

Il-Woong Tcho

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,079
citations

567281

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580821

25
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all docs

28
docs citations

28
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Powered Artificial Mechanoreceptor Based on Triboelectrification for a Neuromorphic Tactile System. <i>Advanced Science</i> , 2022, 9, e2105076.	11.2	26
2	Reliability Improvement of Gate-All-Around SONOS Memory by Joule Heat From Gate-Induced Drain Leakage Current. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 115-119.	3.0	2
3	Mechanically robust triboelectric nanogenerator with a shear thickening fluid for impact monitoring. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10383-10390.	10.3	12
4	A flutter-driven triboelectric nanogenerator for harvesting energy of gentle breezes with a rear-fixed fluttering film. <i>Nano Energy</i> , 2022, 98, 107197.	16.0	31
5	A triboelectric nanogenerator implemented with an acoustic foam for a self-driven silent tire. <i>Nano Energy</i> , 2022, 96, 107090.	16.0	8
6	Concealable Oscillation-Based Physical Unclonable Function With a Single-Transistor Latch. <i>IEEE Electron Device Letters</i> , 2022, 43, 1359-1362.	3.9	2
7	Triboelectric Nanogenerator: Structure, Mechanism, and Applications. <i>ACS Nano</i> , 2021, 15, 258-287.	14.6	343
8	Ternary logic decoder using independently controlled double-gate Si-NW MOSFETs. <i>Scientific Reports</i> , 2021, 11, 13018.	3.3	2
9	Strategy to enhance entropy of random numbers in a wind-driven triboelectric random number generator. <i>Nano Energy</i> , 2021, 89, 106359.	16.0	5
10	Random number generator with a chaotic wind-driven triboelectric energy harvester. <i>Nano Energy</i> , 2020, 78, 105275.	16.0	17
11	Triboelectric nanogenerator for a repairable transistor with self-powered electro-thermal annealing. <i>Nano Energy</i> , 2020, 76, 105000.	16.0	7
12	A self-powered character recognition device based on a triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 70, 104534.	16.0	23
13	Self-powered wearable touchpad composed of all commercial fabrics utilizing a crossline array of triboelectric generators. <i>Nano Energy</i> , 2019, 65, 103994.	16.0	27
14	A multi-directional wind based triboelectric generator with investigation of frequency effects. <i>Extreme Mechanics Letters</i> , 2018, 19, 46-53.	4.1	9
15	On-Chip Curing by Microwave for Long Term Usage of Electronic Devices in Harsh Environments. <i>Scientific Reports</i> , 2018, 8, 14953.	3.3	4
16	Self-powered wearable keyboard with fabric based triboelectric nanogenerator. <i>Nano Energy</i> , 2018, 53, 596-603.	16.0	72
17	Disk-based triboelectric nanogenerator operated by rotational force converted from linear force by a gear system. <i>Nano Energy</i> , 2018, 50, 489-496.	16.0	54
18	Self-powered data erasing of nanoscale flash memory by triboelectricity. <i>Nano Energy</i> , 2018, 52, 63-70.	16.0	11

#	ARTICLE	IF	CITATIONS
19	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
20	Direct-laser-patterned friction layer for the output enhancement of a triboelectric nanogenerator. Nano Energy, 2017, 35, 379-386.	16.0	86
21	Surface structural analysis of a friction layer for a triboelectric nanogenerator. Nano Energy, 2017, 42, 34-42.	16.0	89
22	Self-powered fall detection system using pressure sensing triboelectric nanogenerators. Nano Energy, 2017, 41, 139-147.	16.0	64
23	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. Nano Letters, 2017, 17, 6443-6452.	9.1	62
24	A novel triboelectric nanogenerator with high performance and long duration time of sinusoidal current generation. , 2017, , .		0
25	Performance-enhanced triboelectric nanogenerator using the glass transition of polystyrene. Nano Energy, 2016, 27, 306-312.	16.0	33
26	3D Carbon Electrode Based Triboelectric Nanogenerator. Advanced Materials Technologies, 2016, 1, 1600160.	5.8	16