## Jianxiong Zhu

List of Publications by Year in descending order

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Ιμαινίονς Ζημ

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Progress in wearable electronics/photonics—Moving toward the era of artificial intelligence and internet of things. InformaÄnÃ-Materiály, 2020, 2, 1131-1162.   | 17.3 | 343       |
| 2  | Development Trends and Perspectives of Future Sensors and MEMS/NEMS. Micromachines, 2020, 11, 7.  | 2.9  | 216       |
| 3  | Deep learning-enabled triboelectric smart socks for IoT-based gait analysis and VR applications. Npj<br>Flexible Electronics, 2020, 4, .  | 10.7 | 213       |
| 4  | Progress in <scp>TENG</scp> technology—A journey from energy harvesting to nanoenergy and nanosystem. EcoMat, 2020, 2, e12058.  | 11.9 | 194       |
| 5  | Flexible, Stretchable, and Transparent Planar Microsupercapacitors Based on 3D Porous Laserâ€Induced<br>Graphene. Small, 2018, 14, 1702249.   | 10.0 | 179       |
| 6  | Silicone-Based Triboelectric Nanogenerator for Water Wave Energy Harvesting. ACS Applied Materials<br>& Interfaces, 2018, 10, 3616-3623.  | 8.0  | 98        |
| 7  | Toward Healthcare Diagnoses by Machine-Learning-Enabled Volatile Organic Compound Identification.<br>ACS Nano, 2021, 15, 894-903.   | 14.6 | 81        |
| 8  | Machine learning-enabled textile-based graphene gas sensing with energy harvesting-assisted IoT<br>application. Nano Energy, 2021, 86, 106035.  | 16.0 | 70        |
| 9  | Biomimetic Turbinate-like Artificial Nose for Hydrogen Detection Based on 3D Porous Laser-Induced<br>Graphene. ACS Applied Materials & Interfaces, 2019, 11, 24386-24394.   | 8.0  | 64        |
| 10 | Continuous direct current by charge transportation for next-generation IoT and real-time virtual reality applications. Nano Energy, 2020, 73, 104760.   | 16.0 | 61        |
| 11 | A Hybrid Piezoelectric and Triboelectric Nanogenerator with PVDF Nanoparticles and Leafâ€Shaped<br>Microstructure PTFE Film for Scavenging Mechanical Energy. Advanced Materials Interfaces, 2018, 5,<br>1700750.                 | 3.7  | 52        |
| 12 | Volatile organic compounds sensing based on Bennet doubler-inspired triboelectric nanogenerator and machine learning-assisted ion mobility analysis. Science Bulletin, 2021, 66, 1176-1185.                                       | 9.0  | 50        |
| 13 | Electrospinning poly(l-lactic acid) piezoelectric ordered porous nanofibers for strain sensing and energy harvesting. Journal of Materials Science: Materials in Electronics, 2017, 28, 12080-12085.                              | 2.2  | 48        |
| 14 | Programmed-triboelectric nanogenerators—A multi-switch regulation methodology for energy manipulation. Nano Energy, 2020, 78, 105241.   | 16.0 | 42        |
| 15 | A flexible comb electrode triboelectric–electret nanogenerator with separated microfibers for a self-powered position, motion direction and acceleration tracking sensor. Journal of Materials Chemistry A, 2018, 6, 16548-16555. | 10.3 | 39        |
| 16 | Half-Pipe Palladium Nanotube-Based Hydrogen Sensor Using a Suspended Nanofiber Scaffold. ACS<br>Applied Materials & Interfaces, 2019, 11, 13343-13349.  | 8.0  | 38        |
| 17 | Zinc Oxide-Enhanced Piezoelectret Polypropylene Microfiber for Mechanical Energy Harvesting. ACS<br>Applied Materials & Interfaces, 2018, 10, 19940-19947.  | 8.0  | 34        |
| 18 | Hybrid Electromagnetic and Triboelectric Nanogenerators with Multi-Impact for Wideband Frequency<br>Energy Harvesting. Energies, 2017, 10, 2024.  | 3.1  | 31        |

