

Jitao Zhang

List of Publications by Year in descending order

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62
all docs

62
docs citations

62
times ranked

500
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution current sensor utilizing nanocrystalline alloy and magnetoelectric laminate composite. Review of Scientific Instruments, 2012, 83, 115001.	1.3	49
2	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
3	Giant self-biased magnetoelectric response with obvious hysteresis in layered homogeneous composites of negative magnetostrictive material Samfenol and piezoelectric ceramics. Applied Physics Letters, 2013, 103, 202902.	3.3	42
4	Magnetoelectric 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
5	Investigation of magnetostrictive/piezoelectric multilayer composite with a giant zero-biased magnetoelectric effect. Applied Physics A: Materials Science and Processing, 2013, 113, 413-421.	2.3	33
6	Enhancement of resonant magnetoelectric effect in magnetostrictive/piezoelectric heterostructure by end bonding. Applied Physics Letters, 2013, 102, .	3.3	33
7	Shear-mode self-biased magnetostrictive/piezoelectric laminate multiferroic heterostructures for magnetic field detecting and energy harvesting. Sensors and Actuators A: Physical, 2014, 214, 149-155.	4.1	32
8	Enhanced acoustic wave localization effect using coupled sonic crystal resonators. Applied Physics Letters, 2014, 104, .	3.3	26
9	Multiferroic Core-Shell Nanofibers, Assembly in a Magnetic Field, and Studies on Magneto-Electric Interactions. Materials, 2018, 11, 18.	2.9	24
10	A Highly Efficient Self-Biased Nickel-Zinc Ferrite/Metglas/PZT Magnetoelectric Gyrator. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800043.	2.4	18
11	A Noncontact Magnetoelectric Generator for Energy Harvesting From Power Lines. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	15
12	Bidirectional tunable ferrite-piezoelectric trilayer magnetoelectric inductors. Applied Physics Letters, 2018, 113, .	3.3	15
13	Significant tuning of band structures of magneto-mechanical phononic crystals using extraordinarily small magnetic fields. Applied Physics Letters, 2014, 105, 011904.	3.3	14
14	Energy Harvesting From Two-Wire Power Cords Using Magnetoelectric Transduction. IEEE Transactions on Magnetics, 2014, 50, 1-5.	2.1	14
15	Enhanced stability of magnetoelectric gyrators under high power conditions. Applied Physics Letters, 2017, 111, .	3.3	14
16	Self-biased magnetoelectric gyrators in composite of samarium substituted nickel zinc ferrites and piezoelectric ceramics. AIP Advances, 2019, 9, .	1.3	14
17	Magnetoelectric Composite Metglas/PZT-Based Current Sensor. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	13
18	Dynamic magnetostrictive properties of magnetization-graded ferromagnetic material and application in magnetoelectric composite. Journal of Applied Physics, 2014, 115, .	2.5	12

#	ARTICLE	IF	CITATIONS
19	Theory of tunable magnetoelectric inductors in ferrite-piezoelectric layered composite. Journal Physics D: Applied Physics, 2019, 52, 165001.	2.8	12
20	Highly efficient power conversion in magnetoelectric gyrators with high quality factor. Review of Scientific Instruments, 2019, 90, 015004.	1.3	12
21	Broadband high-sensitivity current-sensing device utilizing nonlinear magnetoelectric medium and nanocrystalline flux concentrator. Review of Scientific Instruments, 2015, 86, 095005.	1.3	11
22	A Three-Dimensional Magneto-Electric Vibration Energy Harvester Based on Magnetic Levitation. IEEE Magnetics Letters, 2017, 8, 1-3.	1.1	11
23	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
24	Enhanced tunability of magneto-impedance and magneto-capacitance in annealed Metglas/PZT magnetoelectric composites. AIP Advances, 2018, 8, 055803.	1.3	10
25	Effects of remanent magnetization on dynamic magnetomechanical and magnetic-sensing characteristics in bi-layer multiferroics. EPJ Applied Physics, 2019, 85, 20601.	0.7	10
26	Disentangling the power transfer process by non-contact optical measurement in nickel-zinc ferrite/piezoelectric magnetoelectric gyrators. Journal of Magnetism and Magnetic Materials, 2021, 524, 167680.	2.3	9
27	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
28	Self-assembly of multiferroic core-shell composites using DNA functionalized nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 460, 424-431.	2.3	8
29	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
30	A Simultaneous Wireless Information and Power Transfer System With Independent Channel for Information Transfer. IEEE Access, 2020, 8, 125610-125619.	4.2	7
31	Nonlinear magnetoelectric effects in Al-substituted strontium hexaferrite. Scientific Reports, 2021, 11, 8733.	3.3	7
32	Enhanced sensitivity in magnetoelectric current-sensing devices with frequency up-conversion mechanism by modulating the magnetostrictive strain. Journal of Applied Physics, 2014, 115, .	2.5	6
33	Dual-Frequency Output of Wireless Power Transfer System with Single Inverter Using Improved Differential Evolution Algorithm. Energies, 2020, 13, 2209.	3.1	6
34	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
35	Magnetoelectric Effect for Rotational Parameters Detection. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	5
36	An autonomous current-sensing system for electric cord monitoring using magnetoelectric sensors. , 2017, , .		5

