

Ã-zge Zorlu

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

620
citations

933447

10
h-index

752698

20
g-index

42
all docs

42
docs citations

42
times ranked

656
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Novel Microfluidic Method Utilizing a Hydrofoil Structure to Improve Circulating Tumor Cell Enrichment: Design and Analytical Validation. Micromachines, 2020, 11, 981. | 2.9 | 4 |
| 2 | Enhancement of the Start-Up Time for Microliter-Scale Microbial Fuel Cells (μ MFCs) via the Surface Modification of Gold Electrodes. Micromachines, 2020, 11, 703. | 2.9 | 3 |
| 3 | Optimization of AA-Battery Sized Electromagnetic Energy Harvesters: Reducing the Resonance Frequency Using a Non-Magnetic Inertial Mass. IEEE Sensors Journal, 2018, 18, 4509-4516. | 4.7 | 14 |
| 4 | A second harmonic based resonance characterization method for MEMS electrostatic resonators. Sensors and Actuators A: Physical, 2018, 274, 220-230. | 4.1 | 5 |
| 5 | WirelessEnergySim: A Discrete Event Simulator for an Energy-Neutral Operation of IoT Nodes. , 2018, , . | | 2 |
| 6 | Highly Integrated 3 V Supply Electronics for Electromagnetic Energy Harvesters With Minimum 0.4 V P_{peak} Input. IEEE Transactions on Industrial Electronics, 2017, 64, 5460-5467. | 7.9 | 16 |
| 7 | Threshold Compensated UHF Rectifier With Local Self-Calibrator. IEEE Microwave and Wireless Components Letters, 2017, 27, 575-577. | 3.2 | 12 |
| 8 | Analysis and Elimination of the Capacitive Feedthrough Current on Electrostatically Actuated and Sensed Resonance-Based MEMS Sensors. Journal of Microelectromechanical Systems, 2017, 26, 1272-1278. | 2.5 | 8 |
| 9 | A parylene bonding based fabrication method for gravimetric resonant based mass sensors. , 2017, , . | | 0 |
| 10 | An adaptable interface circuit for low power MEMS piezoelectric energy harvesters with multi-stage energy extraction. , 2017, , . | | 2 |
| 11 | Neural stimulation interface with ultra-low power signal conditioning circuit for fully-implantable cochlear implants. , 2017, , . | | 2 |
| 12 | Performance Enhancement Of Mems-Based Microbial Fuel Cells (μ MFC) For Microscale Power Generation. Journal of Physics: Conference Series, 2016, 773, 012018. | 0.4 | 1 |
| 13 | Modelling and efficiency optimisation of UHF Dickson rectifiers. IET Circuits, Devices and Systems, 2016, 10, 504-513. | 1.4 | 5 |
| 14 | Wearable battery-less wireless sensor network with electromagnetic energy harvesting system. Sensors and Actuators A: Physical, 2016, 249, 77-84. | 4.1 | 46 |
| 15 | Optimized Electromagnetic Harvester with a Non-Magnetic Inertial Mass. Procedia Engineering, 2015, 120, 337-340. | 1.2 | 8 |
| 16 | Stage optimization in regulated step-up for low voltage electromagnetic energy harvesters. , 2015, , . | | 1 |
| 17 | Auto-calibrating threshold compensation technique for RF energy harvesters. , 2015, , . | | 8 |
| 18 | A Fully Integrated and Battery-Free Interface for Low-Voltage Electromagnetic Energy Harvesters. IEEE Transactions on Power Electronics, 2015, 30, 3712-3719. | 7.9 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Reconfigurable Nested Ring-Split Ring Transmitarray Unit Cell Employing the Element Rotation Method by Microfluidics. IEEE Transactions on Antennas and Propagation, 2015, 63, 1163-1167. | 5.1 | 43 |
| 20 | A self-powered and efficient rectifier for electromagnetic energy harvesters. , 2014, , . | | 3 |
| 21 | Powering-up Wireless Sensor Nodes Utilizing Rechargeable Batteries and an Electromagnetic Vibration Energy Harvesting System. Energies, 2014, 7, 6323-6339. | 3.1 | 26 |
| 22 | A reconfigurable nested ring-split ring transmitarray unit cell by microfluidic technology. , 2014, , . | | 4 |
| 23 | Microfluidic reconfigurable nested split ring-regular ring transmitarray unit cell. , 2014, , . | | 0 |
| 24 | A parylene coating based room temperature wafer-level attachment method for MEMS integration with zero applied force. Sensors and Actuators A: Physical, 2014, 215, 1-7. | 4.1 | 1 |
| 25 | A MEMS-based energy harvester for generating energy from non-resonant environmental vibrations. Sensors and Actuators A: Physical, 2013, 202, 124-134. | 4.1 | 36 |
| 26 | A room temperature, zero force, wafer-level attachment method for MEMS integration. , 2013, , . | | 1 |
| 27 | An electromagnetic energy harvester for low frequency and low-g vibrations with a modified frequency up conversion method. , 2013, , . | | 10 |
| 28 | A 180 nm self-powered rectifier circuit for electromagnetic energy harvesters. , 2013, , . | | 0 |
| 29 | Stimulating auditory nerve with MEMS harvesters for fully implantable and self-powered cochlear implants. , 2013, , . | | 18 |
| 30 | An efficient integrated interface electronics for electromagnetic energy harvesting from low voltage sources. , 2013, , . | | 7 |
| 31 | Fully Self-Powered Electromagnetic Energy Harvesting System With Highly Efficient Dual Rail Output. IEEE Sensors Journal, 2012, 12, 2287-2298. | 4.7 | 66 |
| 32 | A self-powered rectifier circuit for low-voltage energy harvesting applications. , 2012, , . | | 3 |
| 33 | A Miniature and Non-Resonant Vibration-based Energy Harvester Structure. Procedia Engineering, 2012, 47, 664-667. | 1.2 | 5 |
| 34 | An electromagnetic energy harvesting system for low frequency applications with a passive interface ASIC in standard CMOS. Sensors and Actuators A: Physical, 2012, 188, 158-166. | 4.1 | 38 |
| 35 | A fully integrated power management circuit for electromagnetic energy harvesting applications. , 2012, , . | | 1 |
| 36 | A vibration-based electromagnetic energy harvester system with highly efficient interface electronics. , 2011, , . | | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Hybrid energy harvesting from keyboard. , 2011, , . | | 8 |
| 38 | A Vibration-Based Electromagnetic Energy Harvester Using Mechanical Frequency Up-Conversion Method. IEEE Sensors Journal, 2011, 11, 481-488. | 4.7 | 156 |
| 39 | A Cr-Ni thermoelectric MEMS energy harvester for low profile applications. , 2011, , . | | 4 |
| 40 | An interface circuit prototype for a vibration-based electromagnetic energy harvester. , 2010, , . | | 7 |
| 41 | A mechanical frequency up-conversion mechanism for vibration based energy harvesters. , 2009, , . | | 6 |