

Ju-Hyuck Lee

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.

44
papers

4,513
citations

28
h-index

46
g-index

46
ext. papers

5,147
ext. citations

15.4
avg, IF

5.44
L-index

#	Paper	IF	Citations
44	2D Nanogenerators: Patchable and Implantable 2D Nanogenerator (Small 9/2021). <i>Small</i> , 2021 , 17, 2170039	11	15
43	Patchable and Implantable 2D Nanogenerator. <i>Small</i> , 2021 , 17, e1903519	11	15
42	M13 Virus Triboelectricity and Energy Harvesting. <i>Nano Letters</i> , 2021 , 21, 6851-6858	11.5	1
41	Simultaneous enhancement of specific capacitance and potential window of graphene-based electric double-layer capacitors using ferroelectric polymers. <i>Journal of Power Sources</i> , 2021 , 507, 230268	8.9	1
40	Biomolecular Piezoelectric Materials: From Amino Acids to Living Tissues. <i>Advanced Materials</i> , 2020 , 32, e1906989	24	50
39	Direct-current flexible piezoelectric nanogenerators based on two-dimensional ZnO nanosheet. <i>Applied Surface Science</i> , 2020 , 509, 145328	6.7	21
38	n-ZnO/p-NiO Core/Shell-Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , 2020 , 8, 2070103	3.5	1
37	Advances in piezoelectric halide perovskites for energy harvesting applications. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24353-24367	13	10
36	Recent Structure Development of Poly(vinylidene fluoride)-Based Piezoelectric Nanogenerator for Self-Powered Sensor. <i>Actuators</i> , 2020 , 9, 57	2.4	8
35	n-ZnO/p-NiO Core/Shell-Structured Nanorods for Piezoelectric Nanogenerators. <i>Energy Technology</i> , 2020 , 8, 2000462	3.5	1
34	Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. <i>Nano Letters</i> , 2019 , 19, 2661-2667	11.5	18
33	Bacteriophage nanofiber fabrication using near field electrospinning.. <i>RSC Advances</i> , 2019 , 9, 39111-39118	1.8	8
32	Point-Defect-Passivated MoS Nanosheet-Based High Performance Piezoelectric Nanogenerator. <i>Advanced Materials</i> , 2018 , 30, e1800342	24	78
31	Diphenylalanine Peptide Nanotube Energy Harvesters. <i>ACS Nano</i> , 2018 , 12, 8138-8144	16.7	83
30	High-Performance Piezoelectric, Pyroelectric, and Triboelectric Nanogenerators Based on P(VDF-TrFE) with Controlled Crystallinity and Dipole Alignment. <i>Advanced Functional Materials</i> , 2017 , 27, 1700702	15.6	106
29	High-Performance Triboelectric Nanogenerators Based on Solid Polymer Electrolytes with Asymmetric Pairing of Ions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700289	21.8	95
28	Research Update: Hybrid energy devices combining nanogenerators and energy storage systems for self-charging capability. <i>APL Materials</i> , 2017 , 5, 073804	5.7	46

27	Energy Harvesting: High-Performance Piezoelectric, Pyroelectric, and Triboelectric Nanogenerators Based on P(VDF-TrFE) with Controlled Crystallinity and Dipole Alignment (Adv. Funct. Mater. 22/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
26	Reliable Piezoelectricity in Bilayer WSe for Piezoelectric Nanogenerators. <i>Advanced Materials</i> , 2017 , 29, 1606667	24	114
25	Boosting Power-Generating Performance of Triboelectric Nanogenerators via Artificial Control of Ferroelectric Polarization and Dielectric Properties. <i>Advanced Energy Materials</i> , 2017 , 7, 1600988	21.8	153
24	Controllable Charge Transfer by Ferroelectric Polarization Mediated Triboelectricity. <i>Advanced Functional Materials</i> , 2016 , 26, 3067-3073	15.6	65
23	All-in-one energy harvesting and storage devices. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7983-7999	13	195
22	Micropatterned P(VDF-TrFE) Film-Based Piezoelectric Nanogenerators for Highly Sensitive Self-Powered Pressure Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 3203-3209	15.6	253
21	Self-powered transparent flexible graphene microheaters. <i>Nano Energy</i> , 2015 , 17, 356-365	17.1	33
20	Transparent Stretchable Self-Powered Patchable Sensor Platform with Ultrasensitive Recognition of Human Activities. <i>ACS Nano</i> , 2015 , 9, 8801-10	16.7	369
19	Control of Skin Potential by Triboelectrification with Ferroelectric Polymers. <i>Advanced Materials</i> , 2015 , 27, 5553-8	24	75
18	Thermally Induced Strain-Coupled Highly Stretchable and Sensitive Pyroelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2015 , 5, 1500704	21.8	39
17	Nanopatterned textile-based wearable triboelectric nanogenerator. <i>ACS Nano</i> , 2015 , 9, 3501-9	16.7	495
16	High-performance hybrid cell based on an organic photovoltaic device and a direct current piezoelectric nanogenerator. <i>Nano Energy</i> , 2015 , 12, 547-555	17.1	63
15	Hydrophobic sponge structure-based triboelectric nanogenerator. <i>Advanced Materials</i> , 2014 , 26, 5037-424	24	344
14	Depletion width engineering via surface modification for high performance semiconducting piezoelectric nanogenerators. <i>Nano Energy</i> , 2014 , 8, 165-173	17.1	61
13	Highly stretchable piezoelectric-pyroelectric hybrid nanogenerator. <i>Advanced Materials</i> , 2014 , 26, 765-924	24	382
12	Unidirectional High-Power Generation via Stress-Induced Dipole Alignment from ZnSnO ₃ Nanocubes/Polymer Hybrid Piezoelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2014 , 24, 37-43	15.6	190
11	Two-dimensional vanadium-doped ZnO nanosheet-based flexible direct current nanogenerator. <i>ACS Nano</i> , 2013 , 7, 8932-9	16.7	147
10	Highly sensitive stretchable transparent piezoelectric nanogenerators. <i>Energy and Environmental Science</i> , 2013 , 6, 169-175	35.4	179

9	Synthesis of monoclinic potassium niobate nanowires that are stable at room temperature. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6-9	16.4	66
8	Reliable operation of a nanogenerator under ultraviolet light via engineering piezoelectric potential. <i>Energy and Environmental Science</i> , 2013 , 6, 841	35.4	57
7	Coaxial fiber supercapacitor using all-carbon material electrodes. <i>ACS Nano</i> , 2013 , 7, 5940-7	16.7	452
6	Piezoelectric two-dimensional nanosheets/anionic layer heterojunction for efficient direct current power generation. <i>Scientific Reports</i> , 2013 , 3, 2017	4.9	95
5	All-solution-processed flexible thin film piezoelectric nanogenerator. <i>Advanced Materials</i> , 2012 , 24, 6022-7	24	118
4	Synthesis of Ga-doped ZnO nanorods using an aqueous solution method for a piezoelectric nanogenerator. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3430-3	1.3	14
3	Piezoelectric Materials: All-Solution-Processed Flexible Thin Film Piezoelectric Nanogenerator (Adv. Mater. 45/2012). <i>Advanced Materials</i> , 2012 , 24, 5972-5972	24	
2	Piezo/Triboelectric Effect Driven Self-Powered Gas Sensor for Environmental Sensor Networks. <i>Energy Technology</i> , 2200113	3.5	1
1	Plasticized PVC-Gel Single Layer-Based Stretchable Triboelectric Nanogenerator for Harvesting Mechanical Energy and Tactile Sensing. <i>Advanced Science</i> , 2201070	13.6	2