

# Hao-Miao Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

564  
citations

687363

13  
h-index

713466

21  
g-index

51  
all docs

51  
docs citations

51  
times ranked

481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of magnetomechanical properties in FeGaB thin films. Applied Physics Letters, 2018, 113, .	3.3	53
2	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect. , 2017, 1, 1-4.		50
3	An analytical and explicit multi-field coupled nonlinear constitutive model for Terfenol-D giant magnetostrictive material. Smart Materials and Structures, 2016, 25, 085036.	3.5	48
4	An analytical nonlinear magnetoelectric coupling model of laminated composites under combined pre-stress and magnetic bias loadings. Smart Materials and Structures, 2013, 22, 035018.	3.5	45
5	Equivalent circuit method research of resonant magnetoelectric characteristic in magnetoelectric laminate composites using nonlinear magnetostrictive constitutive model. Smart Materials and Structures, 2011, 20, 035001.	3.5	35
6	A general one-dimension nonlinear magneto-elastic coupled constitutive model for magnetostrictive materials. AIP Advances, 2015, 5, .	1.3	35
7	Vibration suppression of cantilever laminated composite plate with nonlinear giant magnetostrictive material layers. Acta Mechanica Solida Sinica, 2015, 28, 50-61.	1.9	35
8	Static magnetoelectric coupling of magnetoelectric laminated composites under combined temperature and stress loadings. Journal of Applied Physics, 2014, 115, .	2.5	24
9	Nonlinear resonant magnetoelectric coupling effect with thermal, stress and magnetic loadings in laminated composites. Composite Structures, 2015, 128, 35-41.	5.8	21
10	Adjustable magnetoelectric effect of self-assembled vertical multiferroic nanocomposite films by the in-plane misfit strain and ferromagnetic volume fraction. Journal of Applied Physics, 2014, 115, 114105.	2.5	19
11	Small-size reconfigurable antenna for WWAN/LTE/GNSS smartphone applications. IET Microwaves, Antennas and Propagation, 2017, 11, 923-928.	1.4	19
12	Model of resonance mechanical loss that considers bias field and pre-stress in magnetostrictive/piezoelectric sandwich laminate. Journal of Alloys and Compounds, 2015, 631, 165-170.	5.5	18
13	Nonlinear resonant magnetoelectric coupling model for dual-peak phenomenon in magnetoelectric laminates. Journal of Alloys and Compounds, 2016, 672, 292-297.	5.5	16
14	A theoretical study of the nonlinear thermo-magneto-electric coupling effect in magnetoelectric laminates. Smart Materials and Structures, 2014, 23, 105014.	3.5	14
15	Voltage control of magnetic domain wall injection into strain-mediated multiferroic heterostructures. Nanoscale, 2020, 12, 14479-14486.	5.6	14
16	Equivalent circuit model of converse magnetoelectric effect for the tri-layer magnetoelectric laminates with thermal and stress loadings. AIP Advances, 2015, 5, 127137.	1.3	13
17	Strain-modulated magnetization precession in skyrmion-based spin transfer nano-oscillator. Applied Physics Letters, 2021, 118, .	3.3	12
18	Bias magnetic field and test period dependences of direct and converse magnetoelectric hysteresis of tri-layered magnetoelectric composite. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	8

