

Il-Woong Tcho

List of Publications by Year in descending order

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26
papers

1,079
citations

567281

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580821

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28
all docs

28
docs citations

28
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric Nanogenerator: Structure, Mechanism, and Applications. ACS Nano, 2021, 15, 258-287.	14.6	343
2	Surface structural analysis of a friction layer for a triboelectric nanogenerator. Nano Energy, 2017, 42, 34-42.	16.0	89
3	Direct-laser-patterned friction layer for the output enhancement of a triboelectric nanogenerator. Nano Energy, 2017, 35, 379-386.	16.0	86
4	Triboelectric nanogenerator based on rolling motion of beads for harvesting wind energy as active wind speed sensor. Nano Energy, 2018, 52, 256-263.	16.0	74
5	Self-powered wearable keyboard with fabric based triboelectric nanogenerator. Nano Energy, 2018, 53, 596-603.	16.0	72
6	Self-powered fall detection system using pressure sensing triboelectric nanogenerators. Nano Energy, 2017, 41, 139-147.	16.0	64
7	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. Nano Letters, 2017, 17, 6443-6452.	9.1	62
8	Disk-based triboelectric nanogenerator operated by rotational force converted from linear force by a gear system. Nano Energy, 2018, 50, 489-496.	16.0	54
9	Performance-enhanced triboelectric nanogenerator using the glass transition of polystyrene. Nano Energy, 2016, 27, 306-312.	16.0	33
10	A flutter-driven triboelectric nanogenerator for harvesting energy of gentle breezes with a rear-fixed fluttering film. Nano Energy, 2022, 98, 107197.	16.0	31
11	Self-powered wearable touchpad composed of all commercial fabrics utilizing a crossline array of triboelectric generators. Nano Energy, 2019, 65, 103994.	16.0	27
12	Self-Powered Artificial Mechanoreceptor Based on Triboelectrification for a Neuromorphic Tactile System. Advanced Science, 2022, 9, e2105076.	11.2	26
13	A self-powered character recognition device based on a triboelectric nanogenerator. Nano Energy, 2020, 70, 104534.	16.0	23
14	Random number generator with a chaotic wind-driven triboelectric energy harvester. Nano Energy, 2020, 78, 105275.	16.0	17
15	3D Carbon Electrode Based Triboelectric Nanogenerator. Advanced Materials Technologies, 2016, 1, 1600160.	5.8	16
16	Mechanically robust triboelectric nanogenerator with a shear thickening fluid for impact monitoring. Journal of Materials Chemistry A, 2022, 10, 10383-10390.	10.3	12
17	Self-powered data erasing of nanoscale flash memory by triboelectricity. Nano Energy, 2018, 52, 63-70.	16.0	11
18	A multi-directional wind based triboelectric generator with investigation of frequency effects. Extreme Mechanics Letters, 2018, 19, 46-53.	4.1	9

#	ARTICLE	IF	CITATIONS
19	A triboelectric nanogenerator implemented with an acoustic foam for a self-driven silent tire. Nano Energy, 2022, 96, 107090.	16.0	8
20	Triboelectric nanogenerator for a repairable transistor with self-powered electro-thermal annealing. Nano Energy, 2020, 76, 105000.	16.0	7
21	Strategy to enhance entropy of random numbers in a wind-driven triboelectric random number generator. Nano Energy, 2021, 89, 106359.	16.0	5
22	On-Chip Curing by Microwave for Long Term Usage of Electronic Devices in Harsh Environments. Scientific Reports, 2018, 8, 14953.	3.3	4
23	Ternary logic decoder using independently controlled double-gate Si-NW MOSFETs. Scientific Reports, 2021, 11, 13018.	3.3	2
24	Reliability Improvement of Gate-All-Around SONOS Memory by Joule Heat From Gate-Induced Drain Leakage Current. IEEE Transactions on Electron Devices, 2022, 69, 115-119.	3.0	2
25	Concealable Oscillation-Based Physical Unclonable Function With a Single-Transistor Latch. IEEE Electron Device Letters, 2022, 43, 1359-1362.	3.9	2
26	A novel triboelectric nanogenerator with high performance and long duration time of sinusoidal current generation. , 2017, , .		0