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37	Improved Tunability in Metglas/Ferrite/PZT Magnetolectric Tunable Inductors. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
38	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
39	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
40	Non-reciprocal voltageâ€“current and impedance gyration effects in ferrite/piezoelectric toroidal magnetolectric composites. Applied Physics Letters, 2021, 118, .	3.3	5
41	Electric-field-controlled frequency tunability enhancement by samarium light doping in PZT/Niâ€“Zn ferrite/PZT magnetolectric composites. Journal of Materials Science: Materials in Electronics, 2019, 30, 16347-16352.	2.2	4
42	Undistorted 180Â° phase reversal of magnetolectric coupling in bi-layered multiferroic laminate. Journal of Magnetism and Magnetic Materials, 2020, 494, 165802.	2.3	4
43	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
44	Low-Frequency Magnetolectric Effects in Magnetostrictiveâ€“Piezoelectric Bilayers: Longitudinal and Bending Deformations. Journal of Composites Science, 2021, 5, 287.	3.0	4
45	Enhanced magnetolectric 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
46	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
47	Research on Fall Detection System of Wearable Devices Based on ELM Algorithm. , 2019, , .		3
48	Effects of magnetic-elastic anisotropy on magnetolectric gyrator with ferrite/PZT/ferrite laminate for enhancement of power conversion efficiencies. Journal of Magnetism and Magnetic Materials, 2021, 540, 168451.	2.3	3
49	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
50	Magneto-Electric Hybrid Generator for Simultaneously Harvesting Vibration and Stray Magnetic Field Energy. IEEE Magnetics Letters, 2019, 10, 1-4.	1.1	2
51	Enhanced Multippeak Magnetolectric Effects in Ferromagnetic/Ferroelectric Composite With H-Shaped Elastic Substrate. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
52	Giant 2-D Magnetolectric Effects in a Unique Magnetostrictive/Piezoelectric Heterostructure Without Interface Bonding. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	1
53	A Non-Resonant Magnetolectric Energy Converter for Scavenging Magnetic Field Energy From Two-Wire Power Cords. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	1
54	Research on Pedestrian Navigation Zero Velocity Correction Method Based on Multi-sensor. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	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
56	Enhancement of Gyration Effects by Dysprosium-Doped Ferrite/Piezoelectric Magnetolectric Gytrators. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	1
57	Design Consideration of Bidirectional Wireless Power Transfer and Full-Duplex Communication System via a Shared Inductive Channel. Energies, 2021, 14, 4918.	3.1	1
58	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
59	Bi-stable magnetolectric data flip-flop triggered by magnetic field. Journal of Materials Science: Materials in Electronics, 2021, 32, 2249-2257.	2.2	1
60	A Dual-Output Magnetolectric Energy Harvester in Ferrite/Piezoelectric Toroidal Magnetolectric Composites. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	0
61	Strain induced anisotropy in liquid phase epitaxy grown nickel ferrite on magnesium gallate substrates. Scientific Reports, 2022, 12, 7052.	3.3	0