

Qiongfeng Shi

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.

76 papers	3,800 citations	38 h-index	61 g-index
88 ext. papers	5,456 ext. citations	11.5 avg, IF	6.41 L-index

#	Paper	IF	Citations
76	Biometrics-protected optical communication enabled by deep learning-enhanced triboelectric/photonic synergistic interface.. <i>Science Advances</i> , 2022 , 8, eabl9874	14.3	7
75	Constructing highly tribopositive elastic yarn through interfacial design and assembly for efficient energy harvesting and human-interactive sensing. <i>Nano Energy</i> , 2022 , 94, 106956	17.1	2
74	A humidity resistant and high performance triboelectric nanogenerator enabled by vortex-induced vibration for scavenging wind energy. <i>Nano Research</i> , 2022 , 15, 3246-3253	10	2
73	Noncontact Human-Machine Interface Using Complementary Information Fusion Based on MEMS and Triboelectric Sensors.. <i>Advanced Science</i> , 2022 , e2201056	13.6	4
72	Artificial Intelligence of Things (AIoT) Enabled Floor Monitoring System for Smart Home Applications. <i>ACS Nano</i> , 2021 ,	16.7	16
71	All in One, Self-Powered Bionic Artificial Nerve Based on a Triboelectric Nanogenerator. <i>Advanced Science</i> , 2021 , 8, 2004727	13.6	11
70	Artificial Intelligence of Things (AIoT) Enabled Virtual Shop Applications Using Self-Powered Sensor Enhanced Soft Robotic Manipulator. <i>Advanced Science</i> , 2021 , 8, e2100230	13.6	41
69	A hybridized electromagnetic-triboelectric nanogenerator designed for scavenging biomechanical energy in human balance control. <i>Nano Research</i> , 2021 , 14, 4227	10	13
68	Technology evolution from self-powered sensors to AIoT enabled smart homes. <i>Nano Energy</i> , 2021 , 79, 105414	17.1	77
67	Hybridized wearable patch as a multi-parameter and multi-functional human-machine interface. <i>Nano Energy</i> , 2021 , 81, 105582	17.1	36
66	Shadow enhanced self-charging power system for wave and solar energy harvesting from the ocean. <i>Nature Communications</i> , 2021 , 12, 616	17.4	23
65	Triboelectric Nanogenerators and Hybridized Systems for Enabling Next-Generation IoT Applications. <i>Research</i> , 2021 , 2021, 6849171	7.8	26
64	Technology evolution from micro-scale energy harvesters to nanogenerators. <i>Journal of Micromechanics and Microengineering</i> , 2021 , 31, 093002	2	25
63	Magnetic-interaction assisted hybridized triboelectric-electromagnetic nanogenerator for advanced human-machine interfaces. <i>Nano Energy</i> , 2021 , 86, 106154	17.1	15
62	Transferred Laser-Scribed Graphene-Based Durable and Permeable Strain Sensor. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100625	4.6	1
61	Artificial intelligence of toilet (AI-Toilet) for an integrated health monitoring system (IHMS) using smart triboelectric pressure sensors and image sensor. <i>Nano Energy</i> , 2021 , 90, 106517	17.1	12
60	Haptic-feedback smart glove as a creative human-machine interface (HMI) for virtual/augmented reality applications. <i>Science Advances</i> , 2020 , 6, eaaz8693	14.3	177

