

Changsheng Wu

List of Publications by Year in descending order

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53
papers

7,474
citations

66234

42
h-index

168136

53
g-index

53
all docs

53
docs citations

53
times ranked

6552
citing authors

#	ARTICLE	IF	CITATIONS
1	Implantable, wireless, self-fixing thermal sensors for continuous measurements of microvascular blood flow in flaps and organ grafts. <i>Biosensors and Bioelectronics</i> , 2022, 206, 114145.	5.3	18
2	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. <i>Science</i> , 2022, 376, 1006-1012.	6.0	90
3	Wireless implantable optical probe for continuous monitoring of oxygen saturation in flaps and organ grafts. <i>Nature Communications</i> , 2022, 13, .	5.8	22
4	Thermally switchable, crystallizable oil and silicone composite adhesives for skin-interfaced wearable devices. <i>Science Advances</i> , 2022, 8, .	4.7	27
5	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. <i>Science Advances</i> , 2021, 7, .	4.7	55
6	Bitter Flavored, Soft Composites for Wearables Designed to Reduce Risks of Choking in Infants. <i>Advanced Materials</i> , 2021, 33, e2103857.	11.1	17
7	Functionalized wood with tunable tribopolarity for efficient triboelectric nanogenerators. <i>Matter</i> , 2021, 4, 3049-3066.	5.0	66
8	Self-Powered Iontophoretic Transdermal Drug Delivery System Driven and Regulated by Biomechanical Motions. <i>Advanced Functional Materials</i> , 2020, 30, 1907378.	7.8	105
9	A wireless, skin-interfaced biosensor for cerebral hemodynamic monitoring in pediatric care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31674-31684.	3.3	55
10	Sustainable and Biodegradable Wood Sponge Piezoelectric Nanogenerator for Sensing and Energy Harvesting Applications. <i>ACS Nano</i> , 2020, 14, 14665-14674.	7.3	124
11	Sub-nanoliter metabolomics via mass spectrometry to characterize volume-limited samples. <i>Nature Communications</i> , 2020, 11, 5625.	5.8	39
12	Large-Area Triboelectric Nanogenerator Mass Spectrometry: Expanded Coverage, Double-Bond Pinpointing, and Supercharging. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 727-734.	1.2	10
13	Signal Output of Triboelectric Nanogenerator at Oil-Water-Solid Multiphase Interfaces and its Application for Dual-Signal Chemical Sensing. <i>Advanced Materials</i> , 2019, 31, e1902793.	11.1	120
14	Sunlight-Triggerable Transient Energy Harvester and Sensors Based on Triboelectric Nanogenerator Using Acid-Sensitive Poly(phthalaldehyde). <i>Advanced Electronic Materials</i> , 2019, 5, 1900725.	2.6	15
15	Contact-Electrification between Two Identical Materials: Curvature Effect. <i>ACS Nano</i> , 2019, 13, 2034-2041.	7.3	78
16	Ferroelectricity-Enhanced Piezophototronic Effect in 2D V-Doped ZnO Nanosheets. <i>Advanced Science</i> , 2019, 6, 1900314.	5.6	33
17	TriboPump: A Low-Cost, Hand-Powered Water Disinfection System. <i>Advanced Energy Materials</i> , 2019, 9, 1901320.	10.2	74
18	Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1901102.	7.8	59

