

Ying Liu

List of Publications by Year in descending order

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31
papers

8,925
citations

186265

28
h-index

477307

29
g-index

31
all docs

31
docs citations

31
times ranked

7799
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental theories of piezotronics and piezo-phototronics. Nano Energy, 2015, 14, 257-275.	16.0	157
2	Theoretical Investigation and Structural Optimization of Single-Electrode Triboelectric Nanogenerators. Advanced Functional Materials, 2014, 24, 3332-3340.	14.9	513
3	Features of the piezo-phototronic effect on optoelectronic devices based on wurtzite semiconductor nanowires. Physical Chemistry Chemical Physics, 2014, 16, 2790.	2.8	28
4	Manipulating Nanoscale Contact Electrification by an Applied Electric Field. Nano Letters, 2014, 14, 1567-1572.	9.1	175
5	Triboelectrification-Based Organic Film Nanogenerator for Acoustic Energy Harvesting and Self-Powered Active Acoustic Sensing. ACS Nano, 2014, 8, 2649-2657.	14.6	390
6	Electrical Tuning of Surface Plasmon Polariton Propagation in Graphene-Nanowire Hybrid Structure. ACS Nano, 2014, 8, 2584-2589.	14.6	49
7	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. Nature Photonics, 2013, 7, 752-758.	31.4	641
8	Cylindrical Rotating Triboelectric Nanogenerator. ACS Nano, 2013, 7, 6361-6366.	14.6	249
9	Temperature Dependence of the Piezotronic Effect in ZnO Nanowires. Nano Letters, 2013, 13, 5026-5032.	9.1	76
10	Wavelength Tunable CdSe Nanowire Lasers Based on the Absorption-Emission-Absorption Process. Advanced Materials, 2013, 25, 833-837.	21.0	109
11	Theoretical study of contact-mode triboelectric nanogenerators as an effective power source. Energy and Environmental Science, 2013, 6, 3576.	30.8	1,380
12	Piezo-phototronic Effect Enhanced Visible/UV Photodetector of a Carbon-Fiber/ZnO-CdS Double-Shell Microwire. ACS Nano, 2013, 7, 4537-4544.	14.6	197
13	In Situ Quantitative Study of Nanoscale Triboelectrification and Patterning. Nano Letters, 2013, 13, 2771-2776.	9.1	210
14	Linear-Grating Triboelectric Generator Based on Sliding Electrification. Nano Letters, 2013, 13, 2282-2289.	9.1	442
15	Largely Enhanced Efficiency in ZnO Nanowire/p-Polymer Hybridized Inorganic/Organic Ultraviolet Light-Emitting Diode by Piezo-Phototronic Effect. Nano Letters, 2013, 13, 607-613.	9.1	209
16	Theory of Sliding-Mode Triboelectric Nanogenerators. Advanced Materials, 2013, 25, 6184-6193.	21.0	581
17	A Single-Electrode Based Triboelectric Nanogenerator as Self-Powered Tracking System. Advanced Materials, 2013, 25, 6594-6601.	21.0	299
18	Hybrid cells for simultaneously harvesting multi-type energies for self-powered micro/nanosystems. Nano Energy, 2012, 1, 259-272.	16.0	97

#	ARTICLE	IF	CITATIONS
19	Piezoelectric Effect at Nanoscale. , 2012, , 2085-2099.		2
20	BaTiO ₃ Nanotubes-Based Flexible and Transparent Nanogenerators. Journal of Physical Chemistry Letters, 2012, 3, 3599-3604.	4.6	323
21	Flexible Nanocomposite Generator Made of BaTiO ₃ Nanoparticles and Graphitic Carbons. Advanced Materials, 2012, 24, 2999-3004.	21.0	601
22	Enhanced Cu ₂ S/CdS Coaxial Nanowire Solar Cells by Piezo-Phototronic Effect. Nano Letters, 2012, 12, 3302-3307.	9.1	174
23	Self-Powered Ultrasensitive Nanowire Photodetector Driven by a Hybridized Microbial Fuel Cell. Angewandte Chemie - International Edition, 2012, 51, 6443-6446.	13.8	47
24	Nanowire Piezo-Phototronic Photodetector: Theory and Experimental Design. Advanced Materials, 2012, 24, 1410-1417.	21.0	125
25	Fundamental Theory of Piezotronics. Advanced Materials, 2011, 23, 3004-3013.	21.0	459
26	Piezo-phototronic effect and its applications in flexible optoelectronic and energy technologies. , 2011, , .		2
27	Ordered Nanowire Array Blue/Near-UV Light Emitting Diodes. Advanced Materials, 2010, 22, 4749-4753.	21.0	206
28	Piezoelectric BaTiO ₃ Thin Film Nanogenerator on Plastic Substrates. Nano Letters, 2010, 10, 4939-4943.	9.1	711
29	Hybrid Nanogenerator for Concurrently Harvesting Biomechanical and Biochemical Energy. ACS Nano, 2010, 4, 3647-3652.	14.6	383
30	Reversible luminescence switching of NaYF ₄ :Yb,Er nanoparticles with controlled assembly of gold nanoparticles. Chemical Communications, 2009, , 2547.	4.1	63
31	Crumpling under an Ambient Pressure. Physical Review Letters, 2008, 101, 125504.	7.8	27