59	Wearable Triboelectric-Human-Machine Interface (THMI) Using Robust Nanophotonic Readout. <i>ACS Nano</i> , 2020 , 14, 8915-8930	16.7	63
58	Wearable Triboelectric/Aluminum Nitride Nano-Energy-Nano-System with Self-Sustainable Photonic Modulation and Continuous Force Sensing. <i>Advanced Science</i> , 2020 , 7, 1903636	13.6	38
57	Machine Learning Glove Using Self-Powered Conductive Superhydrophobic Triboelectric Textile for Gesture Recognition in VR/AR Applications. <i>Advanced Science</i> , 2020 , 7, 2000261	13.6	127
56	Inkjet 3D Printed MEMS Vibrational Electromagnetic Energy Harvester. <i>Energies</i> , 2020 , 13, 2800	3.1	10
55	A novel hybridized blue energy harvester aiming at all-weather IoT applications. <i>Nano Energy</i> , 2020 , 76, 105052	17.1	50
54	Continuous direct current by charge transportation for next-generation IoT and real-time virtual reality applications. <i>Nano Energy</i> , 2020 , 73, 104760	17.1	34
53	Battery-free short-range self-powered wireless sensor network (SS-WSN) using TENG based direct sensory transmission (TDST) mechanism. <i>Nano Energy</i> , 2020 , 67, 104266	17.1	52
52	Progress in TENG technologyA journey from energy harvesting to nanoenergy and nanosystem. <i>EcoMat</i> , 2020 , 2, e12058	9.4	57
51	Progress in wearable electronics/photonicsMoving toward the era of artificial intelligence and internet of things. <i>InformaB Materials</i> , 2020 , 2, 1131-1162	23.1	143
50	Smart materials for smart healthcareMoving from sensors and actuators to self-sustained nanoenergy nanosystems. <i>Smart Materials in Medicine</i> , 2020 , 1, 92-124	12.9	41
49	Deep learning-enabled triboelectric smart socks for IoT-based gait analysis and VR applications. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	76
48	Deep learning enabled smart mats as a scalable floor monitoring system. <i>Nature Communications</i> , 2020 , 11, 4609	17.4	92
47	Self-powered glove-based intuitive interface for diversified control applications in real/cyber space. <i>Nano Energy</i> , 2019 , 58, 641-651	17.1	89
46	Self-powered multifunctional monitoring system using hybrid integrated triboelectric nanogenerators and piezoelectric microsensors. <i>Nano Energy</i> , 2019 , 58, 612-623	17.1	58
45	Self-Powered Bio-Inspired Spider-Net-Coding Interface Using Single-Electrode Triboelectric Nanogenerator. <i>Advanced Science</i> , 2019 , 6, 1900617	13.6	89
44	Versatile microfluidic platform embedded with sidewall three-dimensional electrodes for cell manipulation. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5, 055003	1.5	7
43	Minimalist and multi-functional human machine interface (HMI) using a flexible wearable triboelectric patch. <i>Nano Energy</i> , 2019 , 62, 355-366	17.1	92
42	A Motion-Balanced Sensor Based on the Triboelectricity of Nano-iron Suspension and Flexible Polymer. <i>Nanomaterials</i> , 2019 , 9,	5.4	8

41	Intuitive-augmented human-machine multidimensional nano-manipulation terminal using triboelectric stretchable strip sensors based on minimalist design. <i>Nano Energy</i> , 2019 , 60, 440-448	17.1	34
40	Triboelectric single-electrode-output control interface using patterned grid electrode. <i>Nano Energy</i> , 2019 , 60, 545-556	17.1	44
39	From flexible electronics technology in the era of IoT and artificial intelligence toward future implanted body sensor networks. <i>APL Materials</i> , 2019 , 7, 031302	5.7	73
38	Self-Powered and Self-Functional Cotton Sock Using Piezoelectric and Triboelectric Hybrid Mechanism for Healthcare and Sports Monitoring. <i>ACS Nano</i> , 2019 , 13, 1940-1952	16.7	144
37	A rotational pendulum based electromagnetic/triboelectric hybrid-generator for ultra-low-frequency vibrations aiming at human motion and blue energy applications. <i>Nano Energy</i> , 2019 , 63, 103871	17.1	92
36	Sensors and Control Interface Methods Based on Triboelectric Nanogenerator in IoT Applications. <i>IEEE Access</i> , 2019 , 7, 92745-92757	3.5	36
35	Study of thin film blue energy harvester based on triboelectric nanogenerator and seashore IoT applications. <i>Nano Energy</i> , 2019 , 66, 104167	17.1	66
34	High density nanowire electrodes for intracortical microstimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 5657-5660	0.9	
33	Self-Sustainable Wearable Textile Nano-Energy Nano-System (NENS) for Next-Generation Healthcare Applications. <i>Advanced Science</i> , 2019 , 6, 1901437	13.6	108
32	Development Trends and Perspectives of Future Sensors and MEMS/NEMS. <i>Micromachines</i> , 2019 , 11,	3.3	74
31	A Two-Degree-of-Freedom Cantilever-Based Vibration Triboelectric Nanogenerator for Low-Frequency and Broadband Operation. <i>Electronics (Switzerland)</i> , 2019 , 8, 1526	2.6	6
30	Beyond energy harvesting - multi-functional triboelectric nanosensors on a textile. <i>Nano Energy</i> , 2019 , 57, 338-352	17.1	119
29	Investigation of Broadband Characteristics of Multi-Frequency Piezoelectric Micromachined Ultrasonic Transducer (MF-pMUT). <i>IEEE Sensors Journal</i> , 2019 , 19, 860-867	4	20
28	More than energy harvesting [Combining triboelectric nanogenerator and flexible electronics technology for enabling novel micro-/nano-systems. <i>Nano Energy</i> , 2019 , 57, 851-871	17.1	177
27	A self-powered 3D activity inertial sensor using hybrid sensing mechanisms. <i>Nano Energy</i> , 2019 , 56, 651-661	17.1	33
26	Battery-free neuromodulator for peripheral nerve direct stimulation. <i>Nano Energy</i> , 2018 , 50, 148-158	17.1	63
25	Novel augmented reality interface using a self-powered triboelectric based virtual reality 3D-control sensor. <i>Nano Energy</i> , 2018 , 51, 162-172	17.1	47
24	A Self-Powered Six-Axis Tactile Sensor by Using Triboelectric Mechanism. <i>Nanomaterials</i> , 2018 , 8,	5.4	11