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|----|--|-----|-----------|
| 19 | Enhanced in-vitro osteoblastic functions on β-type titanium alloy using surface mechanical attrition treatment. Materials Science and Engineering C, 2019, 97, 688-697.  | 7.3 | 27        |
| 20 | A High-Response Electrochemical As(III) Sensor Using Fe3O4–rGO Nanocomposite Materials.<br>Chemosensors, 2021, 9, 150.   | 3.6 | 22        |
| 21 | A flexible multi-layer electret nanogenerator for bending deformation energy harvesting and strain sensing. Materials Research Bulletin, 2018, 102, 130-136.   | 5.2 | 20        |
| 22 | Advances in Electrochemical Detection Electrodes for As(III). Nanomaterials, 2022, 12, 781.  | 4.1 | 17        |
| 23 | Dynamic phenomena and analysis of MEMS capacitive power harvester subjected to low-frequency excitations. Nonlinear Dynamics, 2015, 79, 673-688.   | 5.2 | 14        |
| 24 | Cost-effective fabrication and high-frequency response of non-ideal RC application based on 3D porous laser-induced graphene. Journal of Materials Science, 2018, 53, 12413-12420.   | 3.7 | 13        |
| 25 | A hybrid electromagnetic and leaf-shaped polytetrafluoroethylene triboelectric with an arc-shaped brace structure for energy harvesting. RSC Advances, 2017, 7, 49562-49567.   | 3.6 | 12        |
| 26 | Singleâ€Electrode, Nylonâ€Fiberâ€Enhanced Polytetrafluoroethylene Electret Film with Hollow Cylinder<br>Structure for Mechanical Energy Harvesting. Energy Technology, 2018, 6, 1112-1118.   | 3.8 | 12        |
| 27 | High performance lithium-sulfur batteries for storing pulsed energy generated by triboelectric nanogenerators. Scientific Reports, 2017, 7, 425.   | 3.3 | 11        |
| 28 | A flexible piezoresistive carbon black network in silicone rubber for wide range deformation and strain sensing. Journal of Applied Physics, 2018, 123, 034505.  | 2.5 | 11        |
| 29 | Modulated Pencil-Drawn U-Shaped Piezoresistive Graphite on Compound Fibers for Wind Sensing.<br>Journal of Electronic Materials, 2018, 47, 6518-6524.  | 2.2 | 9         |
| 30 | Two-cavity MEMS variable capacitor for power harvesting. Journal of Micromechanics and Microengineering, 2012, 22, 065003.   | 2.6 | 7         |
| 31 | Surface Micromachined MEMS Capacitors With Dual Cavity for Energy Harvesting. Journal of Microelectromechanical Systems, 2013, 22, 1458-1469.  | 2.5 | 7         |
| 32 | Spectrum Analysis Enabled Periodic Feature Reconstruction Based Automatic Defect Detection System for Electroluminescence Images of Photovoltaic Modules. Micromachines, 2022, 13, 332.  | 2.9 | 7         |
| 33 | Proximity sensing of electrostatic induction electret nanoparticles device using separation electrode. AIP Advances, 2017, 7, .  | 1.3 | 6         |
| 34 | Power generation from microfluidic drops using inorganic silicon dioxide electret film. Micro and Nano Letters, 2018, 13, 1421-1424.   | 1.3 | 5         |
| 35 | Numerical modeling of dynamic response of miniature multi-impact electromagnetic device for low and wide range frequencies energy harvesting. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 2400-2409. | 2.1 | 5         |
| 36 | Carbon black-reinforced 3D and 4D printable conductive polymer composites. , 2020, , 367-385.  |     | 5         |

Carbon black-reinforced 3D and 4D printable conductive polymer composites. , 2020, , 367-385. 36

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Artificial Intelligence of Manufacturing Robotics Health Monitoring System by Semantic Modeling.<br>Micromachines, 2022, 13, 300.   | 2.9 | 5         |
| 38 | Suspended polytetrafluoroethylene nanostructure electret film in dual variable cavities for self-powered micro-shock sensing. Materials Research Express, 2018, 5, 046305.                | 1.6 | 4         |
| 39 | Different Microtubule Structures Assembled by Kinesin Motors. Langmuir, 2018, 34, 9768-9773.  | 3.5 | 4         |
| 40 | Bilateral multi-impact oscillators for cantilever energy harvesting enhancement. International<br>Journal of Green Energy, 2022, 19, 521-528.   | 3.8 | 4         |
| 41 | Miniature and tunable high voltage-driven soft electroactive biconvex lenses for optical visual identification. Journal of Micromechanics and Microengineering, 2022, 32, 064004.         | 2.6 | 4         |
| 42 | MEMS fabrication and frequency sweep for suspending beam and plate electrode in electrostatic capacitor. Solid-State Electronics, 2018, 139, 94-100.                                      | 1.4 | 3         |
| 43 | Design and fabrication of 3D flexible thermoelectric energy generator using chemical vapor deposition method based on paper substrate. , 2018, , .  |     | 3         |
| 44 | Dynamic Study of MEMS Variable Capacitive Device for Power Harvesting. , 2012, , .  |     | 2         |
| 45 | Asymmetric disappearance and periodic asymmetric phenomena of rocking dynamics in micro dual-capacitive energy harvester. AIP Conference Proceedings, 2018, , .                           | 0.4 | 2         |
| 46 | Symmetry and asymmetry from MEMS variable capacitor by nonlinear micro stoppers. Mechanics and Industry, 2021, 22, 41.  | 1.3 | 2         |
| 47 | A bottomâ€up optimization method for inverse design of twoâ€dimensional clampedâ€free elastic rods.<br>International Journal for Numerical Methods in Engineering, 2022, 123, 2556-2572.  | 2.8 | 2         |
| 48 | MEMS capacitors with dual cavity for power harvesting. Proceedings of SPIE, 2012, , .   | 0.8 | 1         |
| 49 | Two-cavity MEMS capacitive power scavenger. Proceedings of SPIE, 2012, , .  | 0.8 | 1         |
| 50 | Bulk silicon micromachined suspended fixed-end SiO2 film capacitor for passive high-pass RC filter.<br>Microsystem Technologies, 2018, 24, 929-934.                                       | 2.0 | 1         |
| 51 | Feasibility Study of High-Voltage Ion Mobility for Gas Identification Based on Triboelectric Power Source. , 2019, , .  |     | 1         |
| 52 | Half-Pipe Palladium Nanotube Network Hydrogen Sensor Based on Electrospun Nanofiber Scaffolds. ,<br>2019, , .   |     | 1         |
| 53 | Numerical Modeling of Electromagnetic and Multi-point Impacts Stoppers Coupling for Low<br>Frequency Energy Harvesting. DEStech Transactions on Computer Science and Engineering, 2017, , | 0.1 | 0         |
| 54 | A Study on the Strategy of Developing New Agricultural Management Business Entity in North-west   |     | 0         |

Poverty-stricken Area., 2018,,.

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