

Seung-Bae Jeon

List of Publications by Year in descending order

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43
papers

2,286
citations

172207

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264894

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44
all docs

44
docs citations

44
times ranked

2813
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertically stacked thin triboelectric nanogenerator for wind energy harvesting. Nano Energy, 2015, 14, 201-208.	8.2	170
2	Self-cleaning hybrid energy harvester to generate power from raindrop and sunlight. Nano Energy, 2015, 12, 636-645.	8.2	166
3	High-performance nanopattern triboelectric generator by block copolymer lithography. Nano Energy, 2015, 12, 331-338.	8.2	146
4	Ferrofluid-based triboelectric-electromagnetic hybrid generator for sensitive and sustainable vibration energy harvesting. Nano Energy, 2017, 31, 233-238.	8.2	127
5	First Demonstration of a Logic-Process Compatible Junctionless Ferroelectric FinFET Synapse for Neuromorphic Applications. IEEE Electron Device Letters, 2018, 39, 1445-1448.	2.2	121
6	Surface structural analysis of a friction layer for a triboelectric nanogenerator. Nano Energy, 2017, 42, 34-42.	8.2	89
7	Hybrid energy harvester with simultaneous triboelectric and electromagnetic generation from an embedded floating oscillator in a single package. Nano Energy, 2016, 23, 50-59.	8.2	86
8	Direct-laser-patterned friction layer for the output enhancement of a triboelectric nanogenerator. Nano Energy, 2017, 35, 379-386.	8.2	86
9	Comprehensive Analysis of Gate-Induced Drain Leakage in Vertically Stacked Nanowire FETs: Inversion-Mode Versus Junctionless Mode. IEEE Electron Device Letters, 2016, 37, 541-544.	2.2	74
10	Self-powered wearable keyboard with fabric based triboelectric nanogenerator. Nano Energy, 2018, 53, 596-603.	8.2	72
11	A Triboelectric Sponge Fabricated from a Cube Sugar Template by 3D Soft Lithography for Superhydrophobicity and Elasticity. Advanced Electronic Materials, 2016, 2, 1500331.	2.6	70
12	Self-powered fall detection system using pressure sensing triboelectric nanogenerators. Nano Energy, 2017, 41, 139-147.	8.2	64
13	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. Nano Letters, 2017, 17, 6443-6452.	4.5	62
14	Self-powered electro-coagulation system driven by a wind energy harvesting triboelectric nanogenerator for decentralized water treatment. Nano Energy, 2016, 28, 288-295.	8.2	61
15	Vertically Integrated Multiple Nanowire Field Effect Transistor. Nano Letters, 2015, 15, 8056-8061.	4.5	60
16	3-Dimensional broadband energy harvester based on internal hydrodynamic oscillation with a package structure. Nano Energy, 2015, 17, 82-90.	8.2	60
17	Triboelectric nanogenerator with nanostructured metal surface using water-assisted oxidation. Nano Energy, 2016, 21, 258-264.	8.2	59
18	Self-Powered Ion Concentration Sensor with Triboelectricity from Liquid-Solid Contact Electrification. Advanced Electronic Materials, 2016, 2, 1600006.	2.6	57

#	ARTICLE	IF	CITATIONS
19	Disk-based triboelectric nanogenerator operated by rotational force converted from linear force by a gear system. <i>Nano Energy</i> , 2018, 50, 489-496.	8.2	54
20	Triboelectric Nanogenerator Based on the Internal Motion of Powder with a Package Structure Design. <i>ACS Nano</i> , 2016, 10, 1017-1024.	7.3	53
21	Surface Engineering of Triboelectric Nanogenerator with an Electrodeposited Gold Nanoflower Structure. <i>Scientific Reports</i> , 2015, 5, 13866.	1.6	51
22	Foldable and Disposable Memory on Paper. <i>Scientific Reports</i> , 2016, 6, 38389.	1.6	43
23	Physically Transient Memory on a Rapidly Dissoluble Paper for Security Application. <i>Scientific Reports</i> , 2016, 6, 38324.	1.6	36
24	Self-sustainable wind speed sensor system with omni-directional wind based triboelectric generator. <i>Nano Energy</i> , 2019, 55, 115-122.	8.2	35
25	A Recoverable Synapse Device Using a Three-Dimensional Silicon Transistor. <i>Advanced Functional Materials</i> , 2018, 28, 1804844.	7.8	34
26	Performance-enhanced triboelectric nanogenerator using the glass transition of polystyrene. <i>Nano Energy</i> , 2016, 27, 306-312.	8.2	33
27	Bioinspired Polydopamine-Based Resistive Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900151.	3.0	33
28	Floating Oscillator-Embedded Triboelectric Generator for Versatile Mechanical Energy Harvesting. <i>Scientific Reports</i> , 2015, 5, 16409.	1.6	31
29	Logic circuits composed of flexible carbon nanotube thin-film transistor and ultra-thin polymer gate dielectric. <i>Scientific Reports</i> , 2016, 6, 26121.	1.6	29
30	Self-powered wearable touchpad composed of all commercial fabrics utilizing a crossline array of triboelectric generators. <i>Nano Energy</i> , 2019, 65, 103994.	8.2	27
31	Multidirection and Multi-amplitude Triboelectric Nanogenerator Composed of Porous Conductive Polymer with Prolonged Time of Current Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1800654.	10.2	26
32	A Comparative Study on Hot-Carrier Injection in 5-Story Vertically Integrated Inversion-Mode and Junctionless-Mode Gate-All-Around MOSFETs. <i>IEEE Electron Device Letters</i> , 2018, 39, 4-7.	2.2	26
33	Self-Powered Artificial Mechanoreceptor Based on Triboelectrification for a Neuromorphic Tactile System. <i>Advanced Science</i> , 2022, 9, e2105076.	5.6	26
34	Low-Frequency Noise Characteristics in SONOS Flash Memory With Vertically Stacked Nanowire FETs. <i>IEEE Electron Device Letters</i> , 2017, 38, 40-43.	2.2	23
35	Controlled anisotropic wetting of scalloped silicon nanogroove. <i>RSC Advances</i> , 2016, 6, 41914-41918.	1.7	16
36	Three-Dimensional Fin-Structured Semiconducting Carbon Nanotube Network Transistor. <i>ACS Nano</i> , 2016, 10, 10894-10900.	7.3	16

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37	Vertically Integrated Nanowire-Based Unified Memory. Nano Letters, 2016, 16, 5909-5916.	4.5	15
38	Electrothermal Annealing (ETA) Method to Enhance the Electrical Performance of Amorphous-Oxide-Semiconductor (AOS) Thin-Film Transistors (TFTs). ACS Applied Materials & Interfaces, 2016, 8, 23820-23826.	4.0	14
39	Self-powered data erasing of nanoscale flash memory by triboelectricity. Nano Energy, 2018, 52, 63-70.	8.2	11
40	A multi-directional wind based triboelectric generator with investigation of frequency effects. Extreme Mechanics Letters, 2018, 19, 46-53.	2.0	9
41	Joule Heating to Enhance the Performance of a Gate-All-Around Silicon Nanowire Transistor. IEEE Transactions on Electron Devices, 2016, 63, 2288-2292.	1.6	8
42	A Separate Extraction Method for Asymmetric Source and Drain Resistances Using Frequency-Dispersive C-V Characteristics in Exfoliated MoS ₂ FET. IEEE Electron Device Letters, 2016, 37, 231-233.	2.2	7
43	A novel triboelectric nanogenerator with high performance and long duration time of sinusoidal current generation. , 2017, , .		0