

Qingshen Jing

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.

61
papers

11,059
citations

41
h-index

62
g-index

62
ext. papers

12,336
ext. citations

14
avg, IF

6.28
L-index

#	Paper	IF	Citations
61	3D-printed hierarchical pillar array electrodes for high-performance semi-artificial photosynthesis.. <i>Nature Materials</i> , 2022 ,	27	3
60	Conformable and robust microfluidic force sensors to enable precision joint replacement surgery. <i>Materials and Design</i> , 2022 , 110747	8.1	0
59	Aerosol-jet-printed, conformable microfluidic force sensors. <i>Cell Reports Physical Science</i> , 2021 , 2, 100386.1	4	4
58	A portable triboelectric spirometer for wireless pulmonary function monitoring. <i>Biosensors and Bioelectronics</i> , 2021 , 187, 113329	11.8	31
57	Manufacturing routes toward flexible and smart energy harvesters and sensors based on functional nanomaterials 2020 , 381-437		1
56	Aerosol-jet printing facilitates the rapid prototyping of microfluidic devices with versatile geometries and precise channel functionalization. <i>Applied Materials Today</i> , 2020 , 19, 100618	6.6	10
55	Compositionally Graded Organic/Inorganic Nanocomposites for Enhanced Thermoelectric Performance. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900720	6.4	11
54	Biosensors Based on Mechanical and Electrical Detection Techniques. <i>Sensors</i> , 2020 , 20,	3.8	20
53	Enhanced piezoelectricity and electromechanical efficiency in semiconducting GaN due to nanoscale porosity. <i>Applied Materials Today</i> , 2020 , 21, 100858	6.6	5
52	Optical multi-functionalities of Er ³⁺ - and Yb ³⁺ -sensitized strontium bismuth titanate nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019 , 801, 1-9	5.7	10
51	Freestanding Functional Structures by Aerosol-Jet Printing for Stretchable Electronics and Sensing Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900048	6.8	21
50	Highly sensitive piezotronic pressure sensors based on undoped GaAs nanowire ensembles. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 294002	3	12
49	Angle-shaped triboelectric nanogenerator for harvesting environmental wind energy. <i>Nano Energy</i> , 2019 , 56, 269-276	17.1	84
48	Aerosol-Jet Printed Fine-Featured Triboelectric Sensors for Motion Sensing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800328	6.8	27
47	Nanostructured polymer-based piezoelectric and triboelectric materials and devices for energy harvesting applications. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 303001	3	62
46	Enhanced thermoelectric properties of flexible aerosol-jet printed carbon nanotube-based nanocomposites. <i>APL Materials</i> , 2018 , 6, 096101	5.7	23
45	Fully Printed Organic-Inorganic Nanocomposites for Flexible Thermoelectric Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 19580-19587	9.5	72

44	Direct observation of shear piezoelectricity in poly-l-lactic acid nanowires. <i>APL Materials</i> , 2017 , 5, 074105.	5.7	24
43	Needs and Enabling Technologies for Stretchable Electronics Commercialization. <i>MRS Advances</i> , 2017 , 2, 1721-1729	0.7	11
42	A triboelectric generator based on self-poled Nylon-11 nanowires fabricated by gas-flow assisted template wetting. <i>Energy and Environmental Science</i> , 2017 , 10, 2180-2189	35.4	69
41	Wind energy harvesting and self-powered flow rate sensor enabled by contact electrification. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 215601	3	30
40	Localized electromechanical interactions in ferroelectric P(VDF-TrFE) nanowires investigated by scanning probe microscopy. <i>APL Materials</i> , 2016 , 4, 116106	5.7	17
39	Personalized keystroke dynamics for self-powered human-machine interfacing. <i>ACS Nano</i> , 2015 , 9, 105-116.	16.7	195
38	Networks of triboelectric nanogenerators for harvesting water wave energy: a potential approach toward blue energy. <i>ACS Nano</i> , 2015 , 9, 3324-31	16.7	419
37	Self-powered thin-film motion vector sensor. <i>Nature Communications</i> , 2015 , 6, 8031	17.4	100
36	Triboelectric nanogenerators as a new energy technology: From fundamentals, devices, to applications. <i>Nano Energy</i> , 2015 , 14, 126-138	17.1	400
35	A Self-Powered Angle Measurement Sensor Based on Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2015 , 25, 2166-2174	15.6	103
34	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. <i>Nano Energy</i> , 2015 , 12, 278-286	17.1	32
33	Eardrum-inspired active sensors for self-powered cardiovascular system characterization and throat-attached anti-interference voice recognition. <i>Advanced Materials</i> , 2015 , 27, 1316-26	24	366
32	Multi-layered disk triboelectric nanogenerator for harvesting hydropower. <i>Nano Energy</i> , 2014 , 6, 129-136.	17.1	86
31	Triboelectrification based motion sensor for human-machine interfacing. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7479-84	9.5	133
30	Membrane-Based Self-Powered Triboelectric Sensors for Pressure Change Detection and Its Uses in Security Surveillance and Healthcare Monitoring. <i>Advanced Functional Materials</i> , 2014 , 24, 5807-5813	15.6	199
29	Self-powered triboelectric velocity sensor for dual-mode sensing of rectified linear and rotary motions. <i>Nano Energy</i> , 2014 , 10, 305-312	17.1	65
28	Harvesting broadband kinetic impact energy from mechanical triggering/vibration and water waves. <i>ACS Nano</i> , 2014 , 8, 7405-12	16.7	150
27	Case-encapsulated triboelectric nanogenerator for harvesting energy from reciprocating sliding motion. <i>ACS Nano</i> , 2014 , 8, 3836-42	16.7	119

