

# Daewon Kim

## List of Publications by Citations

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**Version:** 2024-04-23

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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.

81

papers

2,178

citations

26

h-index

44

g-index

90

ext. papers

2,785

ext. citations

10.8

avg, IF

5.48

L-index

#	Paper	IF	Citations
81	Simultaneous Reduction and Surface Functionalization of Graphene Oxide by Mussel-Inspired Chemistry. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 108-112	15.6	368
80	Vertically stacked thin triboelectric nanogenerator for wind energy harvesting. <i>Nano Energy</i> , <b>2015</b> , 14, 201-208	17.1	132
79	Self-cleaning hybrid energy harvester to generate power from raindrop and sunlight. <i>Nano Energy</i> , <b>2015</b> , 12, 636-645	17.1	118
78	High-performance nanopattern triboelectric generator by block copolymer lithography. <i>Nano Energy</i> , <b>2015</b> , 12, 331-338	17.1	101
77	Impact of contact pressure on output voltage of triboelectric nanogenerator based on deformation of interfacial structures. <i>Nano Energy</i> , <b>2015</b> , 17, 63-71	17.1	88
76	All-in-one cellulose based triboelectric nanogenerator for electronic paper using simple filtration process. <i>Nano Energy</i> , <b>2018</b> , 53, 975-981	17.1	78
75	Surface structural analysis of a friction layer for a triboelectric nanogenerator. <i>Nano Energy</i> , <b>2017</b> , 42, 34-42	17.1	52
74	A Triboelectric Sponge Fabricated from a Cube Sugar Template by 3D Soft Lithography for Superhydrophobicity and Elasticity. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500331	6.4	52
73	Design strategy for a piezoelectric nanogenerator with a well-ordered nanoshell array. <i>ACS Nano</i> , <b>2013</b> , 7, 10773-9	16.7	51
72	Direct-laser-patterned friction layer for the output enhancement of a triboelectric nanogenerator. <i>Nano Energy</i> , <b>2017</b> , 35, 379-386	17.1	48
71	3-Dimensional broadband energy harvester based on internal hydrodynamic oscillation with a package structure. <i>Nano Energy</i> , <b>2015</b> , 17, 82-90	17.1	47
70	Triboelectric nanogenerator based on rolling motion of beads for harvesting wind energy as active wind speed sensor. <i>Nano Energy</i> , <b>2018</b> , 52, 256-263	17.1	46
69	Self-powered electro-coagulation system driven by a wind energy harvesting triboelectric nanogenerator for decentralized water treatment. <i>Nano Energy</i> , <b>2016</b> , 28, 288-295	17.1	46
68	Self-powered wearable keyboard with fabric based triboelectric nanogenerator. <i>Nano Energy</i> , <b>2018</b> , 53, 596-603	17.1	44
67	Enhancing humidity sensing performance of polyaniline/water soluble graphene oxide composite. <i>Talanta</i> , <b>2019</b> , 196, 337-344	6.2	43
66	Self-Powered Ion Concentration Sensor with Triboelectricity from Liquid-Solid Contact Electrification. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600006	6.4	42
65	Triboelectric nanogenerator with nanostructured metal surface using water-assisted oxidation. <i>Nano Energy</i> , <b>2016</b> , 21, 258-264	17.1	42

64	Surface Engineering of Triboelectric Nanogenerator with an Electrodeposited Gold Nanoflower Structure. <i>Scientific Reports</i> , <b>2015</b> , 5, 13866	4.9	40
63	Triboelectric Nanogenerator Based on the Internal Motion of Powder with a Package Structure Design. <i>ACS Nano</i> , <b>2016</b> , 10, 1017-24	16.7	39
62	Self-powered fall detection system using pressure sensing triboelectric nanogenerators. <i>Nano Energy</i> , <b>2017</b> , 41, 139-147	17.1	39
61	Disk-based triboelectric nanogenerator operated by rotational force converted from linear force by a gear system. <i>Nano Energy</i> , <b>2018</b> , 50, 489-496	17.1	35
60	Conducting polymer nanocomposite based temperature sensors: A review. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 98, 11-28	3.1	34
59	Ultrathin unified harvesting module capable of generating electrical energy during rainy, windy, and sunny conditions. <i>Nano Energy</i> , <b>2020</b> , 70, 104515	17.1	31
58	Self-powered transparent and flexible touchpad based on triboelectricity towards artificial intelligence. <i>Nano Energy</i> , <b>2020</b> , 78, 105325	17.1	30
57	Physically Transient Memory on a Rapidly Dissolvable Paper for Security Application. <i>Scientific Reports</i> , <b>2016</b> , 6, 38324	4.9	30
56	Multilayer Graphene with a Rippled Structure as a Spacer for Improving Plasmonic Coupling. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5093-5101	15.6	28
55	Performance-enhanced triboelectric nanogenerator using the glass transition of polystyrene. <i>Nano Energy</i> , <b>2016</b> , 27, 306-312	17.1	23
54	Self-sustainable wind speed sensor system with omni-directional wind based triboelectric generator. <i>Nano Energy</i> , <b>2019</b> , 55, 115-122	17.1	23
53	A Superamphiphobic Sponge with Mechanical Durability and a Self-Cleaning Effect. <i>Scientific Reports</i> , <b>2016</b> , 6, 29993	4.9	22
52	Self-powered wearable touchpad composed of all commercial fabrics utilizing a crossline array of triboelectric generators. <i>Nano Energy</i> , <b>2019</b> , 65, 103994	17.1	22
51	Levitating oscillator-based triboelectric nanogenerator for harvesting from rotational motion and sensing seismic oscillation. <i>Nano Energy</i> , <b>2020</b> , 72, 104674	17.1	19
50	Bioinspired Polydopamine-Based Resistive-Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900151	6.8	17
49	Multidirection and Multiamplitude Triboelectric Nanogenerator Composed of Porous Conductive Polymer with Prolonged Time of Current Generation. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800654	21.8	17
48	Large-sized sandpaper coated with solution-processed aluminum for a triboelectric nanogenerator with reliable durability. <i>RSC Advances</i> , <b>2017</b> , 7, 137-144	3.7	16
47	Boron Nitride Nanotube-Based Contact Electrification-Assisted Piezoelectric Nanogenerator as a Kinematic Sensor for Detecting the Flexion/Extension Motion of a Robot Finger. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1577-1585	20.1	16

