

# 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	Flower-like triboelectric nanogenerator for blue energy harvesting with six degrees of freedom. Nano Energy, 2022, 93, 106796.	8.2	37
2	Synchronous nanogenerator with intermittent sliding friction self-excitation for water wave energy harvesting. Nano Energy, 2022, 95, 106994.	8.2	21
3	Anti-Overturning Fully Symmetrical Triboelectric Nanogenerator Based on an Elliptical Cylindrical Structure for All-Weather Blue Energy Harvesting. Nano-Micro Letters, 2022, 14, 124.	14.4	33
4	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. Nano Research, 2021, 14, 4204-4210.	5.8	34
5	Oblate Spheroidal Triboelectric Nanogenerator for All-Weather Blue Energy Harvesting. Advanced Energy Materials, 2019, 9, 1900801.	10.2	162
6	Integrated charge excitation triboelectric nanogenerator. Nature Communications, 2019, 10, 1426.	5.8	375
7	Hybridized nanogenerator based on honeycomb-like three electrodes for efficient ocean wave energy harvesting. Nano Energy, 2018, 47, 217-223.	8.2	89
8	Whirligig-inspired triboelectric nanogenerator with ultrahigh specific output as reliable portable instant power supply for personal health monitoring devices. Nano Energy, 2018, 47, 74-80.	8.2	122
9	Wireless Electric Energy Transmission through Various Isolated Solid Media Based on Triboelectric Nanogenerator. Advanced Energy Materials, 2018, 8, 1703086.	10.2	58
10	Rolling friction contact-separation mode hybrid triboelectric nanogenerator for mechanical energy harvesting and self-powered multifunctional sensors. Nano Energy, 2018, 47, 539-546.	8.2	77
11	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
12	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
13	Enhancing the performance of $\text{NaNbO}_3$ triboelectric nanogenerators by dielectric modulation and electronegative modification. Journal Physics D: Applied Physics, 2018, 51, 015303.	1.3	20
14	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. Science Robotics, 2018, 3, .	9.9	573
15	A fully-packaged and robust hybridized generator for harvesting vertical rotation energy in broad frequency band and building up self-powered wireless systems. Nano Energy, 2017, 33, 508-514.	8.2	63
16	Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. ACS Nano, 2017, 11, 4475-4482.	7.3	201
17	Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator. Nano Research, 2017, 10, 320-330.	5.8	106
18	Aligning graphene sheets in PDMS for improving output performance of triboelectric nanogenerator. Carbon, 2017, 111, 569-576.	5.4	153

#	ARTICLE	IF	CITATIONS
19	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. <i>Advanced Electronic Materials</i> , 2016, 2, 1500448.	2.6	16
20	Self-Powered Triboelectric Micro Liquid/Gas Flow Sensor for Microfluidics. <i>ACS Nano</i> , 2016, 10, 8104-8112.	7.3	131
21	Double-induced-mode integrated triboelectric nanogenerator based on spring steel to maximize space utilization. <i>Nano Research</i> , 2016, 9, 3355-3363.	5.8	32
22	Enhancing Performance of Triboelectric Nanogenerator by Filling High Dielectric Nanoparticles into Sponge PDMS Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 736-744.	4.0	474
23	Foldable and portable triboelectric-electromagnetic generator for scavenging motion energy and as a sensitive gas flow sensor for detecting breath personality. <i>Nanotechnology</i> , 2015, 26, 475402.	1.3	15
24	Note-pad-like Triboelectric Generator for Efficiently Harvesting Low-Velocity Motion Energy by Interconversion between Kinetic Energy and Elastic Potential Energy. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1275-1283.	4.0	20
25	Honeycomb-like three electrodes based triboelectric generator for harvesting energy in full space and as a self-powered vibration alertor. <i>Nano Energy</i> , 2015, 15, 766-775.	8.2	26
26	Novel Spiral-Like Electrode Structure Design for Realization of Two Modes of Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16450-16457.	4.0	11
27	Folded Elastic Strip-Based Triboelectric Nanogenerator for Harvesting Human Motion Energy for Multiple Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20469-20476.	4.0	50
28	Newton's cradle motion-like triboelectric nanogenerator to enhance energy recycle efficiency by utilizing elastic deformation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21133-21139.	5.2	23
29	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
30	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