

Jitao Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Dual-Output Magnetolectric Energy Harvester in Ferrite/Piezoelectric Toroidal Magnetolectric Composites. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	0
2	Enhancement of Gyration Effects by Dysprosium-Doped Ferrite/Piezoelectric Magnetolectric Gytrators. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	1
3	Strain induced anisotropy in liquid phase epitaxy grown nickel ferrite on magnesium gallate substrates. Scientific Reports, 2022, 12, 7052.	3.3	0
4	Non-reciprocal voltageâ€‘current and impedance gyration effects in ferrite/piezoelectric toroidal magnetolectric composites. Applied Physics Letters, 2021, 118, .	3.3	5
5	Nonlinear magnetolectric effects in Al-substituted strontium hexaferrite. Scientific Reports, 2021, 11, 8733.	3.3	7
6	Disentangling the power transfer process by non-contact optical measurement in nickel-zinc ferrite/piezoelectric magnetolectric gytrators. Journal of Magnetism and Magnetic Materials, 2021, 524, 167680.	2.3	9
7	High-resolution magnetic sensors in ferrite/piezoelectric heterostructure with giant magnetodielectric effect at zero bias field. Review of Scientific Instruments, 2021, 92, 045006.	1.3	4
8	Design Consideration of Bidirectional Wireless Power Transfer and Full-Duplex Communication System via a Shared Inductive Channel. Energies, 2021, 14, 4918.	3.1	1
9	Effects of magnetic-elastic anisotropy on magnetolectric gytrator with ferrite/PZT/ferrite laminate for enhancement of power conversion efficiencies. Journal of Magnetism and Magnetic Materials, 2021, 540, 168451.	2.3	3
10	Influence of shape on power conversion efficiency of Ni-Zn ferrite/piezoelectric magnetolectric gytrator. Journal of Physics: Conference Series, 2021, 1759, 012007.	0.4	1
11	Bi-stable magnetolectric data flip-flop triggered by magnetic field. Journal of Materials Science: Materials in Electronics, 2021, 32, 2249-2257.	2.2	1
12	Strain-Mediated Magneto-Electric Effects in Coaxial Nanofibers of Y/W-Type Hexagonal Ferrites and Ferroelectrics. Journal of Composites Science, 2021, 5, 268.	3.0	3
13	Low-Frequency Magnetolectric Effects in Magnetostrictiveâ€‘Piezoelectric Bilayers: Longitudinal and Bending Deformations. Journal of Composites Science, 2021, 5, 287.	3.0	4
14	Field-Orientation-Dependent Dynamic Strain Induced Anisotropic Magnetolectric Responses in Bi-layered Ferrite/Piezoelectric Composites. Journal of Electronic Materials, 2020, 49, 1120-1130.	2.2	5
15	Undistorted 180Â° phase reversal of magnetolectric coupling in bi-layered multiferroic laminate. Journal of Magnetism and Magnetic Materials, 2020, 494, 165802.	2.3	4
16	Strong Converse Magnetolectric Effect in a Composite of Weakly Ferromagnetic Iron Borate and Ferroelectric Lead Zirconate Titanate. Physical Review Applied, 2020, 14, .	3.8	5
17	A Simultaneous Wireless Information and Power Transfer System With Independent Channel for Information Transfer. IEEE Access, 2020, 8, 125610-125619.	4.2	7
18	Dual-Frequency Output of Wireless Power Transfer System with Single Inverter Using Improved Differential Evolution Algorithm. Energies, 2020, 13, 2209.	3.1	6

#	ARTICLE	IF	CITATIONS
19	Magnetolectric and magnetostriction characteristics of symmetric three layered structures of nickel - lead zirconate titanate " nickel and permendure " lead zirconate titanate " permendure. IOP Conference Series: Materials Science and Engineering, 2020, 939, 012023.	0.6	1
20	Research on Fall Detection System of Wearable Devices Based on ELM Algorithm. , 2019, , .		3
21	Magneto-Electric Hybrid Generator for Simultaneously Harvesting Vibration and Stray Magnetic Field Energy. IEEE Magnetics Letters, 2019, 10, 1-4.	1.1	2
22	Electric-field-controlled frequency tunability enhancement by samarium light doping in PZT/Ni"Zn ferrite/PZT magnetolectric composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 16347-16352.	2.2	4
23	Magneto-electric interactions in composites of self-biased Y- and W-type hexagonal ferrites and lead zirconate titanate: Experiment and theory. Journal of Applied Physics, 2019, 126, .	2.5	8
24	Theory of tunable magnetolectric inductors in ferrite-piezoelectric layered composite. Journal Physics D: Applied Physics, 2019, 52, 165001.	2.8	12
25	Self-biased magnetolectric gyrators in composite of samarium substituted nickel zinc ferrites and piezoelectric ceramics. AIP Advances, 2019, 9, .	1.3	14
26	Effects of remanent magnetization on dynamic magnetomechanical and magnetic-sensing characteristics in bi-layer multiferroics. EPJ Applied Physics, 2019, 85, 20601.	0.7	10
27	Improved Tunability in Metglas/Ferrite/PZT Magnetolectric Tunable Inductors. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
28	Highly efficient power conversion in magnetolectric gyrators with high quality factor. Review of Scientific Instruments, 2019, 90, 015004.	1.3	12
29	Magnetolectric effects and power conversion efficiencies in gyrators with compositionally-graded ferrites and piezoelectrics. Journal of Magnetism and Magnetic Materials, 2019, 473, 131-135.	2.3	36
30	Self-assembly of multiferroic core-shell composites using DNA functionalized nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 460, 424-431.	2.3	8
31	Enhanced tunability of magneto-impedance and magneto-capacitance in annealed Metglas/PZT magnetolectric composites. AIP Advances, 2018, 8, 055803.	1.3	10
32	A Highly Efficient Self-Biased Nickel-Zinc Ferrite/Metglas/PZT Magnetolectric Gyrator. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800043.	2.4	18
33	Research on Pedestrian Navigation Zero Velocity Correction Method Based on Multi-sensor. , 2018, , .		1
34	Bidirectional tunable ferrite-piezoelectric trilayer magnetolectric inductors. Applied Physics Letters, 2018, 113, .	3.3	15
35	Multiferroic Core-Shell Nanofibers, Assembly in a Magnetic Field, and Studies on Magneto-Electric Interactions. Materials, 2018, 11, 18.	2.9	24
36	A Three-Dimensional Magneto-Electric Vibration Energy Harvester Based on Magnetic Levitation. IEEE Magnetics Letters, 2017, 8, 1-3.	1.1	11

