

Multiferroic magnetoelectric composites: Historical perspectives and future directions

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Wave propagation in piezoelectric/piezomagnetic layered periodic composites. <i>Acta Mechanica Sinica</i> , 2008, 21, 483-490.	1.0	48
2	Functional Perovskites " From Epitaxial Films to Nanostructured Arrays. <i>Advanced Functional Materials</i> , 2008, 18, 3892-3906.	7.8	113
3	Magnetolectric effects in layered samples of lead zirconium titanate and nickel films. <i>Solid State Communications</i> , 2008, 148, 55-58.	0.9	29
4	Resonance enhancement of piezoelectric, dielectric, and magnetolectric characteristics of inhomogeneous multiferroics in alternating electric field. <i>Technical Physics Letters</i> , 2008, 34, 956-959.	0.2	4
5	Interface effects on the magnetolectric properties of (0 0l)-oriented Pb(Zr _{0.5} Ti _{0.5})O ₃ /CoFe ₂ O ₄ multilayer thin films. <i>Scripta Materialia</i> , 2008, 59, 897-900.	2.6	36
6	Theory of magnetolectric coupling in 2-type magnetostrictive/piezoelectric composite film with texture. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 125404.	1.3	14
7	Resonance magnetolectric interactions due to bending modes in a nickel-lead zirconate titanate bilayer. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	66
8	Influence of relative thickness on multiferroic properties of bilayered Pb(Zr _{0.52} Ti _{0.48})O ₃ "CoFe ₂ O ₄ thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	44
9	Multimodal system for harvesting magnetic and mechanical energy. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	161
10	Enhancement of magnetolectric coupling in functionally graded ferroelectric and ferromagnetic bilayers. <i>Physical Review B</i> , 2008, 78, .	1.1	85
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12	Magnetic-field induced electric response of simple magnetolectric composite rods. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 155001.	1.3	17
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14	Giant magnetolectric effect via strain-induced spin reorientation transitions in ferromagnetic films. <i>Physical Review B</i> , 2008, 78, .	1.1	93
15	Giant microwave tunability in FeGaB/lead magnesium niobate-lead titanate multiferroic composites. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	99
16	Magnetolectric effects in bilayers of lead zirconate titanate and single crystal hexaferrites. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	18
17	The magnetolectric effect in Ni"Fe alloy/ZnO nanorod array composites. <i>Nanotechnology</i> , 2008, 19, 485709.	1.3	7
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56	Microwave tunability in a GaAs-based multiferroic heterostructure: Co ₂ MnAl/GaAs/PMN-PT. Journal of Applied Physics, 2009, 105, .	1.1	23
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1092	Structural and dielectric characterization on multiferroic $x\text{Ni}_0.9\text{Zn}_0.1\text{Fe}_2\text{O}_4/(1-x)\text{PbZr}_0.52\text{Ti}_0.48\text{O}_3$ particulate composite. <i>Journal of Alloys and Compounds</i> , 2014, 593, 224-229.	2.8	25
1093	Giant magnetoelectric effect at low frequencies in polymer-based thin film composites. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	48
1094	Effect of Dy-substitution on structural, electrical and magnetic properties of multiferroic BiFeO_3 ceramics. <i>Ceramics International</i> , 2014, 40, 7983-7991.	2.3	94
1095	Refined equivalent single layer formulations and finite elements for smart laminates free vibrations. <i>Composites Part B: Engineering</i> , 2014, 61, 238-253.	5.9	61
1096	Multilayer magnetostrictive structure based surface acoustic wave devices. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	72
1097	Static magnetoelectric coupling of magnetoelectric laminated composites under combined temperature and stress loadings. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	24
1098	<i>In Situ</i> Domain Structure Observation and Giant Magnetoelectric Coupling for PMN-PT/Terfenol-D Multiferroic Composites. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2511-2516.	1.9	7
1099	Film size-dependent voltage-modulated magnetism in multiferroic heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120444.	1.6	21
1101	Synthesis and study of structural, dielectric, magnetic and magnetoelectric characterization of $\text{BiFeO}_3\text{-NiFe}_2\text{O}_4$ nanocomposites prepared by chemical solution method. <i>Journal of Alloys and Compounds</i> , 2014, 585, 805-810.	2.8	42
1102	Ferromagnetism and ferroelectricity in Fe doped BaTiO_3 . <i>Physica B: Condensed Matter</i> , 2014, 448, 204-206.	1.3	49
1103	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. <i>Current Opinion in Solid State and Materials Science</i> , 2014, 18, 6-18.	5.6	98
1104	Voltage control of magnetism in multiferroic heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120439.	1.6	118
1105	Review and prospects of magnonic crystals and devices with reprogrammable band structure. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 123202.	0.7	449
1106	Giant electric-field-induced magnetic anisotropy reorientation with patterned electrodes on a Ni thin film/lead zirconate titanate heterostructure. <i>Journal of Applied Physics</i> , 2014, 115, 17C711.	1.1	7
1107	Effects of intrinsic magnetostriction on tube-topology magnetoelectric sensors with high magnetic field sensitivity. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	10
1108	Enhanced magnetoelectric properties in lead-free $\text{Ni}_0.83\text{Co}_0.15\text{Cu}_0.02\text{Fe}_1.9\text{O}_4\text{-Na}_0.5\text{Bi}_0.5\text{TiO}_3$ composites by spark plasma sintering. <i>Scripta Materialia</i> , 2014, 82, 9-12.	2.6	24
1109	Structural and optical properties of manganese substituted nanocrystalline bismuth ferrite thin films by sol-gel process. <i>Journal of Alloys and Compounds</i> , 2014, 583, 106-110.	2.8	26

