

# Ying Liu

## List of Publications by Citations

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30  
papers

7,227  
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ext. papers

8,023  
ext. citations

16.6  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
30	Theoretical study of contact-mode triboelectric nanogenerators as an effective power source. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3576	35.4	990
29	Piezoelectric BaTiO <sub>3</sub> thin film nanogenerator on plastic substrates. <i>Nano Letters</i> , <b>2010</b> , 10, 4939-43	11.5	597
28	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. <i>Nature Photonics</i> , <b>2013</b> , 7, 752-758	33.9	534
27	Flexible nanocomposite generator made of BaTiO <sub>3</sub> nanoparticles and graphitic carbons. <i>Advanced Materials</i> , <b>2012</b> , 24, 2999-3004, 2937	24	511
26	Theory of sliding-mode triboelectric nanogenerators. <i>Advanced Materials</i> , <b>2013</b> , 25, 6184-93	24	430
25	Linear-grating triboelectric generator based on sliding electrification. <i>Nano Letters</i> , <b>2013</b> , 13, 2282-9	11.5	378
24	Fundamental theory of piezotronics. <i>Advanced Materials</i> , <b>2011</b> , 23, 3004-13	24	372
23	Theoretical Investigation and Structural Optimization of Single-Electrode Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3332-3340	15.6	364
22	Hybrid nanogenerator for concurrently harvesting biomechanical and biochemical energy. <i>ACS Nano</i> , <b>2010</b> , 4, 3647-52	16.7	338
21	Triboelectrification-based organic film nanogenerator for acoustic energy harvesting and self-powered active acoustic sensing. <i>ACS Nano</i> , <b>2014</b> , 8, 2649-57	16.7	307
20	BaTiO <sub>3</sub> Nanotubes-Based Flexible and Transparent Nanogenerators. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3599-604	6.4	271
19	A single-electrode based triboelectric nanogenerator as self-powered tracking system. <i>Advanced Materials</i> , <b>2013</b> , 25, 6594-601	24	239
18	Cylindrical rotating triboelectric nanogenerator. <i>ACS Nano</i> , <b>2013</b> , 7, 6361-6	16.7	201
17	Ordered nanowire array blue/near-UV light emitting diodes. <i>Advanced Materials</i> , <b>2010</b> , 22, 4749-53	24	192
16	Largely enhanced efficiency in ZnO nanowire/p-polymer hybridized inorganic/organic ultraviolet light-emitting diode by piezo-phototronic effect. <i>Nano Letters</i> , <b>2013</b> , 13, 607-13	11.5	190
15	Piezo-phototronic effect enhanced visible/UV photodetector of a carbon-fiber/ZnO-CdS double-shell microwire. <i>ACS Nano</i> , <b>2013</b> , 7, 4537-44	16.7	175
14	In situ quantitative study of nanoscale triboelectrification and patterning. <i>Nano Letters</i> , <b>2013</b> , 13, 2771-6	11.5	163

13	Enhanced Cu <sub>2</sub> S/CdS coaxial nanowire solar cells by piezo-phototronic effect. <i>Nano Letters</i> , <b>2012</b> , 12, 3302-3307	17.5	161
12	Manipulating nanoscale contact electrification by an applied electric field. <i>Nano Letters</i> , <b>2014</b> , 14, 1567-1572	12.5	135
11	Fundamental theories of piezotronics and piezo-phototronics. <i>Nano Energy</i> , <b>2015</b> , 14, 257-275	17.1	118
10	Nanowire piezo-phototronic photodetector: theory and experimental design. <i>Advanced Materials</i> , <b>2012</b> , 24, 1410-7	24	107
9	Wavelength tunable CdSe nanowire lasers based on the absorption-emission-absorption process. <i>Advanced Materials</i> , <b>2013</b> , 25, 833-7, 832	24	100
8	Hybrid cells for simultaneously harvesting multi-type energies for self-powered micro/nanosystems. <i>Nano Energy</i> , <b>2012</b> , 1, 259-272	17.1	87
7	Temperature dependence of the piezotronic effect in ZnO nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 5026-32	11.5	66
6	Reversible luminescence switching of NaYF <sub>4</sub> :Yb,Er nanoparticles with controlled assembly of gold nanoparticles. <i>Chemical Communications</i> , <b>2009</b> , 2547-9	5.8	62
5	Self-powered ultrasensitive nanowire photodetector driven by a hybridized microbial fuel cell. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6443-6	16.4	44
4	Electrical tuning of surface plasmon polariton propagation in graphene-nanowire hybrid structure. <i>ACS Nano</i> , <b>2014</b> , 8, 2584-9	16.7	43
3	Features of the piezo-phototronic effect on optoelectronic devices based on wurtzite semiconductor nanowires. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2790-800	3.6	25
2	Crumpling under an ambient pressure. <i>Physical Review Letters</i> , <b>2008</b> , 101, 125504	7.4	25
1	Piezo-phototronic effect and its applications in flexible optoelectronic and energy technologies <b>2011</b> ,		1