46	Ferromagnetic nanoparticle-embedded hybrid nanogenerator for harvesting omnidirectional vibration energy. <i>Nanoscale</i> , <b>2018</b> , 10, 12276-12283	7.7	15
45	Dynamic Analysis to Enhance the Performance of a Rotating-Disk-Based Triboelectric Nanogenerator by Injected Gas. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25170-25178	9.5	14
44	Willow-like portable triboelectric respiration sensor based on polyethylenimine-assisted CO <sub>2</sub> capture. <i>Nano Energy</i> , <b>2019</b> , 65, 103990	17.1	14
43	Controlled anisotropic wetting of scalloped silicon nanogroove. <i>RSC Advances</i> , <b>2016</b> , 6, 41914-41918	3.7	14
42	Ternary Nanocomposite for Solar Light Photocatalytic Degradation of Methyl Orange. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 97, 191-195	3.1	14
41	Reduced Graphene Oxide/ZnO Nanorods Nanocomposite: Structural, Electrical and Electrochemical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2019</b> , 29, 2282-2290	3.2	13
40	Omnidirectional Triboelectric Nanogenerator Operated by Weak Wind Towards a Self-Powered Anemoscope. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	13
39	3D Carbon Electrode Based Triboelectric Nanogenerator. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 16001-16005	1.5	13
38	Copper ferrite-yttrium oxide (CFYO) nanocomposite as remarkable humidity sensor. <i>Inorganic Chemistry Communication</i> , <b>2019</b> , 99, 180-188	3.1	13
37	ZnO nanorods@conductive carbon black nanocomposite based flexible integrated system for energy conversion and storage through triboelectric nanogenerator and supercapacitor. <i>Nano Energy</i> , <b>2021</b> , 82, 105726	17.1	12
36	A triboelectric nanogenerator using silica-based powder for appropriate technology. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 280, 85-91	3.9	11
35	Role of molybdenum trioxide in enhancing the humidity sensing performance of magnesium ferrite/molybdenum trioxide composite. <i>Inorganic Chemistry Communication</i> , <b>2018</b> , 98, 68-74	3.1	11
34	Preparation of NiO decorated CNT/ZnO core-shell hybrid nanocomposites with the aid of ultrasonication for enhancing the performance of hybrid supercapacitors. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 71, 105374	8.9	10
33	Self-powered data erasing of nanoscale flash memory by triboelectricity. <i>Nano Energy</i> , <b>2018</b> , 52, 63-70	17.1	9
32	Novel Conductive Ag-Decorated NiFe Mixed Metal Telluride Hierarchical Nanorods for High-Performance Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19938-19949	9.5	9
31	Paint based triboelectric nanogenerator using facile spray deposition towards smart traffic system and security application. <i>Nano Energy</i> , <b>2021</b> , 88, 106236	17.1	8
30	A multi-directional wind based triboelectric generator with investigation of frequency effects. <i>Extreme Mechanics Letters</i> , <b>2018</b> , 19, 46-53	3.9	7
29	Self-Power Dynamic Sensor Based on Triboelectrification for Tilt of Direction and Angle. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7

