

Jae Hyun Han

List of Publications by Year in descending order

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19
papers

1,921
citations

687363

13
h-index

839539

18
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19
docs citations

19
times ranked

2291
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors. <i>Advanced Materials</i> , 2017, 29, 1702308.	21.0	495
2	Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester. <i>Advanced Energy Materials</i> , 2016, 6, 1600237.	19.5	179
3	In Vivo Self-Powered Wireless Transmission Using Biocompatible Flexible Energy Harvesters. <i>Advanced Functional Materials</i> , 2017, 27, 1700341.	14.9	160
4	Flexible Piezoelectric Acoustic Sensors and Machine Learning for Speech Processing. <i>Advanced Materials</i> , 2020, 32, e1904020.	21.0	155
5	Comprehensive biocompatibility of nontoxic and high-output flexible energy harvester using lead-free piezoceramic thin film. <i>APL Materials</i> , 2017, 5, .	5.1	121
6	Machine learning-based self-powered acoustic sensor for speaker recognition. <i>Nano Energy</i> , 2018, 53, 658-665.	16.0	121
7	Performance-enhanced triboelectric nanogenerator enabled by wafer-scale nanogrates of multistep pattern downscaling. <i>Nano Energy</i> , 2017, 35, 415-423.	16.0	120
8	A Reconfigurable Rectified Flexible Energy Harvester via Solid-State Single Crystal Grown PMN-PZT. <i>Advanced Energy Materials</i> , 2015, 5, 1500051.	19.5	116
9	Biomimetic and flexible piezoelectric mobile acoustic sensors with multiresonant ultrathin structures for machine learning biometrics. <i>Science Advances</i> , 2021, 7, .	10.3	104
10	Performance improvement of flexible piezoelectric energy harvester for irregular human motion with energy extraction enhancement circuit. <i>Nano Energy</i> , 2019, 58, 211-219.	16.0	88
11	Flexible highly-effective energy harvester via crystallographic and computational control of nanointerfacial morphotropic piezoelectric thin film. <i>Nano Research</i> , 2017, 10, 437-455.	10.4	86
12	Basilar membrane-inspired self-powered acoustic sensor enabled by highly sensitive multi tunable frequency band. <i>Nano Energy</i> , 2018, 53, 198-205.	16.0	85
13	Flexible Self-Charging, Ultrafast, High-Power-Density Ceramic Capacitor System. <i>ACS Energy Letters</i> , 0, , 1383-1391.	17.4	36
14	Dual-Structured Flexible Piezoelectric Film Energy Harvesters for Effectively Integrated Performance. <i>Sensors</i> , 2019, 19, 1444.	3.8	27
15	Speech Recognition: Flexible Piezoelectric Acoustic Sensors and Machine Learning for Speech Processing (<i>Adv. Mater.</i> 35/2020). <i>Advanced Materials</i> , 2020, 32, 2070259.	21.0	8
16	Autonomous Microcapillary Drug Delivery System Self-Powered by a Flexible Energy Harvester. <i>Advanced Materials Technologies</i> , 2021, 6, 2100526.	5.8	7
17	A Harvesting Circuit for Flexible Thin-Film Piezoelectric Generator Achieving 562% Energy Extraction Improvement With Load Screening. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 12310-12321.	7.9	5
18	Self-Powered Devices: Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester (<i>Adv. Energy Mater.</i> 13/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	4

#	ARTICLE	IF	CITATIONS
19	Piezoelectric Sensors: Self-Powered Real-Time Arterial Pulse Monitoring Using Ultrathin Epidermal Piezoelectric Sensors (Adv. Mater. 37/2017). Advanced Materials, 2017, 29, .	21.0	4