

Yusheng Zhou

List of Publications by Year in descending order

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48
papers

13,697
citations

57631

44
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197535

49
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49
all docs

49
docs citations

49
times ranked

7933
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical study of contact-mode triboelectric nanogenerators as an effective power source. Energy and Environmental Science, 2013, 6, 3576.	15.6	1,380
2	Toward Large-Scale Energy Harvesting by a Nanoparticle-Enhanced Triboelectric Nanogenerator. Nano Letters, 2013, 13, 847-853.	4.5	979
3	Triboelectric-Generator-Driven Pulse Electrodeposition for Micropatterning. Nano Letters, 2012, 12, 4960-4965.	4.5	874
4	Human Skin Based Triboelectric Nanogenerators for Harvesting Biomechanical Energy and as Self-Powered Active Tactile Sensor System. ACS Nano, 2013, 7, 9213-9222.	7.3	667
5	Pyroelectric Nanogenerators for Harvesting Thermoelectric Energy. Nano Letters, 2012, 12, 2833-2838.	4.5	639
6	Theory of Sliding-Mode Triboelectric Nanogenerators. Advanced Materials, 2013, 25, 6184-6193.	11.1	581
7	A universal self-charging system driven by random biomechanical energy for sustainable operation of mobile electronics. Nature Communications, 2015, 6, 8975.	5.8	526
8	Single-Electrode-Based Sliding Triboelectric Nanogenerator for Self-Powered Displacement Vector Sensor System. ACS Nano, 2013, 7, 7342-7351.	7.3	523
9	Maximum Surface Charge Density for Triboelectric Nanogenerators Achieved by Ionized-Air Injection: Methodology and Theoretical Understanding. Advanced Materials, 2014, 26, 6720-6728.	11.1	517
10	Theoretical Investigation and Structural Optimization of Single-Electrode Triboelectric Nanogenerators. Advanced Functional Materials, 2014, 24, 3332-3340.	7.8	513
11	Linear-Grating Triboelectric Generator Based on Sliding Electrification. Nano Letters, 2013, 13, 2282-2289.	4.5	442
12	A Shape-Adaptive Thin-Film-Based Approach for 50% High-Efficiency Energy Generation Through Micro-Grating Sliding Electrification. Advanced Materials, 2014, 26, 3788-3796.	11.1	415
13	Theory of freestanding triboelectric-layer-based nanogenerators. Nano Energy, 2015, 12, 760-774.	8.2	409
14	Self-Powered, Ultrasensitive, Flexible Tactile Sensors Based on Contact Electrification. Nano Letters, 2014, 14, 3208-3213.	4.5	405
15	A Self-Powered Triboelectric Nanosensor for Mercury Ion Detection. Angewandte Chemie - International Edition, 2013, 52, 5065-5069.	7.2	323
16	Stretchable-Rubber-Based Triboelectric Nanogenerator and Its Application as Self-Powered Body Motion Sensors. Advanced Functional Materials, 2015, 25, 3688-3696.	7.8	320
17	A Single-Electrode Based Triboelectric Nanogenerator as Self-Powered Tracking System. Advanced Materials, 2013, 25, 6594-6601.	11.1	299
18	Functional Electrical Stimulation by Nanogenerator with 58 V Output Voltage. Nano Letters, 2012, 12, 3086-3090.	4.5	288

