

Haotian Chen

List of Publications by Citations

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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	Highly Compressible Integrated Supercapacitor-Piezoresistance-Sensor System with CNT-PDMS Sponge for Health Monitoring. <i>Small</i> , 2017 , 13, 1702091	11	181
42	Flexible fiber-based hybrid nanogenerator for biomechanical energy harvesting and physiological monitoring. <i>Nano Energy</i> , 2017 , 38, 43-50	17.1	162
41	Self-powered electronic skin based on the triboelectric generator. <i>Nano Energy</i> , 2019 , 56, 252-268	17.1	147
40	Self-Powered Analogue Smart Skin. <i>ACS Nano</i> , 2016 , 10, 4083-91	16.7	133
39	High efficiency power management and charge boosting strategy for a triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 38, 438-446	17.1	127
38	Omnidirectional Bending and Pressure Sensor Based on Stretchable CNT-PU Sponge. <i>Advanced Functional Materials</i> , 2017 , 27, 1604434	15.6	106
37	Single-Step Fluorocarbon Plasma Treatment-Induced Wrinkle Structure for High-Performance Triboelectric Nanogenerator. <i>Small</i> , 2016 , 12, 229-36	11	106
36	Integrated self-charging power unit with flexible supercapacitor and triboelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14298-14306	13	91
35	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
34	A wave-shaped hybrid piezoelectric and triboelectric nanogenerator based on P(VDF-TrFE) nanofibers. <i>Nanoscale</i> , 2017 , 9, 1263-1270	7.7	90
33	Power management and effective energy storage of pulsed output from triboelectric nanogenerator. <i>Nano Energy</i> , 2019 , 61, 517-532	17.1	88
32	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
31	High-efficiency self-charging smart bracelet for portable electronics. <i>Nano Energy</i> , 2019 , 55, 29-36	17.1	74
30	Self-Powered Noncontact Electronic Skin for Motion Sensing. <i>Advanced Functional Materials</i> , 2018 , 28, 1704641	15.6	63
29	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
28	All-in-one piezoresistive-sensing patch integrated with micro-supercapacitor. <i>Nano Energy</i> , 2018 , 53, 189-197	17.1	54
27	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

26	All-fabric-based wearable self-charging power cloth. <i>Applied Physics Letters</i> , 2017 , 111, 073901	3.4	49
25	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
24	Waterproof and stretchable triboelectric nanogenerator for biomechanical energy harvesting and self-powered sensing. <i>Applied Physics Letters</i> , 2018 , 112, 203902	3.4	45
23	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
22	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
21	Asymmetrical Triboelectric Nanogenerator with Controllable Direct Electrostatic Discharge. <i>Advanced Functional Materials</i> , 2016 , 26, 5524-5533	15.6	34
20	Self-powered digital-analog hybrid electronic skin for noncontact displacement sensing. <i>Nano Energy</i> , 2019 , 58, 121-129	17.1	30
19	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
18	Digitalized self-powered strain gauge for static and dynamic measurement. <i>Nano Energy</i> , 2017 , 42, 129-137	17.1	22
17	Microsphere-Assisted Robust Epidermal Strain Gauge for Static and Dynamic Gesture Recognition. <i>Small</i> , 2017 , 13, 1702108	11	16
16	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
15	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
14	Soft Human-Machine Interface with Triboelectric Patterns and Archimedes Spiral Electrodes for Enhanced Motion Detection. <i>Advanced Functional Materials</i> , 2021 , 31, 2103075	15.6	6
13	A high-efficiency transparent electrification-based generator for harvesting droplet energy 2015 ,		5
12	Ultra-sensitive transparent and stretchable pressure sensor with single electrode 2016 ,		5
11	Microscale Liquid Metal Conductors for Stretchable and Transparent Electronics. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100690	6.8	4
10	A flexible and wearable generator with fluorocarbon plasma induced wrinkle structure 2016 ,		3
9	Development and Evaluation of a Sensor Glove to Detect Grasp Intention for a Wearable Robotic Hand Exoskeleton 2020 ,		3

8	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
7	Jagged discharge electrodes powered by triboelectric generator. <i>Micro and Nano Letters</i> , 2015 , 10, 537-540	5.9	2
6	Localized modulus-controlled PDMS substrate for 2D and 3D stretchable electronics. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 045001	2	2
5	Triboelectrification based active sensor for liquid flow and bubble detetecting 2017 ,		1
4	Stretchable, transparent and wearable sensor for multifunctional smart skins 2017 ,		1
3	Bioinspired microporous elastomer with enhanced and tunable stretchability for strain sensing device 2017 ,		1
2	Flexible and Stretchable Devices from Other Materials 2019 , 183-202		1
1	Conductive composite-based tactile sensor 2021 , 67-90		