

Guanlin Liu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,115
citations

279487

23
h-index

454577

30
g-index

30
all docs

30
docs citations

30
times ranked

2582
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, .	9.9	573
2	Enhancing Performance of Triboelectric Nanogenerator by Filling High Dielectric Nanoparticles into Sponge PDMS Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 736-744.	4.0	474
3	Integrated charge excitation triboelectric nanogenerator. <i>Nature Communications</i> , 2019, 10, 1426.	5.8	375
4	Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. <i>ACS Nano</i> , 2017, 11, 4475-4482.	7.3	201
5	Oblate Spheroidal Triboelectric Nanogenerator for All-Weather Blue Energy Harvesting. <i>Advanced Energy Materials</i> , 2019, 9, 1900801.	10.2	162
6	Aligning graphene sheets in PDMS for improving output performance of triboelectric nanogenerator. <i>Carbon</i> , 2017, 111, 569-576.	5.4	153
7	Self-Powered Triboelectric Micro Liquid/Gas Flow Sensor for Microfluidics. <i>ACS Nano</i> , 2016, 10, 8104-8112.	7.3	131
8	Whirligig-inspired triboelectric nanogenerator with ultrahigh specific output as reliable portable instant power supply for personal health monitoring devices. <i>Nano Energy</i> , 2018, 47, 74-80.	8.2	122
9	Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator. <i>Nano Research</i> , 2017, 10, 320-330.	5.8	106
10	Harvesting heat energy from hot/cold water with a pyroelectric generator. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11940-11947.	5.2	101
11	Hybridized nanogenerator based on honeycomb-like three electrodes for efficient ocean wave energy harvesting. <i>Nano Energy</i> , 2018, 47, 217-223.	8.2	89
12	Rolling friction contact-separation mode hybrid triboelectric nanogenerator for mechanical energy harvesting and self-powered multifunctional sensors. <i>Nano Energy</i> , 2018, 47, 539-546.	8.2	77
13	A fully-packaged and robust hybridized generator for harvesting vertical rotation energy in broad frequency band and building up self-powered wireless systems. <i>Nano Energy</i> , 2017, 33, 508-514.	8.2	63
14	Wireless Electric Energy Transmission through Various Isolated Solid Media Based on Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2018, 8, 1703086.	10.2	58
15	Folded Elastic Strip-Based Triboelectric Nanogenerator for Harvesting Human Motion Energy for Multiple Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20469-20476.	4.0	50
16	Flexible interdigital-electrodes-based triboelectric generators for harvesting sliding and rotating mechanical energy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19427-19434.	5.2	48
17	Flower-like triboelectric nanogenerator for blue energy harvesting with six degrees of freedom. <i>Nano Energy</i> , 2022, 93, 106796.	8.2	37
18	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. <i>Nano Research</i> , 2021, 14, 4204-4210.	5.8	34

#	ARTICLE	IF	CITATIONS
19	Anti-Overturning Fully Symmetrical Triboelectric Nanogenerator Based on an Elliptic Cylindrical Structure for All-Weather Blue Energy Harvesting. Nano-Micro Letters, 2022, 14, 124.	14.4	33
20	Double-induced-mode integrated triboelectric nanogenerator based on spring steel to maximize space utilization. Nano Research, 2016, 9, 3355-3363.	5.8	32
21	Honeycomb-like three electrodes based triboelectric generator for harvesting energy in full space and as a self-powered vibration alertor. Nano Energy, 2015, 15, 766-775.	8.2	26
22	Triboelectric nanogenerator based on magnetically induced retractable spring steel tapes for efficient energy harvesting of large amplitude motion. Nano Research, 2018, 11, 633-641.	5.8	25
23	Newton's cradle motion-like triboelectric nanogenerator to enhance energy recycle efficiency by utilizing elastic deformation. Journal of Materials Chemistry A, 2015, 3, 21133-21139.	5.2	23
24	Synchronous nanogenerator with intermittent sliding friction self-excitation for water wave energy harvesting. Nano Energy, 2022, 95, 106994.	8.2	21
25	Notepad-like Triboelectric Generator for Efficiently Harvesting Low-Velocity Motion Energy by Interconversion between Kinetic Energy and Elastic Potential Energy. ACS Applied Materials & Interfaces, 2015, 7, 1275-1283.	4.0	20
26	Enhancing the performance of NaNbO_3 triboelectric nanogenerators by dielectric modulation and electronegative modification. Journal Physics D: Applied Physics, 2018, 51, 015303.	1.3	20
27	Rational design of CuO nanostructures grown on carbon fiber fabrics with enhanced electrochemical performance for flexible supercapacitor. Journal of Materials Science, 2018, 53, 739-748.	1.7	19
28	A Novel Triboelectric Generator Based on the Combination of a Waterwheel-Like Electrode with a Spring Steel Plate For Efficient Harvesting of Low-Velocity Rotational Motion Energy. Advanced Electronic Materials, 2016, 2, 1500448.	2.6	16
29	Foldable and portable triboelectric-electromagnetic generator for scavenging motion energy and as a sensitive gas flow sensor for detecting breath personality. Nanotechnology, 2015, 26, 475402.	1.3	15
30	Novel Spiral-Like Electrode Structure Design for Realization of Two Modes of Energy Harvesting. ACS Applied Materials & Interfaces, 2015, 7, 16450-16457.	4.0	11