	Impurity-induced incommensuration in antiferroelectric La-modified lead zirconate titanate. <i>Physical Review B</i> , 1995, 51, 6261-6271.	1.1	76
82	Effects of lanthanum modification on rhombohedral $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)_3\text{O}$ ceramics: Part I. Transformation from normal to relaxor ferroelectric behaviors. <i>Journal of Materials Research</i> , 1996, 11, 618-625.	1.2	75
83	Eu and Yb Substituent Effects on the Properties of $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})_3\text{O}$ - $\text{Pb}(\text{Mn}_{1/3}\text{Sb}_{2/3})_3\text{O}$ Ceramics: Development of a New High-Power Piezoelectric with Enhanced Vibrational Velocity. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 687-693.	0.8	75
84	Magnetostrictive and magnetolectric behavior of $\text{Fe}_{20}\text{at.}\%\text{Ga-Pb}(\text{Zr,Ti})_3\text{O}$ laminates. <i>Journal of Applied Physics</i> , 2005, 97, 103902.	1.1	74
85	High-power resonant measurements of piezoelectric materials: Importance of elastic nonlinearities. <i>Journal of Applied Physics</i> , 2001, 90, 1469-1479.	1.1	73
86	Resonant bending mode of Terfenol-D-steel-Pb(Zr,Ti)O <sub>3</sub> magnetolectric laminate composites. <i>Applied Physics Letters</i> , 2006, 89, 112911.	1.5	73
87	$\text{Fe}_{19}\text{Ga-Pb}(\text{Mg}_{1-x}\text{Nb}_2\text{O}_3\text{-}7\%\text{PbTiO}_3)$ magnetolectric laminate composites. <i>Applied Physics Letters</i> , 2005, 87, 222504.	1.5	72
88	Ferroelectric behaviours dominated by mobile and randomly quenched impurities in modified lead zirconatetitanate ceramics. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997, 76, 59-74.	0.6	71
89	Circumferentially magnetized and circumferentially polarized magnetostrictive/piezoelectric laminated rings. <i>Journal of Applied Physics</i> , 2004, 96, 3382-3387.	1.1	70
90	Structurally Heterogeneous Model of Extrinsic Magnetostriction for Fe-Ga and Similar Magnetic Alloys: Part II. Giant Magnetostriction and Elastic Softening. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 2317-2328.	1.1	70

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91	Enhanced sensitivity to direct current magnetic field changes in Metglas/Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> laminates. Journal of Applied Physics, 2011, 109, .	1.1	70
92	Engineered Magnetic Shape Anisotropy in BiFeO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> Self-Assembled Thin Films. ACS Nano, 2013, 7, 3447-3456.	7.3	70
93	Simple, high-resolution interferometer for the measurement of frequency-dependent complex piezoelectric responses in ferroelectric ceramics. Review of Scientific Instruments, 1995, 66, 215-221.	0.6	69
94	Magnetolectric interactions in ferromagnetic-piezoelectric layered structures: Phenomena and devices. Journal of Electroceramics, 2007, 19, 243-250.	0.8	69
95	Domain engineered states over various length scales in (001)-oriented Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3-x</sub> PbTiO <sub>3</sub> crystals: Electrical history dependence of hierarchical domains. Journal of Applied Physics, 2005, 97, 054103.	1.1	68
96	Correlation between Phase Transitions and Piezoelectric Properties in Lead-Free (K,Na,Li)NbO <sub>3</sub> -BaTiO <sub>3</sub> Ceramics. Japanese Journal of Applied Physics, 2008, 47, 8880.	0.8	68
97	Structural Studies of Ordering in the (Pb <sub>1-x</sub> Bax)(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> Crystalline Solution Series. Journal of the American Ceramic Society, 1995, 78, 2481-2489.	1.9	67
98	A quasi(unidirectional) Tellegen gyrator. Journal of Applied Physics, 2006, 100, 124509.	1.1	67
99	Magnetolectric effect in Terfenol-D-Pb(Zr,TiO) <sub>3</sub> -metal laminate composites. Applied Physics Letters, 2006, 89, 122903.	1.5	67
100	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.	1.1	66
101	Electromechanical coupling coefficient of $\bar{a}^{001}$ -oriented Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> crystals: Stress and temperature independence. Applied Physics Letters, 2001, 78, 3112-3114.	1.5	66
102	Importance of random fields on the properties and ferroelectric phase stability of $\bar{a}^{001}$ oriented 0.7 Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.3 PbTiO <sub>3</sub> crystals. Applied Physics Letters, 2001, 78, 3508-3510.	1.5	66
103	A Low Frequency Mechanical Transmitter Based on Magnetolectric Heterostructures Operated at Their Resonance Frequency. Sensors, 2019, 19, 853.	2.1	66
104	Giant electric field controlled magnetic anisotropy in epitaxial BiFeO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> thin film heterostructures on single crystal Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> substrate. Applied Physics Letters, 2011, 99, .	1.5	65
105	Hot-stage transmission electron microscopy studies of phase transformations in tin-modified lead zirconate titanate. Journal of Applied Physics, 1993, 74, 3406-3413.	1.1	64
106	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.	0.7	64
107	Damped soft phonons and diffuse scattering in 40%Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -60%PbTiO <sub>3</sub> . Physical Review B, 2006, 73, .	1.1	64
108	ac-field-dependent structure-property relationships in La-modified lead zirconate titanate: Induced relaxor behavior and domain breakdown in soft ferroelectrics. Physical Review B, 1996, 53, 14103-14111.	1.1	62

