

Hanjun Ryu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3960815/hanjun-ryu-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36
papers

2,182
citations

21
h-index

41
g-index

41
ext. papers

2,797
ext. citations

18.7
avg, IF

5.52
L-index

#	Paper	IF	Citations
36	Transcutaneous ultrasound energy harvesting using capacitive triboelectric technology. <i>Science</i> , 2019 , 365, 491-494	33.3	347
35	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
34	Graphene Tribotronics for Electronic Skin and Touch Screen Applications. <i>Advanced Materials</i> , 2017 , 29, 1603544	24	160
33	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
32	Hybrid Energy Harvesters: Toward Sustainable Energy Harvesting. <i>Advanced Materials</i> , 2019 , 31, e1802898	24	114
31	Reliable Piezoelectricity in Bilayer WSe for Piezoelectric Nanogenerators. <i>Advanced Materials</i> , 2017 , 29, 1606667	24	114
30	Triboelectrification-Induced Large Electric Power Generation from a Single Moving Droplet on Graphene/Polytetrafluoroethylene. <i>ACS Nano</i> , 2016 , 10, 7297-302	16.7	112
29	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
28	Sustainable direct current powering a triboelectric nanogenerator via a novel asymmetrical design. <i>Energy and Environmental Science</i> , 2018 , 11, 2057-2063	35.4	102
27	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
26	Butylated melamine formaldehyde as a durable and highly positive friction layer for stable, high output triboelectric nanogenerators. <i>Energy and Environmental Science</i> , 2019 , 12, 3156-3163	35.4	78
25	Sustainable powering triboelectric nanogenerators: Approaches and the path towards efficient use. <i>Nano Energy</i> , 2018 , 51, 270-285	17.1	77
24	Control of Skin Potential by Triboelectrification with Ferroelectric Polymers. <i>Advanced Materials</i> , 2015 , 27, 5553-8	24	75
23	High Permittivity CaCu ₃ Ti ₄ O ₁₂ Particle-Induced Internal Polarization Amplification for High Performance Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2020 , 10, 1903524	21.8	44
22	Emerging Pyroelectric Nanogenerators to Convert Thermal Energy into Electrical Energy. <i>Small</i> , 2021 , 17, e1903469	11	41
21	Thermally Induced Strain-Coupled Highly Stretchable and Sensitive Pyroelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2015 , 5, 1500704	21.8	39
20	Three-dimensional, multifunctional neural interfaces for cortical spheroids and engineered assembloids. <i>Science Advances</i> , 2021 , 7,	14.3	38

19	Self-rechargeable cardiac pacemaker system with triboelectric nanogenerators. <i>Nature Communications</i> , 2021 , 12, 4374	17.4	35
18	Self-powered transparent flexible graphene microheaters. <i>Nano Energy</i> , 2015 , 17, 356-365	17.1	33
17	Research Update: Nanogenerators for self-powered autonomous wireless sensors. <i>APL Materials</i> , 2017 , 5, 073803	5.7	31
16	Wireless, skin-interfaced sensors for compression therapy. <i>Science Advances</i> , 2020 , 6,	14.3	26
15	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021 , 12, 5008	17.4	21
14	A Skin-Interfaced, Miniaturized Microfluidic Analysis and Delivery System for Colorimetric Measurements of Nutrients in Sweat and Supply of Vitamins Through the Skin. <i>Advanced Science</i> , 2021 , e2103331	13.6	13
13	Differential cardiopulmonary monitoring system for artifact-canceled physiological tracking of athletes, workers, and COVID-19 patients. <i>Science Advances</i> , 2021 , 7,	14.3	11
12	Piezoionic-powered graphene strain sensor based on solid polymer electrolyte. <i>Nano Energy</i> , 2021 , 81, 105610	17.1	9
11	Triboelectric Nanogenerators: High Permittivity CaCu ₃ Ti ₄ O ₁₂ Particle-Induced Internal Polarization Amplification for High Performance Triboelectric Nanogenerators (Adv. Energy Mater. 9/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070040	21.8	8
10	Transparent, Compliant 3D Mesostructures for Precise Evaluation of Mechanical Characteristics of Organoids. <i>Advanced Materials</i> , 2021 , 33, e2100026	24	8
9	Bioresorbable Metals for Biomedical Applications: From Mechanical Components to Electronic Devices. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002236	10.1	8
8	Skin-Integrated Devices with Soft, Holey Architectures for Wireless Physiological Monitoring, With Applications in the Neonatal Intensive Care Unit. <i>Advanced Materials</i> , 2021 , 33, e2103974	24	5
7	Graphene Tribotronics: Graphene Tribotronics for Electronic Skin and Touch Screen Applications (Adv. Mater. 1/2017). <i>Advanced Materials</i> , 2017 , 29,	24	3
6	Energy Harvesters: Hybrid Energy Harvesters: Toward Sustainable Energy Harvesting (Adv. Mater. 34/2019). <i>Advanced Materials</i> , 2019 , 31, 1970244	24	2
5	Recent development of the triboelectric properties of the polymer: A review. <i>Advanced Materials Letters</i> , 2018 , 9, 462-470	2.4	2
4	Bioresorbable Multilayer Photonic Cavities as Temporary Implants for Tether-Free Measurements of Regional Tissue Temperatures. <i>BME Frontiers</i> , 2021 , 2021, 1-14	4.4	2
3	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
2	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

1 3D Microstructures: Transparent, Compliant 3D Mesostructures for Precise Evaluation of Mechanical Characteristics of Organoids (Adv. Mater. 25/2021). *Advanced Materials*, **2021**, 33, 2170196 ²⁴