Peng Bai

List of Publications by Year in Descending Order

26 papers	6,972 citations	26 h-index	26 g-index
26 ext. papers	7,684 ext. citations	15.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
26	Personalized keystroke dynamics for self-powered human--machine interfacing. *ACS Nano*, **2015**, 9, 105-16	16.4	195
25	Ultrathin, rollable, paper-based triboelectric nanogenerator for acoustic energy harvesting and self-powered sound recording. *ACS Nano*, **2015**, 9, 4236-43	16.4	323
24	A Self-Powered Angle Measurement Sensor Based on Triboelectric Nanogenerator. *Advanced Functional Materials*, **2015**, 25, 2166-2174	15.4	103
23	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. *Nano Energy*, **2015**, 12, 278-286	16.9	32
22	Membrane-Based Self-Powered Triboelectric Sensors for Pressure Change Detection and Its Uses in Security Surveillance and Healthcare Monitoring. *Advanced Functional Materials*, **2014**, 24, 5807-5813	15.4	199
21	Self-powered triboelectric velocity sensor for dual-mode sensing of rectified linear and rotary motions. *Nano Energy*, **2014**, 10, 305-312	16.9	65
20	Case-encapsulated triboelectric nanogenerator for harvesting energy from reciprocating sliding motion. *ACS Nano*, **2014**, 8, 3836-42	16.4	119
19	Hybrid triboelectric nanogenerator for harvesting water wave energy and as a self-powered distress signal emitter. *Nano Energy*, **2014**, 9, 186-195	16.9	232
18	Self-powered, ultrasensitive, flexible tactile sensors based on contact electrification. *Nano Letters*, **2014**, 14, 3208-13	11.3	352
17	Dipole-moment-induced effect on contact electrification for triboelectric nanogenerators. *Nano Research*, **2014**, 7, 990-997	9.9	139
16	Harvesting water wave energy by asymmetric screening of electrostatic charges on a nanostructured hydrophobic thin-film surface. *ACS Nano*, **2014**, 8, 6031-7	16.4	376
15	A shape-adaptive thin-film-based approach for 50% high-efficiency energy generation through micro-grating sliding electrification. *Advanced Materials*, **2014**, 26, 3788-96	23.6	346
14	Nanometer resolution self-powered static and dynamic motion sensor based on micro-grated triboelectrification. *Advanced Materials*, **2014**, 26, 1719-24	23.6	102
13	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. *Advanced Energy Materials*, **2014**, 4, 1301322	21.6	232
12	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. *Advanced Functional Materials*, **2014**, 24, 4090-4096	15.4	213
11	Power-generating shoe insole based on triboelectric nanogenerators for self-powered consumer electronics. *Nano Energy*, **2013**, 2, 688-692	16.9	248
10	Harmonic-resonator-based triboelectric nanogenerator as a sustainable power source and a self-powered active vibration sensor. *Advanced Materials*, **2013**, 25, 6094-9	23.6	572

9	Cylindrical rotating triboelectric nanogenerator. *ACS Nano*, **2013**, 7, 6361-6	16.4	201
8	Harvesting vibration energy by a triple-cantilever based triboelectric nanogenerator. *Nano Research* , **2013**, 6, 880-886	9.9	161
7	Triboelectric nanogenerator for harvesting wind energy and as self-powered wind vector sensor system. *ACS Nano*, **2013**, 7, 9461-8	16.4	424
6	Integrated multilayered triboelectric nanogenerator for harvesting biomechanical energy from human motions. *ACS Nano*, **2013**, 7, 3713-9	16.4	444
5	Linear-grating triboelectric generator based on sliding electrification. *Nano Letters*, **2013**, 13, 2282-9	11.3	378
4	Toward large-scale energy harvesting by a nanoparticle-enhanced triboelectric nanogenerator. *Nano Letters*, **2013**, 13, 847-53	11.3	804
3	Harvesting energy from the natural vibration of human walking. *ACS Nano*, **2013**, 7, 11317-24	16.4	400
2	A self-powered triboelectric nanosensor for mercury ion detection. *Angewandte Chemie - International Edition*, **2013**, 52, 5065-9	16.1	270
1	A Self-Powered Triboelectric Nanosensor for Mercury Ion Detection. *Angewandte Chemie*, **2013**, 125, 5169-5173	3.5	42