

Cun-Zheng Dong

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Portable Very Low Frequency (VLF) Communication System Based on Acoustically Actuated Magnetolectric Antennas. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 398-402.	4.0	116
2	Ultra-compact dual-band smart NEMS magnetolectric antennas for simultaneous wireless energy harvesting and magnetic field sensing. Nature Communications, 2021, 12, 3141.	12.8	95
3	Ultra-sensitive NEMS magnetolectric sensor for picotesla DC magnetic field detection. Applied Physics Letters, 2017, 110, .	3.3	83
4	A Review of Thin-Film Magnetoelastic Materials for Magnetolectric Applications. Sensors, 2020, 20, 1532.	3.8	69
5	NanoNeuroRFID: A Wireless Implantable Device Based on Magnetolectric Antennas. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 206-215.	3.4	66
6	Characterization of magnetomechanical properties in FeGaB thin films. Applied Physics Letters, 2018, 113, .	3.3	53
7	Mechanical-Resonance-Enhanced Thin-Film Magnetolectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. Materials, 2019, 12, 2259.	2.9	53
8	Highly Sensitive DC Magnetic Field Sensor Based on Nonlinear ME Effect. , 2017, 1, 1-4.		50
9	Ultra-compact mechanical antennas. Applied Physics Letters, 2020, 117, .	3.3	47
10	Roadmap on Magnetolectric Materials and Devices. IEEE Transactions on Magnetism, 2021, 57, 1-57.	2.1	43
11	A low-power and high-sensitivity magnetic field sensor based on converse magnetolectric effect. Applied Physics Letters, 2019, 115, .	3.3	30
12	Voltage-Driven Nonlinearity in Magnetolectric Heterostructures. Physical Review Applied, 2019, 12, .	3.8	24
13	Soft Magnetism, Magnetostriction, and Microwave Properties of Fe-Ga-C Alloy Films. IEEE Magnetics Letters, 2019, 10, 1-5.	1.1	22
14	Highly sensitive integrated flexible tactile sensors with piezoresistive Ge ₂ Sb ₂ Te ₅ thin films. Npj Flexible Electronics, 2018, 2, .	10.7	21
15	Integrated Tunable Magnetolectric RF Inductors. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 951-963.	4.6	20
16	Underlayer effect on the soft magnetic, high frequency, and magnetostrictive properties of FeGa thin films. Journal of Applied Physics, 2020, 128, .	2.5	17
17	A passive isolator realized by magnetolectric laminate composites. Applied Physics Letters, 2018, 113, .	3.3	16
18	Magnetostriction, Soft Magnetism, and Microwave Properties in $\text{Co}/\text{Fe}/\text{C}$ Alloy Films. Physical Review Applied, 2019, 12, .	3.8	16

#	ARTICLE	IF	CITATIONS
19	Future Antenna Miniaturization Mechanism: Magnetolectric Antennas. , 2018, , .		15
20	Thin Film Magnetolectric Sensors Toward Biomagnetism: Materials, Devices, and Applications. Advanced Electronic Materials, 2022, 8, .	5.1	14
21	Enhancing the soft magnetic properties of FeGa with a non-magnetic underlayer for microwave applications. Applied Physics Letters, 2020, 116, 222404.	3.3	10
22	NEMS Magnetolectric Antennas for Biomedical Application. , 2018, , .		9
23	Low-Frequency Magnetic Field Detection Using Magnetolectric Sensor With Optimized Metglas Layers by Frequency Modulation. IEEE Sensors Journal, 2022, 22, 4028-4035.	4.7	9
24	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
25	Nonreciprocal Isolating Bandpass Filter With Enhanced Isolation Using Metallized Ferrite. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5307-5316.	4.6	8
26	High-Performance On-Chip Hot-Pressed NdFeB Hard Magnets for MEMS Applications. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	5
27	Application of Bayesian Optimization and Regression Analysis to Ferromagnetic Materials Development. IEEE Transactions on Magnetics, 2022, 58, 1-8.	2.1	4
28	Thermal annealing on the soft magnetism, microwave properties, and magnetostriction in Co-Fe-C alloy films. Journal of Alloys and Compounds, 2021, 874, 159783.	5.5	3
29	Multiferroic Composites. , 2021, , 225-240.		1
30	Electrostatically Tunable Mutual Inductance for Frequency Splitting Elimination in Wireless Power Transfer. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	1
31	Homoepitaxial Mn ₃ Ge films on ultra-thin Fe seed layer with high perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 514, 167146.	2.3	0