

Haotian Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

2,107
citations

25
h-index

45
g-index

47
ext. papers

2,528
ext. citations

11.7
avg, IF

5.19
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 43 | Soft HumanMachine Interface with Triboelectric Patterns and Archimedes Spiral Electrodes for Enhanced Motion Detection. <i>Advanced Functional Materials</i> , 2021 , 31, 2103075 | 15.6 | 6 |
| 42 | Electronic Skins for Healthcare Monitoring and Smart Prostheses. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021 , 4, 629-650 | 11.8 | 3 |
| 41 | Conductive composite-based tactile sensor 2021 , 67-90 | | |
| 40 | Microscale Liquid Metal Conductors for Stretchable and Transparent Electronics. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100690 | 6.8 | 4 |
| 39 | Self-Powered Multifunctional Electronic Skin for a Smart Anti-Counterfeiting Signature System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22357-22364 | 9.5 | 27 |
| 38 | Localized modulus-controlled PDMS substrate for 2D and 3D stretchable electronics. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 045001 | 2 | 2 |
| 37 | Development and Evaluation of a Sensor Glove to Detect Grasp Intention for a Wearable Robotic Hand Exoskeleton 2020 , | | 3 |
| 36 | Skin-Inspired Humidity and Pressure Sensor with a Wrinkle-on-Sponge Structure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39219-39227 | 9.5 | 49 |
| 35 | Power management and effective energy storage of pulsed output from triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 61, 517-532 | 17.1 | 88 |
| 34 | Flexible and Stretchable Devices from Other Materials 2019 , 183-202 | | 1 |
| 33 | Self-powered electronic skin based on the triboelectric generator. <i>Nano Energy</i> , 2019 , 56, 252-268 | 17.1 | 147 |
| 32 | Self-powered digital-analog hybrid electronic skin for noncontact displacement sensing. <i>Nano Energy</i> , 2019 , 58, 121-129 | 17.1 | 30 |
| 31 | High-efficiency self-charging smart bracelet for portable electronics. <i>Nano Energy</i> , 2019 , 55, 29-36 | 17.1 | 74 |
| 30 | Hybrid generator based on freestanding magnet as all-direction in-plane energy harvester and vibration sensor. <i>Nano Energy</i> , 2018 , 49, 51-58 | 17.1 | 47 |
| 29 | All-in-one piezoresistive-sensing patch integrated with micro-supercapacitor. <i>Nano Energy</i> , 2018 , 53, 189-197 | 17.1 | 54 |
| 28 | Self-Powered Noncontact Electronic Skin for Motion Sensing. <i>Advanced Functional Materials</i> , 2018 , 28, 1704641 | 15.6 | 63 |
| 27 | Fabrication of controlled hierarchical wrinkle structures on polydimethylsiloxane via one-step C4F8plasma treatment. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 015007 | 2 | 7 |

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|----|---|------|-----|
| 26 | Waterproof and stretchable triboelectric nanogenerator for biomechanical energy harvesting and self-powered sensing. <i>Applied Physics Letters</i> , 2018 , 112, 203902 | 3.4 | 45 |
| 25 | Hybrid porous micro structured finger skin inspired self-powered electronic skin system for pressure sensing and sliding detection. <i>Nano Energy</i> , 2018 , 51, 496-503 | 17.1 | 91 |
| 24 | Controlled fabrication of nanoscale wrinkle structure by fluorocarbon plasma for highly transparent triboelectric nanogenerator. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 16074 | 7.7 | 41 |
| 23 | Triboelectrification based active sensor for liquid flow and bubble detecting 2017 , | | 1 |
| 22 | Stretchable, transparent and wearable sensor for multifunctional smart skins 2017 , | | 1 |
| 21 | Bioinspired microporous elastomer with enhanced and tunable stretchability for strain sensing device 2017 , | | 1 |
| 20 | An ultrathin stretchable triboelectric nanogenerator with coplanar electrode for energy harvesting and gesture sensing. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12361-12368 | 13 | 59 |
| 19 | Flexible fiber-based hybrid nanogenerator for biomechanical energy harvesting and physiological monitoring. <i>Nano Energy</i> , 2017 , 38, 43-50 | 17.1 | 162 |
| 18 | High efficiency power management and charge boosting strategy for a triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 38, 438-446 | 17.1 | 127 |
| 17 | Omnidirectional Bending and Pressure Sensor Based on Stretchable CNT-PU Sponge. <i>Advanced Functional Materials</i> , 2017 , 27, 1604434 | 15.6 | 106 |
| 16 | A wave-shaped hybrid piezoelectric and triboelectric nanogenerator based on P(VDF-TrFE) nanofibers. <i>Nanoscale</i> , 2017 , 9, 1263-1270 | 7.7 | 90 |
| 15 | Digitalized self-powered strain gauge for static and dynamic measurement. <i>Nano Energy</i> , 2017 , 42, 129-137 | 13.7 | 22 |
| 14 | Microsphere-Assisted Robust Epidermal Strain Gauge for Static and Dynamic Gesture Recognition. <i>Small</i> , 2017 , 13, 1702108 | 11 | 16 |
| 13 | Fingertip-inspired electronic skin based on triboelectric sliding sensing and porous piezoresistive pressure detection. <i>Nano Energy</i> , 2017 , 40, 65-72 | 17.1 | 84 |
| 12 | All-fabric-based wearable self-charging power cloth. <i>Applied Physics Letters</i> , 2017 , 111, 073901 | 3.4 | 49 |
| 11 | Highly Compressible Integrated Supercapacitor-Piezoresistance-Sensor System with CNT-PDMS Sponge for Health Monitoring. <i>Small</i> , 2017 , 13, 1702091 | 11 | 181 |
| 10 | Integrated self-charging power unit with flexible supercapacitor and triboelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14298-14306 | 13 | 91 |
| 9 | Self-Powered Analogue Smart Skin. <i>ACS Nano</i> , 2016 , 10, 4083-91 | 16.7 | 133 |

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|---|--|------|-----|
| 8 | A flexible and wearable generator with fluorocarbon plasma induced wrinkle structure 2016 , | | 3 |
| 7 | Asymmetrical Triboelectric Nanogenerator with Controllable Direct Electrostatic Discharge. <i>Advanced Functional Materials</i> , 2016 , 26, 5524-5533 | 15.6 | 34 |
| 6 | Single-Step Fluorocarbon Plasma Treatment-Induced Wrinkle Structure for High-Performance Triboelectric Nanogenerator. <i>Small</i> , 2016 , 12, 229-36 | 11 | 106 |
| 5 | Ultra-sensitive transparent and stretchable pressure sensor with single electrode 2016 , | | 5 |
| 4 | Highly compression-tolerant folded carbon nanotube/paper as solid-state supercapacitor electrode. <i>Micro and Nano Letters</i> , 2016 , 11, 586-590 | 0.9 | 9 |
| 3 | A high-efficiency transparent electrification-based generator for harvesting droplet energy 2015 , | | 5 |
| 2 | Electrification based devices with encapsulated liquid for energy harvesting, multifunctional sensing, and self-powered visualized detection. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7382-7388 | 13 | 36 |
| 1 | Jagged discharge electrodes powered by triboelectric generator. <i>Micro and Nano Letters</i> , 2015 , 10, 537-540 | 5.9 | 2 |