23	Investigation of Position Sensing and Energy Harvesting of a Flexible Triboelectric Touch Pad. <i>Nanomaterials</i> , 2018 , 8,	5.4	21
22	Controlling Surface Charge Generated by Contact Electrification: Strategies and Applications. <i>Advanced Materials</i> , 2018 , 30, e1802405	24	81
21	Triboelectric Balls as Three-Dimensional Vibrational Energy Harvesters and Self-Powered Sensors 2018 ,		1
20	A non-resonant rotational electromagnetic energy harvester for low-frequency and irregular human motion. <i>Applied Physics Letters</i> , 2018 , 113, 203901	3.4	85
19	Development of a Highly Sensitive Humidity Sensor Based on a Piezoelectric Micromachined Ultrasonic Transducer Array Functionalized with Graphene Oxide Thin Film. <i>Sensors</i> , 2018 , 18,	3.8	20
18	Self-Powered Triboelectric Inertial Sensor Ball for IoT and Wearable Applications. <i>Journal of Physics: Conference Series</i> , 2018 , 1052, 012030	0.3	1
17	Triboelectric Self-Powered Wearable Flexible Patch as 3D Motion Control Interface for Robotic Manipulator. <i>ACS Nano</i> , 2018 , 12, 11561-11571	16.7	118
16	Development of a Thermoelectric and Electromagnetic Hybrid Energy Harvester from Water Flow in an Irrigation System. <i>Micromachines</i> , 2018 , 9,	3.3	7
15	Self-Powered Cursor Using a Triboelectric Mechanism. <i>Small Methods</i> , 2018 , 2, 1800078	12.8	15
14	Development of battery-free neural interface and modulated control of tibialis anterior muscle via common peroneal nerve based on triboelectric nanogenerators (TENGs). <i>Nano Energy</i> , 2017 , 33, 1-11	17.1	85
13	Broadband Energy Harvester Using Non-linear Polymer Spring and Electromagnetic/Triboelectric Hybrid Mechanism. <i>Scientific Reports</i> , 2017 , 7, 41396	4.9	82
12	Nanowire Electrodes Integrated on Tip of Microwire for Peripheral Nerve Stimulation. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 921-925	2.5	1
11	Self-Powered Dual-Mode Amenity Sensor Based on the Water-Air Triboelectric Nanogenerator. <i>ACS Nano</i> , 2017 , 11, 10337-10346	16.7	81
10	Self-Powered Gyroscope Ball Using a Triboelectric Mechanism. <i>Advanced Energy Materials</i> , 2017 , 7, 1701308	10.8	68
9	Triboelectric and microfluidic integrated self-generated tactile sensor 2017 ,		1
8	Combining neural electrodes and triboelectric nanogenerators (TENGs) to enable a self-sustainable platform for neuromodulation 2017 ,		2
7	Self-powered triboelectric nanogenerator buoy ball for applications ranging from environment monitoring to water wave energy farm. <i>Nano Energy</i> , 2017 , 40, 203-213	17.1	96
6	Self-powered liquid triboelectric microfluidic sensor for pressure sensing and finger motion monitoring applications. <i>Nano Energy</i> , 2016 , 30, 450-459	17.1	116

5	MEMS Based Broadband Piezoelectric Ultrasonic Energy Harvester (PUEH) for Enabling Self-Powered Implantable Biomedical Devices. <i>Scientific Reports</i> , 2016 , 6, 24946	4.9	103
4	MEMS based piezoelectric ultrasonic energy harvester for self-powered under-water applications 2016 ,		2
3	Investigation of geometric design in piezoelectric microelectromechanical systems diaphragms for ultrasonic energy harvesting. <i>Applied Physics Letters</i> , 2016 , 108, 193902	3.4	33
2	Piezoelectric MEMS Evolution from sensing technology to diversified applications in the 5G / Internet of Things (IoT) era. <i>Journal of Micromechanics and Microengineering</i> ,	2	12
1	Progress of Advanced Devices and Internet of Things Systems as Enabling Technologies for Smart Homes and Health Care. <i>ACS Materials Au</i> ,		3