Dhiman Mallick

List of Publications by Year
in descending order

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36	472	758635	676716
papers	citations	12	22
		h-index	g-index

37	37	37	379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surfing the High Energy Output Branch of Nonlinear Energy Harvesters. Physical Review Letters, 2016, 117, 197701.	2.9	83
2	A nonlinear stretching based electromagnetic energy harvester on FR4 for wideband operation. Smart Materials and Structures, 2015, 24, 015013.	1.8	68
3	Magnetic Tuning of Nonlinear MEMS Electromagnetic Vibration Energy Harvester. Journal of Microelectromechanical Systems, 2017, 26, 539-549.	1.7	35
4	High Figure of Merit Nonlinear Microelectromagnetic Energy Harvesters for Wideband Applications. Journal of Microelectromechanical Systems, 2017, 26, 273-282.	1.7	29
5	Multi-frequency MEMS electromagnetic energy harvesting. Sensors and Actuators A: Physical, 2017, 264, 247-259.	2.0	27
6	Comparison of harmonic balance and multi-scale method in characterizing the response of monostable energy harvesters. Mechanical Systems and Signal Processing, 2018, 108, 252-261.	4.4	27
7	Bidirectional electrical tuning of FR4 based electromagnetic energy harvesters. Sensors and Actuators A: Physical, 2015, 226, 154-162.	2.0	25
8	MEMS-Based Vibrational Energy Harvesting and Conversion Employing Micro-/Nano-Magnetics. IEEE Transactions on Magnetics, 2019, 55, 1-15.	1.2	23
9	Nonlinear Energy Harvesting Using Electromagnetic Transduction for Wide Bandwidth. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	19
10	Low-Cost, High-Performance Piezoelectric Nanocomposite for Mechanical Energy Harvesting. IEEE Sensors Journal, 2021, 21, 21268-21276.	2.4	16
11	Flexible V-shaped piezoelectric-triboelectric device for biomechanical energy harvesting and sensing. Journal Physics D: Applied Physics, 2022, 55, 365501.	1.3	16
12	Interplay between electrical and mechanical domains in a high performance nonlinear energy harvester. Smart Materials and Structures, 2015, 24, 122001.	1.8	15
13	Influence of combined fundamental potentials in a nonlinear vibration energy harvester. Scientific Reports, 2016, 6, 37292.	1.6	12
14	Magnetic performances and switching behavior of Co-rich CoPtP micro-magnets for applications in magnetic MEMS. Journal of Applied Physics, 2019, 125, .	1.1	10
15	Size-Dependent Magnetization Switching in Magnetoelectric Heterostructures for Self-Biased MRAM Applications. IEEE Transactions on Electron Devices, 2021, 68, 4418-4424.	1.6	10
16	Analysis of Nonlinear Spring Arm for Improved Performance of Vibrational Energy Harvesting Devices. Journal of Physics: Conference Series, 2013, 476, 012088.	0.3	8
17	Performance Improvement of MEMS Electromagnetic Vibration Energy Harvester Using Optimized Patterns of Micromagnet Arrays. IEEE Magnetics Letters, 2021, 12, 1-5.	0.6	8
18	Modelling and Verification of Nonlinear Electromechanical Coupling in Micro-Scale Kinetic Electromagnetic Energy Harvesters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 565-577.	3.5	7

#	Article	IF	Citations
19	Design and simulation of micro-pump, micro-valve and micro-needle for biomedical applications. , 2012, , .		6
20	Silicon MEMS bistable electromagnetic vibration energy harvester using double-layer micro-coils. Journal of Physics: Conference Series, 2015, 660, 012124.	0.3	6
21	Bandwidth widening in nonlinear electromagnetic vibrational generator by combined effect of bistability and stretching. Journal of Physics: Conference Series, 2014, 557, 012039.	0.3	3
22	System Level Modeling and Optimization of Hybrid Vibration Energy Harvesters. , 2020, , .		3
23	Design and simulation of MEMS based thermally actuated positioning system. , 2012, , .		2
24	An Electrically Tunable Low Frequency Electromagnetic Energy Harvester. Procedia Engineering, 2014, 87, 771-774.	1.2	2
25	Wideband electromagnetic energy harvesting from ambient vibrations. AIP Conference Proceedings, 2015, , .	0.3	2
26	Texture analysis of thick bismuth ferrite lead titanate layers. , 2014, , .		1
27	Novel Approach to Modelling Electromechanical Coupling and Testing its Self-Consistency in Micro-Scale Kinetic Electromagnetic Energy Harvesters. , 2018, , .		1
28	Improved Performances of Wideband MEMS Electromagnetic Vibration Energy Harvesters using Patterned Micro-magnet Arrays. , 2019, , .		1
29	Electrical Energy Injection using Hybrid SECE for High Performance Nonlinear Mechanical Energy Harvesting. , 2021, , .		1
30	Integrated CoPtP Permanent Magnets for MEMS Electromagnetic Energy Harvesting Applications. Journal of Physics: Conference Series, 2016, 757, 012034.	0.3	0
31	Development and integration of micro-patterned, thick CoPtP permanent magnets for MEMS applications. , 2017, , .		0
32	Improved Performances of Micro-electromagnetic Energy Harvesting Devices by Minimizing the Demagnetization Field. , 2018, , .		0
33	Design Optimization of Fully Integrated, MEMS Electromagnetic Energy Harvesting Devices using Patterned Micro-magnet Arrays. , 2018, , .		0
34	Crystallographic and magnetic investigations of textured bismuth ferrite lead titanate layers. Materials Research Express, 2018, 5, 126103.	0.8	0
35	Modelling of Electromagnetic Coupling in Micro-scale Electromagnetic Energy Harvester. , 2019, , .		0
36	Optimization of ZnO/Su-8 Based Photopatternable, Piezoelectric Nano-Composites for Mechanical Energy Harvesting Applications. , 2021, , .		0