#	ARTICLE	IF	CITATIONS
19	Strain-driven radial vortex core reversal in geometric confined multiferroic heterostructures. Applied Physics Letters, 2021, 118, 262412.	3.3	8
20	Strain-driven magnetic domain wall dynamics controlled by voltage in multiferroic heterostructures. Journal of Magnetism and Magnetic Materials, 2022, 552, 169229.	2.3	7
21	Wind-blown Sand Electrification Inspired Triboelectric Energy Harvesting Based on Homogeneous Inorganic Materials Contact: A Theoretical Study and Prediction. Scientific Reports, 2016, 6, 19912.	3.3	6
22	A generalized lumped element modeling of electrically and magnetically dual-tunable coupled microstrip filters. Journal of Applied Physics, 2013, 114, 153904.	2.5	5
23	Nonlinear resonance converse magnetoelectric effect modulated by voltage for the symmetrical magnetoelectric laminates under magnetic and thermal loadings. AIP Advances, 2016, 6, .	1.3	5
24	Small-Size Seven-Band WWAN/LTE Antenna with Distributed LC Resonant Circuit for Smartphone Application. International Journal of Antennas and Propagation, 2015, 2015, 1-9.	1.2	4
25	Small-size narrow-frame PIFA for LTE/WWAN/GNSS handset application. Microwave and Optical Technology Letters, 2016, 58, 1689-1693.	1.4	4
26	A Lumped Equivalent Circuit Model for Symmetrical T-Shaped Microstrip Magnetolectric Tunable Microwave Filters. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	4
27	Bias magnetic field and test period dependences of magnetoelectric hysteresis of particulate multiferroic composites. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
28	Nonlinear multi-fields coupled model of magnetoelectric coefficient and sensitivity in bilayer ME sensor. AIP Advances, 2018, 8, 065016.	1.3	4
29	Small-size LTE/WWAN planar printed antenna for ultrathin smartphone application. Microwave and Optical Technology Letters, 2015, 57, 2116-2120.	1.4	3
30	Studies on mechanical loss in converse magnetoelectric effect under multi-physical field. Smart Materials and Structures, 2019, 28, 024004.	3.5	3
31	A nona-band narrow-frame antenna with a defected ground structure for mobile phone applications. Microwave and Optical Technology Letters, 2020, 62, 498-506.	1.4	3
32	The low-frequency improvement with loading soft magnetic ferrite films for multiband antenna applications. International Journal of Applied Electromagnetics and Mechanics, 2021, 66, 359-368.	0.6	3
33	Micromagnetic prediction strain and current co-mediated spindynamics in skyrmion-based spin-torque nano-oscillator. Journal Physics D: Applied Physics, 2022, 55, 175003.	2.8	3
34	Wideband Low-Profile 8x8 MIMO Antenna Based IFA Pair for Ultrathin 5G Smartphones. International Journal of Antennas and Propagation, 2022, 2022, 1-10.	1.2	3
35	Design of dual-stop-band microwave filter based on the magnetoelectric composite. , 2011, , .		2
36	Equivalent circuit model including magnetic and thermo sources for the thermo-magneto-electric coupling effect in magnetoelectric laminates. Chinese Physics B, 2015, 24, 077506.	1.4	2

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37	A Low-Profile Dual-Polarized MIMO Antenna with an AMC Surface for WLAN Applications. International Journal of Antennas and Propagation, 2021, 2021, 1-12.	1.2	2
38	Design of Reconfigurable Spin-Wave Nanochannels Based on Strain-Mediated Multiferroic Heterostructures and Logic Device Applications. IEEE Transactions on Electron Devices, 2022, 69, 1650-1657.	3.0	2
39	Dynamics of domain wall induced by voltage-controlled strain-field gradient. AIP Advances, 2022, 12, .	1.3	2
40	Design of a Radial Vortex-Based Spin-Torque Nano-Oscillator in a Strain-Mediated Multiferroic Nanostructure for BFSK/BASK Applications. Micromachines, 2022, 13, 1056.	2.9	2
41	Multiband Printed Loop Mobile Phone Antenna for LTE/WWAN/GNSS Application. International Journal of Antennas and Propagation, 2016, 2016, 1-7.	1.2	1
42	Small-size planar printed loop antenna for octa-band WWAN/LTE smartphone application. Journal of Physics: Conference Series, 2018, 1074, 012090.	0.4	1
43	Magnetization Dynamics and Spin Wave Excitation in Strain-Mediated Multiferroic Heterostructures With the Interfacial Dzyaloshinskii-Moriya Interaction. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
44	Decoupling Technique Using Ferrite-Film Loading for 5G MIMO Applications. International Journal of Antennas and Propagation, 2022, 2022, 1-12.	1.2	1
45	A Novel Dual-Frequency Monopole Antenna for Wireless Handsets. , 2009, , .		0
46	Effect of the demagnetizing field on the simulation design of the magnetoelectric tunable microwave devices. , 2011, , .		0
47	Dielectric response of $(K_{0.5}Na_{0.5})NbO_3/CoFe_2O_4/(K_{0.5}Na_{0.5})NbO_3$ sandwich films. Ferroelectrics, Letters Section, 2015, 43, 105-111.		
48	Model of resonance mechanical loss considering temperature in magnetoelectric laminates. AIP Conference Proceedings, 2016, , .	0.4	0
49	Design of Low Coupling MIMO Antenna Array with Parasitic Ground Structure. , 2018, , .		0
50	Design of small-size nine-band LTE/WWAN smartphone antenna using defected ground structure. Journal of Physics: Conference Series, 2018, 1074, 012084.	0.4	0
51	Coupled-Fed Antenna with Parasitic Ground Structure for Octa-band WWAN/LTE Narrow-Frame Mobile Phone. Journal of Physics: Conference Series, 2019, 1325, 012202.	0.4	0