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1113	Structural and electrical properties of Bi ₅ Ti ₃ FeO ₁₅ ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 1348-1353.	1.1	16
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1116	Other Thermomechanical Heat Engines. Springer Briefs in Electrical and Computer Engineering, 2014, , 25-39.	0.3	2
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1148	Harmonic Balance Analysis for the Oscillations of Magnetic Levitation. <i>Applied Mechanics and Materials</i> , 2014, 672-674, 1554-1557.	0.2	0
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1150	Observation of magnetoelectric coupling and local piezoresponse in modified (Na _{0.5} Bi _{0.5})TiO ₃ –BaTiO ₃ –CoFe ₂ O ₄ lead-free composites. <i>Dalton Transactions</i> , 2014, 43, 9934-9943.	1.5	49
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1166	Fundamentals of interdiffusion microstructure maps for dual-alloy systems. <i>Acta Materialia</i> , 2014, 76, 463-471.	3.8	4
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2052	Synthesis and characterization of (100-x) Ba _{0.82} Sr _{0.03} Ca _{0.15} Zr _{0.10} Ti _{0.90} O _{3+λ} (x) Mg _{0.25} Cu _{0.25} Zn _{0.5} Mn _{0.05} Fe _{1.95} O ₄ composites with improved magnetoelectric voltage coefficient. <i>Journal of Alloys and Compounds</i> , 2018, 735, 291-311.	2.8	22
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2076	Magnetic field sensors using arrays of electrospun magnetoelectric Janus nanowires. Microsystems and Nanoengineering, 2018, 4, 37.	3.4	22
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2080	High magnetoelectric coupling in Si-integrated AlN/NiMnIn thin film double layers at room temperature. Applied Physics Letters, 2018, 113, .	1.5	14
2081	Ultra-low-field magneto-elastocaloric cooling in a multiferroic composite device. Nature Communications, 2018, 9, 4075.	5.8	48
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2084	Piezoelectric Polymers and Polymer Composites for Sensors and Actuators. , 2018, , .		0
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2092	Gradient-Type Magnetoelectric Current Sensor with Strong Multisource Noise Suppression. <i>Sensors</i> , 2018, 18, 588.	2.1	12
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2097	Energy storage and magnetoelectric coupling in ferroelectric-ferrite composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18352-18357.	1.1	21
2098	Lorentz magneto-resonator model and colossal magnetodielectric effect of magnetoelectric heterostructures. <i>Sensors and Actuators A: Physical</i> , 2018, 281, 150-155.	2.0	0
2099	Enhancement of Magnetoelectric Conversion Achieved by Optimization of Interfacial Adhesion Layer in Laminate Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32323-32330.	4.0	37
2100	Surface anisotropy induced magnetism in BaTiO ₃ -CoFe ₂ O ₄ (BTO-CFO) nanocomposite. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 93-99.	1.0	16
2101	Enhanced magnetic ordering transition temperature and broad dielectric relaxation in iron incorporated intergrown pyrochlore-spinel crystals. <i>Journal of Alloys and Compounds</i> , 2018, 763, 409-420.	2.8	2
2102	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
2103	A quasistatic hysteresis model for magnetoelectric effect in multiferroic nanostructured films with surface effect. <i>Journal of Alloys and Compounds</i> , 2018, 762, 706-718.	2.8	10

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3000	Effectively coupled BiFeO ₃ -MnFe ₂ O ₄ -Cr ₂ O ₃ tri-phase multiferroic composites for efficient energy storage and fast switching. <i>Journal of Alloys and Compounds</i> , 2022, 929, 167274.	2.8	5
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