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109	Improved Sensitivity and Noise in Magneto-Electric Magnetic Field Sensors by Use of Modulated AC Magnetostriction. IEEE Magnetics Letters, 2011, 2, 2500104-2500104. Lead-free and lead-based	0.6	62
110	Coexistence of Relaxor and Normal Ferroelectric Phases in Morphotropic Phase Boundary Compositions of Lanthanum-Modified Lead Zirconate Titanate. Journal of the American Ceramic Society, 1998, 81, 557-564.	1.1	62
111	Giant magnetoelectric effect in Pb(Zr,Ti)O <sub>3</sub> -bimorph/NdFeB laminate device. Applied Physics Letters, 2008, 93, .	1.5	61
113	Magnetolectric and multiferroic properties of variously oriented epitaxial BiFeO <sub>3</sub> -CoFe <sub>2</sub> O <sub>4</sub> nanostructured thin films. Journal of Applied Physics, 2010, 107, .	1.1	61
114	Mn-Modified Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> Ceramics: Improved Mechanical Quality Factors for High-Power Transducer Applications. Japanese Journal of Applied Physics, 2000, 39, 4843-4852.	0.8	60
115	Effect of Uniaxial Stress Upon the Electromechanical Properties of Various Piezoelectric Ceramics and Single Crystals. Journal of the American Ceramic Society, 2006, 89, 775-785.	1.9	60
116	Direct Imaging of Atomic Ordering in Undoped and La-Doped Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> . Journal of the American Ceramic Society, 2000, 83, 181-88.	1.9	58
117	Hierarchical domains in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> single crystals: Ferroelectric phase transformations within the geometrical restrictions of a ferroelastic inheritance. Applied Physics Letters, 2010, 96, .	1.5	58
118	Enhanced Sensitivity and Reduced Noise Floor in Magnetolectric Laminate Sensors by an Improved Lamination Process. Journal of the American Ceramic Society, 2011, 94, 3738-3741.	1.9	58
119	Role of coexisting tetragonal regions in the rhombohedral phase of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -xat.%BaTiO <sub>3</sub> crystals on enhanced piezoelectric properties on approaching the morphotropic phase boundary. Applied Physics Letters, 2012, 100, .	1.5	58
120	Magnetolectric magnetic field sensors. MRS Bulletin, 2018, 43, 834-840.	1.7	57
121	Structural and property studies of high Zr-content lead zirconate titanate. Journal of Physics and Chemistry of Solids, 1996, 57, 1545-1554.	1.9	56
122	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.	1.1	56
123	Kinetics of polarization reversal in 0.7Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -0.3PbTiO <sub>3</sub> : Heterogeneous nucleation in the vicinity of quenched random fields. Journal of Applied Physics, 2001, 90, 2995-3003.	1.1	55
124	Interplay between static and dynamic polar correlations in relaxor Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> . Physical Review B, 2010, 81, .	1.1	55
125	Ultrahigh electromechanical response in (1-x)(Na <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> -xBaTiO <sub>3</sub> single-crystals via polarization extension. Journal of Applied Physics, 2012, 111, .	1.1	55
126	Internal strain relaxation and the glassy behavior of La-modified lead zirconate titanate relaxors. Journal of Applied Physics, 1991, 69, 6595-6602.	1.1	54



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