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19	Rational Structure Optimized Hybrid Nanogenerator for Highly Efficient Water Wave Energy Harvesting. <i>Advanced Energy Materials</i> , 2019, 9, 1802892.	10.2	92
20	Human-Machine Interfacing Enabled by Triboelectric Nanogenerators and Tribotronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800487.	3.0	169
21	Triboelectric Nanogenerator: A Foundation of the Energy for the New Era. <i>Advanced Energy Materials</i> , 2019, 9, 1802906.	10.2	1,086
22	Concurrent Harvesting of Ambient Energy by Hybrid Nanogenerators for Wearable Self-Powered Systems and Active Remote Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14708-14715.	4.0	78
23	Field Emission of Electrons Powered by a Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2018, 28, 1800610.	7.8	44
24	Keystroke dynamics enabled authentication and identification using triboelectric nanogenerator array. <i>Materials Today</i> , 2018, 21, 216-222.	8.3	176
25	Self-Powered Si/CdS Flexible Photodetector with Broadband Response from 325 to 1550 nm Based on Pyro-phototronic Effect: An Approach for Photosensing below Bandgap Energy. <i>Advanced Materials</i> , 2018, 30, 1705893.	11.1	163
26	MXene electrochemical microsupercapacitor integrated with triboelectric nanogenerator as a wearable self-charging power unit. <i>Nano Energy</i> , 2018, 45, 266-272.	8.2	333
27	Self-Powered Wind Sensor System for Detecting Wind Speed and Direction Based on a Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 3954-3963.	7.3	224
28	Self-powered wireless optical transmission of mechanical agitation signals. <i>Nano Energy</i> , 2018, 47, 566-572.	8.2	66
29	Polymer nanogenerators: Opportunities and challenges for large-scale applications. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45674.	1.3	73
30	Enhanced performances of Si/CdS heterojunction near-infrared photodetector by the piezo-phototronic effect. <i>Nano Energy</i> , 2018, 44, 311-318.	8.2	54
31	Triboelectric microplasma powered by mechanical stimuli. <i>Nature Communications</i> , 2018, 9, 3733.	5.8	212
32	Pop-Up Conducting Large-Area Biographene Kirigami. <i>ACS Nano</i> , 2018, 12, 9714-9720.	7.3	27
33	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	7.3	109
34	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, .	9.9	573
35	Bioprinting: an assessment based on manufacturing readiness levels. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 333-354.	5.1	36
36	Nanogenerator-based dual-functional and self-powered thin patch loudspeaker or microphone for flexible electronics. <i>Nature Communications</i> , 2017, 8, 15310.	5.8	169

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37	Simultaneously Enhancing Light Emission and Suppressing Efficiency Droop in GaN Microwire-Based Ultraviolet Light-Emitting Diode by the Piezo-Phototronic Effect. <i>Nano Letters</i> , 2017, 17, 3718-3724.	4.5	55
38	Maximized Effective Energy Output of Contactâ€Separationâ€Triggered Triboelectric Nanogenerators as Limited by Air Breakdown. <i>Advanced Functional Materials</i> , 2017, 27, 1700049.	7.8	144
39	A Selfâ€Powered Dynamic Displacement Monitoring System Based on Triboelectric Accelerometer. <i>Advanced Energy Materials</i> , 2017, 7, 1700565.	10.2	117
40	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.	4.5	149
41	A spring-based resonance coupling for hugely enhancing the performance of triboelectric nanogenerators for harvesting low-frequency vibration energy. <i>Nano Energy</i> , 2017, 32, 287-293.	8.2	164
42	A Highly Stretchable Fiberâ€Based Triboelectric Nanogenerator for Selfâ€Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017, 27, 1604378.	7.8	296
43	Achieving ultrahigh triboelectric charge density for efficient energy harvesting. <i>Nature Communications</i> , 2017, 8, 88.	5.8	495
44	Largely Improved Near-Infrared Silicon-Photosensing by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2017, 11, 7118-7125.	7.3	57
45	Quantitative Prediction of Paravalvularâ€Leak in Transcatheter Aorticâ€Valve Replacement Based onâ€Tissue-Mimicking 3D Printing. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 719-731.	2.3	102
46	Piezoâ€Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Visâ€NIR Broadband Photodiode. <i>Advanced Materials</i> , 2017, 29, 1701412.	11.1	82
47	Selfâ€Powered Electrochemical Synthesis of Polypyrrole from the Pulsed Output of a Triboelectric Nanogenerator as a Sustainable Energy System. <i>Advanced Functional Materials</i> , 2016, 26, 3542-3548.	7.8	87
48	Paper-Based Triboelectric Nanogenerators Made of Stretchable Interlocking Kirigami Patterns. <i>ACS Nano</i> , 2016, 10, 4652-4659.	7.3	197
49	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.	11.1	273
50	Fully Packaged Blue Energy Harvester by Hybridizing a Rolling Triboelectric Nanogenerator and an Electromagnetic Generator. <i>ACS Nano</i> , 2016, 10, 11369-11376.	7.3	181
51	All-in-One Shape-Adaptive Self-Charging Power Package for Wearable Electronics. <i>ACS Nano</i> , 2016, 10, 10580-10588.	7.3	290
52	Dual-material 3D printed metamaterials with tunable mechanical properties for patient-specific tissue-mimicking phantoms. <i>Additive Manufacturing</i> , 2016, 12, 31-37.	1.7	71
53	A facile method for integrating direct-write devices into three-dimensional printed parts. <i>Smart Materials and Structures</i> , 2015, 24, 065008.	1.8	23