

Lei Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Multitrack Detection With 2-D Iterative Soft Estimate Aided Neural Network Equalizer for Heat-Assisted Interlaced Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-8.	2.1	7
3	Theoretical analyses of magnetolectric effects for magnetostrictive/radial mode piezoelectric transformer composite under dual ac stress and magnetic field modulation. Smart Materials and Structures, 2021, 30, 075018.	3.5	4
4	Dependence of Modified Butterworth Van-Dyke Model Parameters and Magnetoimpedance on DC Magnetic Field for Magnetolectric Composites. Materials, 2021, 14, 4730.	2.9	4
5	Realization of Nonvolatile Multistate Memory and All 16 Boolean Logic Functions in a Single Self-Biased Magnetoimpedance Device. IEEE Transactions on Electron Devices, 2021, 68, 4910-4917.	3.0	1
6	Multitrack Detection With a Two-Dimensional Soft-Transition Assisted Multitask Neural Network for Heat-Assisted Interlaced Magnetic Recording. IEEE Magnetics Letters, 2021, 12, 1-5.	1.1	1
7	The Study of Magnetoimpedance Effect for Magnetolectric Laminate Composites with Different Magnetostrictive Layers. Materials, 2021, 14, 6397.	2.9	1
8	A giant magnetoimpedance effect based nonvolatile Boolean logic gate. Journal Physics D: Applied Physics, 2020, 53, 035001.	2.8	4
9	Multitrack Detection With Two-Dimensional Hybrid Equalizer for High-Density Bit-Patterned Media Recording. IEEE Magnetics Letters, 2020, 11, 1-5.	1.1	2
10	Enhanced dc Magnetic Field Sensitivity for Coupled ac Magnetic Field and Stress Driven Soft Magnetic Laminate Heterostructure. IEEE Sensors Journal, 2020, 20, 14756-14763.	4.7	6
11	The effects of the soft magnetic alloys™ material characteristics on resonant magnetolectric coupling for magnetostrictive/piezoelectric composites. Smart Materials and Structures, 2019, 28, 045003.	3.5	6
12	Resonance magnetolectric couplings of piezoelectric ceramic and ferromagnetic constant-elasticity alloy composites with different layer structures. Journal of Alloys and Compounds, 2013, 555, 156-160.	5.5	24
13	The magnetostrictive material effects on magnetic field sensitivity for magnetolectric sensor. Journal of Applied Physics, 2012, 111, 07E503.	2.5	22
14	Transverse, longitudinal and perpendicular giant magnetoimpedance effects in a compact multiturn meander NiFe/Cu/NiFe trilayer film sensor. Measurement Science and Technology, 2011, 22, 035202.	2.6	15