28	Air-gap embedded triboelectric nanogenerator surface modification of non-contact layer using sandpapers. <i>Nanoscale</i> , <b>2021</b> , 13, 8837-8847	7.7	7
27	CuCo LDHs Coated CuCoTe Honeycomb-Like Nanosheets as a Novel Anode Material for Hybrid Supercapacitors. <i>Small</i> , <b>2021</b> , 17, e2102369	11	6
26	Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors. <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2000752	6.8	6
25	A study of the charge distribution and output characteristics of an ultra-thin tribo-dielectric layer. <i>Nano Energy</i> , <b>2019</b> , 62, 458-464	17.1	5
24	Dual output from unitary input for a hybrid coaxial triboelectric nanogenerator inspired by a crank engine. <i>Nano Energy</i> , <b>2020</b> , 71, 104599	17.1	5
23	Enhanced transconductance in a double-gate graphene field-effect transistor. <i>Solid-State Electronics</i> , <b>2018</b> , 141, 65-68	1.7	5
22	rGO/ZnO nanorods/Cu based nanocomposite having flower shaped morphology: AC conductivity and humidity sensing response studies at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 15544-15552	2.1	5
21	Hybrid tribo-thermoelectric generator for effectively harvesting thermal energy activated by the shape memory alloy. <i>Nano Energy</i> , <b>2021</b> , 82, 105696	17.1	5
20	Antibacterial and Soluble Paper-Based Skin-Attachable Human Motion Sensor Using Triboelectricity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	4
19	A waterwheel hybrid generator with disk triboelectric nanogenerator and electromagnetic generator as a power source for an electrocoagulation system. <i>Nano Energy</i> , <b>2022</b> , 107048	17.1	4
18	Disk Triboelectric Nanogenerator-Based Nonvolatile Memory toward Smart Identification System. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102536	15.6	4
17	Facile Process for Surface Passivation Using (NH)S for the InP MOS Capacitor with ALD AlO. <i>Materials</i> , <b>2019</b> , 12,	3.5	4
16	Hybrid energy harvesting system based on Stirling engine towards next-generation heat recovery system in industrial fields. <i>Nano Energy</i> , <b>2021</b> , 90, 106508	17.1	4
15	Robust and flexible triboelectric nanogenerator using non-Newtonian fluid characteristics towards smart traffic and human-motion detecting system. <i>Nano Energy</i> , <b>2022</b> , 107246	17.1	4
14	Flexible Hybrid Nanogenerator for Self-Powered Weather and Healthcare Monitoring Sensor. <i>Advanced Electronic Materials</i> , 2100785	6.4	3
13	Liquid-metal embedded sponge-typed triboelectric nanogenerator for omnidirectionally detectable self-powered motion sensor. <i>Nano Energy</i> , <b>2021</b> , 89, 106442	17.1	3
12	Clay-assisted hierarchical growth of metal-telluride nanostructures as an anode material for hybrid supercapacitors. <i>Applied Clay Science</i> , <b>2022</b> , 225, 106539	5.2	3
11	Facile Fabrication of Double-Layered Electrodes for a Self-Powered Energy Conversion and Storage System. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2

10	Rational design of cobalt-iron bimetal layered hydroxide on conductive fabric as a flexible battery-type electrode for enhancing the performance of hybrid supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 904, 164082	5.7	2
9	Film-Sponge-Coupled Triboelectric Nanogenerator with Enhanced Contact Area Based on Direct Ultraviolet Laser Ablation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48281-48291	9.5	2
8	Co/Zn bimetal organic framework elliptical nanosheets on flexible conductive fabric for energy harvesting and environmental monitoring via triboelectricity. <i>Nano Energy</i> , <b>2021</b> , 89, 106355	17.1	2
7	Triboelectrification driven fin-fact (flip-flop actuated channel transistor) for security application <b>2017</b> ,		1
6	All-polymer waterproof triboelectric nanogenerator towards blue energy harvesting and self-powered human motion detection. <i>Energy</i> , <b>2022</b> , 247, 123422	7.9	1
5	Performance-Enhanced Triboelectric Nanogenerator Based on the Double-Layered Electrode Effect. <i>Polymers</i> , <b>2020</b> , 12,	4.5	1
4	Hybridized generator: Freely movable ferromagnetic nanoparticle-embedded balls for a self-powered tilt and direction sensor. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 41, 101063	3.9	1
3	Triboelectric energy harvester with an ultra-thin tribo-dielectric layer by initiated CVD and investigation of underlying physics in the triboelectricity <b>2016</b> ,		1
2	Hybridized generator to simultaneously harvest tribo-thermal energy induced by vibration of fluorine rich-beads. <i>Nano Energy</i> , <b>2022</b> , 97, 107211	17.1	1
1	Smart Sensors: Boosting a Power Performance of a Hybrid Nanogenerator via Frictional Heat Combining a Triboelectricity and Thermoelectricity toward Advanced Smart Sensors (Adv. Mater. Technol. 1/2021). <i>Advanced Materials Technologies</i> , <b>2021</b> , 6, 2170005	6.8	