#	ARTICLE	IF	CITATIONS
19	Molecular surface functionalization to enhance the power output of triboelectric nanogenerators. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3728-3734.	5.2	257
20	Simulation method for optimizing the performance of an integrated triboelectric nanogenerator energy harvesting system. <i>Nano Energy</i> , 2014, 8, 150-156.	8.2	214
21	In Situ Quantitative Study of Nanoscale Triboelectrification and Patterning. <i>Nano Letters</i> , 2013, 13, 2771-2776.	4.5	210
22	Thermoelectric Nanogenerators Based on Single Sb-Doped ZnO Micro/Nanobelts. <i>ACS Nano</i> , 2012, 6, 6984-6989.	7.3	199
23	A theoretical study of grating structured triboelectric nanogenerators. <i>Energy and Environmental Science</i> , 2014, 7, 2339-2349.	15.6	194
24	Single-Electrode-Based Rotating Triboelectric Nanogenerator for Harvesting Energy from Tires. <i>ACS Nano</i> , 2014, 8, 680-689.	7.3	182
25	Triboelectric Nanogenerator as an Active UV Photodetector. <i>Advanced Functional Materials</i> , 2014, 24, 2810-2816.	7.8	180
26	Dipole-moment-induced effect on contact electrification for triboelectric nanogenerators. <i>Nano Research</i> , 2014, 7, 990-997.	5.8	180
27	Manipulating Nanoscale Contact Electrification by an Applied Electric Field. <i>Nano Letters</i> , 2014, 14, 1567-1572.	4.5	175
28	A hybrid energy cell for self-powered water splitting. <i>Energy and Environmental Science</i> , 2013, 6, 2429.	15.6	162
29	Single Micro/Nanowire Pyroelectric Nanogenerators as Self-Powered Temperature Sensors. <i>ACS Nano</i> , 2012, 6, 8456-8461.	7.3	149
30	Enhanced Performance of Flexible ZnO Nanowire Based Room-Temperature Oxygen Sensors by Piezotronic Effect. <i>Advanced Materials</i> , 2013, 25, 3701-3706.	11.1	146
31	Optimization of Triboelectric Nanogenerator Charging Systems for Efficient Energy Harvesting and Storage. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 641-647.	1.6	144
32	Nanometer Resolution Self-Powered Static and Dynamic Motion Sensor Based on Micro-Grated Triboelectrification. <i>Advanced Materials</i> , 2014, 26, 1719-1724.	11.1	129
33	Piezotronic Effect in Solution-Grown p-Type ZnO Nanowires and Films. <i>Nano Letters</i> , 2013, 13, 2647-2653.	4.5	118
34	Strain-Gated Piezotronic Transistors Based on Vertical Zinc Oxide Nanowires. <i>ACS Nano</i> , 2012, 6, 3760-3766.	7.3	113
35	Lead-free KNbO_3 ferroelectric nanorod based flexible nanogenerators and capacitors. <i>Nanotechnology</i> , 2012, 23, 375401.	1.3	111
36	Flexible and Transparent Nanogenerators Based on a Composite of Lead-Free ZnSnO_3 Triangular Belts. <i>Advanced Materials</i> , 2012, 24, 6094-6099.	11.1	110

#	ARTICLE	IF	CITATIONS
37	Vertically Aligned CdSe Nanowire Arrays for Energy Harvesting and Piezotronic Devices. ACS Nano, 2012, 6, 6478-6482.	7.3	91
38	Nano-Newton Transverse Force Sensor Using a Vertical GaN Nanowire based on the Piezotronic Effect. Advanced Materials, 2013, 25, 883-888.	11.1	89
39	Synthesis of vertically aligned ultra-long ZnO nanowires on heterogeneous substrates with catalyst at the root. Nanotechnology, 2012, 23, 055604.	1.3	74
40	Theoretical Study of Piezophototronic Nano-LEDs. Advanced Materials, 2014, 26, 7209-7216.	11.1	64
41	Excluding Contact Electrification in Surface Potential Measurement Using Kelvin Probe Force Microscopy. ACS Nano, 2016, 10, 2528-2535.	7.3	60
42	Anisotropic Outputs of a Nanogenerator from Oblique-Aligned ZnO Nanowire Arrays. ACS Nano, 2011, 5, 6707-6713.	7.3	56
43	Electricity generation based on vertically aligned PbZr _{0.2} Ti _{0.8} O ₃ nanowire arrays. Nano Energy, 2012, 1, 424-428.	8.2	46
44	Effect of contact- and sliding-mode electrification on nanoscale charge transfer for energy harvesting. Nano Research, 2016, 9, 3705-3713.	5.8	33
45	In Situ Observation of Dehydration-Induced Phase Transformation from Na ₂ Nb ₂ O ₆ · 2H ₂ O to NaNbO ₃ . Journal of Physical Chemistry C, 2012, 116, 22261-22265.	1.5	23
46	Rational design of hybrid dye-sensitized solar cells composed of double-layered photoanodes with enhanced power conversion efficiency. Journal of Materials Chemistry A, 2014, 2, 11035-11039.	5.2	17
47	Cantilevered bimorph-based scanner for high speed atomic force microscopy with large scanning range. Review of Scientific Instruments, 2010, 81, 053708.	0.6	13
48	An alternative flat scanner and micropositioning method for scanning probe microscope. Review of Scientific Instruments, 2010, 81, 123701.	0.6	6