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37	Enhanced stability of magnetoelectric gyrators under high power conditions. Applied Physics Letters, 2017, 111, .	3.3	14
38	An autonomous current-sensing system for electric cord monitoring using magnetoelectric sensors. , 2017, , .		5
39	A Non-Resonant Magnetoelectric Energy Converter for Scavenging Magnetic Field Energy From Two-Wire Power Cords. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
40	Magnetoelectric Effect for Rotational Parameters Detection. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
41	A Passive Electric Current Sensor Based on Ferromagnetic Invariant Elastic Alloy, Piezoelectric Ceramic, and Permalloy Yoke. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
42	Broadband high-sensitivity current-sensing device utilizing nonlinear magnetoelectric medium and nanocrystalline flux concentrator. Review of Scientific Instruments, 2015, 86, 095005.	1.3	11
43	A Noncontact Magnetoelectric Generator for Energy Harvesting From Power Lines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	15
44	Magnetoelectric Composite Metglas/PZT-Based Current Sensor. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
45	Note: High-efficiency broadband acoustic energy harvesting using Helmholtz resonator and dual piezoelectric cantilever beams. Review of Scientific Instruments, 2014, 85, 066103.	1.3	44
46	Note: A high-sensitivity current sensor based on piezoelectric ceramic Pb(Zr,Ti)O ₃ and ferromagnetic materials. Review of Scientific Instruments, 2014, 85, 026110.	1.3	10
47	Enhanced magnetoelectric effects in composite of piezoelectric ceramics, rare-earth iron alloys, and shape-optimized nanocrystalline alloys. Review of Scientific Instruments, 2014, 85, 033904.	1.3	3
48	Dynamic magnetostrictive properties of magnetization-graded ferromagnetic material and application in magnetoelectric composite. Journal of Applied Physics, 2014, 115, .	2.5	12
49	Significant tuning of band structures of magneto-mechanical phononic crystals using extraordinarily small magnetic fields. Applied Physics Letters, 2014, 105, 011904.	3.3	14
50	Enhanced Multippeak Magnetoelectric Effects in Ferromagnetic/Ferroelectric Composite With H-Shaped Elastic Substrate. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
51	Large Self-Biased Converse Magnetoelectric Effects in FeSiB/Terfenol-D/Pb(Mg _{1/3} Nb _{2/3})-PbTiO ₃ Composites. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	5
52	Giant 2-D Magnetoelectric Effects in a Unique Magnetostrictive/Piezoelectric Heterostructure Without Interface Bonding. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
53	Enhanced acoustic wave localization effect using coupled sonic crystal resonators. Applied Physics Letters, 2014, 104, .	3.3	26
54	High-sensitivity laminated magnetoelectric sensors without bias in composite of positive/negative giant magnetostrictive materials and piezoelectric single crystals. Journal of Applied Physics, 2014, 115, .	2.5	8

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55	Enhanced sensitivity in magnetoelectric current-sensing devices with frequency up-conversion mechanism by modulating the magnetostrictive strain. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	6
56	Shear-mode self-biased magnetostrictive/piezoelectric laminate multiferroic heterostructures for magnetic field detecting and energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2014, 214, 149-155.	4.1	32
57	Energy Harvesting From Two-Wire Power Cords Using Magnetoelectric Transduction. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-5.	2.1	14
58	Investigation of magnetostrictive/piezoelectric multilayer composite with a giant zero-biased magnetoelectric effect. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 413-421.	2.3	33
59	Enhancement of resonant magnetoelectric effect in magnetostrictive/piezoelectric heterostructure by end bonding. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	33
60	Giant self-biased magnetoelectric response with obvious hysteresis in layered homogeneous composites of negative magnetostrictive material Samfenol and piezoelectric ceramics. <i>Applied Physics Letters</i> , 2013, 103, 202902.	3.3	42
61	High-resolution current sensor utilizing nanocrystalline alloy and magnetoelectric laminate composite. <i>Review of Scientific Instruments</i> , 2012, 83, 115001.	1.3	49