26	Self-powered, ultrasensitive, flexible tactile sensors based on contact electrification. <i>Nano Letters</i> , 2014 , 14, 3208-13	11.5	352
25	Harvesting water wave energy by asymmetric screening of electrostatic charges on a nanostructured hydrophobic thin-film surface. <i>ACS Nano</i> , 2014 , 8, 6031-7	16.7	376
24	Triboelectric sensor for self-powered tracking of object motion inside tubing. <i>ACS Nano</i> , 2014 , 8, 3843-50	6.7	124
23	A shape-adaptive thin-film-based approach for 50% high-efficiency energy generation through micro-grating sliding electrification. <i>Advanced Materials</i> , 2014 , 26, 3788-96	24	346
22	Grating-structured freestanding triboelectric-layer nanogenerator for harvesting mechanical energy at 85% total conversion efficiency. <i>Advanced Materials</i> , 2014 , 26, 6599-607	24	337
21	Nanometer resolution self-powered static and dynamic motion sensor based on micro-grated triboelectrification. <i>Advanced Materials</i> , 2014 , 26, 1719-24	24	102
20	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. <i>Advanced Functional Materials</i> , 2014 , 24, 4090-4096	15.6	213
19	Radial-arrayed rotary electrification for high performance triboelectric generator. <i>Nature Communications</i> , 2014 , 5, 3426	17.4	629
18	Sliding-triboelectric nanogenerators based on in-plane charge-separation mechanism. <i>Nano Letters</i> , 2013 , 13, 2226-33	11.5	496
17	Harmonic-resonator-based triboelectric nanogenerator as a sustainable power source and a self-powered active vibration sensor. <i>Advanced Materials</i> , 2013 , 25, 6094-9	24	572
16	Human skin based triboelectric nanogenerators for harvesting biomechanical energy and as self-powered active tactile sensor system. <i>ACS Nano</i> , 2013 , 7, 9213-22	16.7	560
15	Single-electrode-based sliding triboelectric nanogenerator for self-powered displacement vector sensor system. <i>ACS Nano</i> , 2013 , 7, 7342-51	16.7	418
14	Cylindrical rotating triboelectric nanogenerator. <i>ACS Nano</i> , 2013 , 7, 6361-6	16.7	201
13	A room-temperature non-volatile CNT-based molecular memory cell. <i>Journal of Applied Physics</i> , 2013 , 113, 144302	2.5	1
12	An elastic-spring-substrated nanogenerator as an active sensor for self-powered balance. <i>Energy and Environmental Science</i> , 2013 , 6, 1164	35.4	47
11	Integrated multilayered triboelectric nanogenerator for harvesting biomechanical energy from human motions. <i>ACS Nano</i> , 2013 , 7, 3713-9	16.7	444
10	In situ quantitative study of nanoscale triboelectrification and patterning. <i>Nano Letters</i> , 2013 , 13, 2771-6	11.5	163
9	Rotary triboelectric nanogenerator based on a hybridized mechanism for harvesting wind energy. <i>ACS Nano</i> , 2013 , 7, 7119-25	16.7	263

8	Linear-grating triboelectric generator based on sliding electrification. <i>Nano Letters</i> , 2013 , 13, 2282-9	11.5	378
7	Segmentally structured disk triboelectric nanogenerator for harvesting rotational mechanical energy. <i>Nano Letters</i> , 2013 , 13, 2916-23	11.5	368
6	Toward large-scale energy harvesting by a nanoparticle-enhanced triboelectric nanogenerator. <i>Nano Letters</i> , 2013 , 13, 847-53	11.5	804
5	Harvesting energy from the natural vibration of human walking. <i>ACS Nano</i> , 2013 , 7, 11317-24	16.7	400
4	Triboelectric nanogenerator built on suspended 3D spiral structure as vibration and positioning sensor and wave energy harvester. <i>ACS Nano</i> , 2013 , 7, 10424-32	16.7	164
3	Self-powered magnetic sensor based on a triboelectric nanogenerator. <i>ACS Nano</i> , 2012 , 6, 10378-83	16.7	144
2	Nanogenerator as an active sensor for vortex capture and ambient wind-velocity detection. <i>Energy and Environmental Science</i> , 2012 , 5, 8528	35.4	69
1	Thermoelectric nanogenerators based on single Sb-doped ZnO micro/nanobelts. <i>ACS Nano</i> , 2012 , 6, 6984-9	16.7	174