

Dhiman Mallick

List of Publications by Year in descending order

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36
papers

472
citations

758635

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676716

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docs citations

37
times ranked

379
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Flexible V-shaped piezoelectric-triboelectric device for biomechanical energy harvesting and sensing. Journal Physics D: Applied Physics, 2022, 55, 365501. | 1.3 | 16 |
| 2 | Performance Improvement of MEMS Electromagnetic Vibration Energy Harvester Using Optimized Patterns of Micromagnet Arrays. IEEE Magnetics Letters, 2021, 12, 1-5. | 0.6 | 8 |
| 3 | Low-Cost, High-Performance Piezoelectric Nanocomposite for Mechanical Energy Harvesting. IEEE Sensors Journal, 2021, 21, 21268-21276. | 2.4 | 16 |
| 4 | Optimization of ZnO/Su-8 Based Photopatternable, Piezoelectric Nano-Composites for Mechanical Energy Harvesting Applications. , 2021, , . | | 0 |
| 5 | Electrical Energy Injection using Hybrid SECE for High Performance Nonlinear Mechanical Energy Harvesting. , 2021, , . | | 1 |
| 6 | Size-Dependent Magnetization Switching in Magnetoelectric Heterostructures for Self-Biased MRAM Applications. IEEE Transactions on Electron Devices, 2021, 68, 4418-4424. | 1.6 | 10 |
| 7 | 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 |
| 8 | System Level Modeling and Optimization of Hybrid Vibration Energy Harvesters. , 2020, , . | | 3 |
| 9 | Modelling of Electromagnetic Coupling in Micro-scale Electromagnetic Energy Harvester. , 2019, , . | | 0 |
| 10 | 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 |
| 11 | MEMS-Based Vibrational Energy Harvesting and Conversion Employing Micro-/Nano-Magnetics. IEEE Transactions on Magnetics, 2019, 55, 1-15. | 1.2 | 23 |
| 12 | Improved Performances of Wideband MEMS Electromagnetic Vibration Energy Harvesters using Patterned Micro-magnet Arrays. , 2019, , . | | 1 |
| 13 | 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 |
| 14 | Improved Performances of Micro-electromagnetic Energy Harvesting Devices by Minimizing the Demagnetization Field. , 2018, , . | | 0 |
| 15 | Design Optimization of Fully Integrated, MEMS Electromagnetic Energy Harvesting Devices using Patterned Micro-magnet Arrays. , 2018, , . | | 0 |
| 16 | Novel Approach to Modelling Electromechanical Coupling and Testing its Self-Consistency in Micro-Scale Kinetic Electromagnetic Energy Harvesters. , 2018, , . | | 1 |
| 17 | Crystallographic and magnetic investigations of textured bismuth ferrite lead titanate layers. Materials Research Express, 2018, 5, 126103. | 0.8 | 0 |
| 18 | Magnetic Tuning of Nonlinear MEMS Electromagnetic Vibration Energy Harvester. Journal of Microelectromechanical Systems, 2017, 26, 539-549. | 1.7 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | High Figure of Merit Nonlinear Microelectromagnetic Energy Harvesters for Wideband Applications. Journal of Microelectromechanical Systems, 2017, 26, 273-282. | 1.7 | 29 |
| 20 | Multi-frequency MEMS electromagnetic energy harvesting. Sensors and Actuators A: Physical, 2017, 264, 247-259. | 2.0 | 27 |
| 21 | Development and integration of micro-patterned, thick CoPtP permanent magnets for MEMS applications. , 2017, , . | | 0 |
| 22 | Influence of combined fundamental potentials in a nonlinear vibration energy harvester. Scientific Reports, 2016, 6, 37292. | 1.6 | 12 |
| 23 | Surfing the High Energy Output Branch of Nonlinear Energy Harvesters. Physical Review Letters, 2016, 117, 197701. | 2.9 | 83 |
| 24 | Integrated CoPtP Permanent Magnets for MEMS Electromagnetic Energy Harvesting Applications. Journal of Physics: Conference Series, 2016, 757, 012034. | 0.3 | 0 |
| 25 | Nonlinear Energy Harvesting Using Electromagnetic Transduction for Wide Bandwidth. IEEE Magnetics Letters, 2016, 7, 1-4. | 0.6 | 19 |
| 26 | Wideband electromagnetic energy harvesting from ambient vibrations. AIP Conference Proceedings, 2015, , . | 0.3 | 2 |
| 27 | Silicon MEMS bistable electromagnetic vibration energy harvester using double-layer micro-coils. Journal of Physics: Conference Series, 2015, 660, 012124. | 0.3 | 6 |
| 28 | Interplay between electrical and mechanical domains in a high performance nonlinear energy harvester. Smart Materials and Structures, 2015, 24, 122001. | 1.8 | 15 |
| 29 | A nonlinear stretching based electromagnetic energy harvester on FR4 for wideband operation. Smart Materials and Structures, 2015, 24, 015013. | 1.8 | 68 |
| 30 | Bidirectional electrical tuning of FR4 based electromagnetic energy harvesters. Sensors and Actuators A: Physical, 2015, 226, 154-162. | 2.0 | 25 |
| 31 | Texture analysis of thick bismuth ferrite lead titanate layers. , 2014, , . | | 1 |
| 32 | 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 |
| 33 | An Electrically Tunable Low Frequency Electromagnetic Energy Harvester. Procedia Engineering, 2014, 87, 771-774. | 1.2 | 2 |
| 34 | Analysis of Nonlinear Spring Arm for Improved Performance of Vibrational Energy Harvesting Devices. Journal of Physics: Conference Series, 2013, 476, 012088. | 0.3 | 8 |
| 35 | Design and simulation of micro-pump, micro-valve and micro-needle for biomedical applications. , 2012, , . | | 6 |
| 36 | Design and simulation of MEMS based thermally actuated positioning system. , 2012, , . | | 2 |