

Peng Bai

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

8,415
citations

218381

26
h-index

552369

26
g-index

26
all docs

26
docs citations

26
times ranked

4851
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Large-Scale Energy Harvesting by a Nanoparticle-Enhanced Triboelectric Nanogenerator. <i>Nano Letters</i> , 2013, 13, 847-853.	4.5	979
2	Harmonic Resonator-Based Triboelectric Nanogenerator as a Sustainable Power Source and a Self-Powered Active Vibration Sensor. <i>Advanced Materials</i> , 2013, 25, 6094-6099.	11.1	672
3	Integrated Multilayered Triboelectric Nanogenerator for Harvesting Biomechanical Energy from Human Motions. <i>ACS Nano</i> , 2013, 7, 3713-3719.	7.3	538
4	Triboelectric Nanogenerator for Harvesting Wind Energy and as Self-Powered Wind Vector Sensor System. <i>ACS Nano</i> , 2013, 7, 9461-9468.	7.3	524
5	Harvesting Water Wave Energy by Asymmetric Screening of Electrostatic Charges on a Nanostructured Hydrophobic Thin-Film Surface. <i>ACS Nano</i> , 2014, 8, 6031-6037.	7.3	471
6	Harvesting Energy from the Natural Vibration of Human Walking. <i>ACS Nano</i> , 2013, 7, 11317-11324.	7.3	448
7	Linear-Grating Triboelectric Generator Based on Sliding Electrification. <i>Nano Letters</i> , 2013, 13, 2282-2289.	4.5	442
8	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. <i>ACS Nano</i> , 2015, 9, 4236-4243.	7.3	419
9	A Shape-Adaptive Thin-Film-Based Approach for 50% High-Efficiency Energy Generation Through Micro-Grating Sliding Electrification. <i>Advanced Materials</i> , 2014, 26, 3788-3796.	11.1	415
10	Self-Powered, Ultrasensitive, Flexible Tactile Sensors Based on Contact Electrification. <i>Nano Letters</i> , 2014, 14, 3208-3213.	4.5	405
11	A Self-Powered Triboelectric Nanosensor for Mercury Ion Detection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5065-5069.	7.2	323
12	Power-generating shoe insole based on triboelectric nanogenerators for self-powered consumer electronics. <i>Nano Energy</i> , 2013, 2, 688-692.	8.2	292
13	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014, 4, 1301322.	10.2	280
14	Hybrid triboelectric nanogenerator for harvesting water wave energy and as a self-powered distress signal emitter. <i>Nano Energy</i> , 2014, 9, 186-195.	8.2	268
15	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. <i>Advanced Functional Materials</i> , 2014, 24, 4090-4096.	7.8	263
16	Membrane-Based Self-Powered Triboelectric Sensors for Pressure Change Detection and Its Uses in Security Surveillance and Healthcare Monitoring. <i>Advanced Functional Materials</i> , 2014, 24, 5807-5813.	7.8	250
17	Cylindrical Rotating Triboelectric Nanogenerator. <i>ACS Nano</i> , 2013, 7, 6361-6366.	7.3	249
18	Personalized Keystroke Dynamics for Self-Powered Human-Machine Interfacing. <i>ACS Nano</i> , 2015, 9, 105-116.	7.3	239

#	ARTICLE	IF	CITATIONS
19	Harvesting vibration energy by a triple-cantilever based triboelectric nanogenerator. Nano Research, 2013, 6, 880-886.	5.8	209
20	Dipole-moment-induced effect on contact electrification for triboelectric nanogenerators. Nano Research, 2014, 7, 990-997.	5.8	180
21	Case-Encapsulated Triboelectric Nanogenerator for Harvesting Energy from Reciprocating Sliding Motion. ACS Nano, 2014, 8, 3836-3842.	7.3	137
22	Nanometer Resolution Self-Powered Static and Dynamic Motion Sensor Based on Micro-Grated Triboelectrification. Advanced Materials, 2014, 26, 1719-1724.	11.1	129
23	A Self-Powered Angle Measurement Sensor Based on Triboelectric Nanogenerator. Advanced Functional Materials, 2015, 25, 2166-2174.	7.8	119
24	Self-powered triboelectric velocity sensor for dual-mode sensing of rectified linear and rotary motions. Nano Energy, 2014, 10, 305-312.	8.2	78
25	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. Nano Energy, 2015, 12, 278-286.	8.2	34