

Ruiyuan Liu

List of Publications by Year in descending order

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14
papers

3,026
citations

623734

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1058476

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docs citations

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times ranked

4195
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Micro-cable structured textile for simultaneously harvesting solar and mechanical energy. <i>Nature Energy</i> , 2016, 1, . | 39.5 | 879 |
| 2 | Electric Eelâ€‘Skinâ€‘Inspired Mechanically Durable and Superâ€‘Stretchable Nanogenerator for Deformable Power Source and Fully Autonomous Conformable Electronicâ€‘Skin Applications. <i>Advanced Materials</i> , 2016, 28, 10024-10032. | 21.0 | 273 |
| 3 | Vitrimer Elastomerâ€‘Based Jigsaw Puzzleâ€‘Like Healable Triboelectric Nanogenerator for Selfâ€‘Powered Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1705918. | 21.0 | 265 |
| 4 | Actively Perceiving and Responsive Soft Robots Enabled by Selfâ€‘Powered, Highly Extensible, and Highly Sensitive Triboelectric Proximityâ€‘and Pressureâ€‘Sensing Skins. <i>Advanced Materials</i> , 2018, 30, e1801114. | 21.0 | 254 |
| 5 | Shape Memory Polymers for Body Motion Energy Harvesting and Selfâ€‘Powered Mechanosensing. <i>Advanced Materials</i> , 2018, 30, 1705195. | 21.0 | 249 |
| 6 | Selfâ€‘Powered Si/CdS Flexible Photodetector with Broadband Response from 325 to 1550 nm Based on Pyroâ€‘phototronic Effect: An Approach for Photosensing below Bandgap Energy. <i>Advanced Materials</i> , 2018, 30, 1705893. | 21.0 | 163 |
| 7 | Flexible self-charging power sources. <i>Nature Reviews Materials</i> , 2022, 7, 870-886. | 48.7 | 159 |
| 8 | Auxetic Foamâ€‘Based Contactâ€‘Mode Triboelectric Nanogenerator with Highly Sensitive Selfâ€‘Powered Strain Sensing Capabilities to Monitor Human Body Movement. <i>Advanced Functional Materials</i> , 2017, 27, 1606695. | 14.9 | 156 |
| 9 | Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5%. <i>Nano Letters</i> , 2017, 17, 4240-4247. | 9.1 | 149 |
| 10 | Light-Triggered Pyroelectric Nanogenerator Based on a pn-Junction for Self-Powered Near-Infrared Photosensing. <i>ACS Nano</i> , 2017, 11, 8339-8345. | 14.6 | 147 |
| 11 | A Selfâ€‘Powered Dynamic Displacement Monitoring System Based on Triboelectric Accelerometer. <i>Advanced Energy Materials</i> , 2017, 7, 1700565. | 19.5 | 117 |
| 12 | Complementary Electromagneticâ€‘Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. <i>Advanced Functional Materials</i> , 2018, 28, 1705808. | 14.9 | 87 |
| 13 | Piezoâ€‘Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Visâ€‘NIR Broadband Photodiode. <i>Advanced Materials</i> , 2017, 29, 1701412. | 21.0 | 82 |
| 14 | An Efficient Ultraâ€‘Flexible Photoâ€‘Charging System Integrating Organic Photovoltaics and Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2000523. | 19.5 | 46 |