Xiaoyi Li

List of Publications by Year in descending order

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		172386	434063
31	2,803	29	31
papers	citations	h-index	g-index

31	31	31	3716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy Conversion Analysis of Multilayered Triboelectric Nanogenerators for Synergistic Rain and Solar Energy Harvesting. Advanced Materials, 2022, 34, e2202238.	11.1	63
2	Solarâ€Driven Interfacial Evaporation and Selfâ€Powered Water Wave Detection Based on an Allâ€Cellulose Monolithic Design. Advanced Functional Materials, 2021, 31, 2008681.	7.8	150
3	Recent Progress in Self-Powered Sensors Based on Triboelectric Nanogenerators. Sensors, 2021, 21, 7129.	2.1	33
4	Influence of Structured Water Layers on Protein Adsorption Process: A Case Study of Cytochrome c and Carbon Nanotube Interactions and Its Implications. Journal of Physical Chemistry B, 2020, 124, 684-694.	1.2	12
5	Design of self-righting steam generators for solar-driven interfacial evaporation and self-powered water wave detection. Journal of Materials Chemistry A, 2020, 8, 24664-24674.	5.2	36
6	A universal method for quantitative analysis of triboelectric nanogenerators. Journal of Materials Chemistry A, 2019, 7, 19485-19494.	5.2	44
7	On the Maximal Output Energy Density of Nanogenerators. ACS Nano, 2019, 13, 13257-13263.	7.3	43
8	Self-powered electrowetting optical switch driven by a triboelectric nanogenerator for wireless sensing. Nano Energy, 2019, 66, 104140.	8.2	32
9	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. Nano Energy, 2019, 58, 633-640.	8.2	120
10	Direct lift-off and the piezo-phototronic study of InGaN/GaN heterostructure membrane. Nano Energy, 2019, 59, 545-552.	8.2	33
11	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	7.3	82
12	On the force and energy conversion in triboelectric nanogenerators. Nano Energy, 2019, 59, 154-161.	8.2	61
13	Standardization of triboelectric nanogenerators: Progress and perspectives. Nano Energy, 2019, 56, 40-55.	8.2	53
14	A Highly Stretchable Transparent Selfâ€Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. Advanced Materials, 2018, 30, e1706738.	11.1	315
15	Networks of High Performance Triboelectric Nanogenerators Based on Liquidâ€“Solid Interface Contact Electrification for Harvesting Lowâ€Frequency Blue Energy. Advanced Energy Materials, 2018, 8, 1800705.	10.2	182
16	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. ACS Nano, 2018, 12, 11899-11906.	7.3	51
17	Full Dynamicâ€Range Pressure Sensor Matrix Based on Optical and Electrical Dualâ€Mode Sensing. Advanced Materials, 2017, 29, 1605817.	11.1	176
18	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. APL Materials, 2017, 5, .	2.2	53

#	Article	IF	Citations
19	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. Advanced Materials, 2017, 29, 1701253.	11.1	59
20	Flexible Light Emission Diode Arrays Made of Transferred Si Microwires-ZnO Nanofilm with Piezo-Phototronic Effect Enhanced Lighting. ACS Nano, 2017, 11, 3883-3889.	7.3	53
21	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. Nano Energy, 2017, 34, 578-585.	8.2	128
22	Tuning Light Emission of a Pressure-Sensitive Silicon/ZnO Nanowires Heterostructure Matrix through Piezo-phototronic Effects. ACS Nano, 2016, 10, 6074-6079.	7.3	75
23	Enhancing Light Emission of ZnOâ€Nanofilm/Siâ€Micropillar Heterostructure Arrays by Piezoâ€Phototronic Effect. Advanced Materials, 2015, 27, 4447-4453.	11.1	81
24	Amphiphilic drugs as surfactants to fabricate excipient-free stable nanodispersions of hydrophobic drugs for cancer chemotherapy. Journal of Controlled Release, 2015, 220, 175-179.	4.8	73
25	A self-powered system based on triboelectric nanogenerators and supercapacitors for metal corrosion prevention. Journal of Materials Chemistry A, 2015, 3, 22663-22668.	5.2	70
26	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. Advanced Functional Materials, 2014, 24, 6691-6699.	7.8	104
27	A Three Dimensional Multiâ€Layered Sliding Triboelectric Nanogenerator. Advanced Energy Materials, 2014, 4, 1301592.	10.2	106
28	Triboelectric Nanogenerators as a Selfâ€Powered Motion Tracking System. Advanced Functional Materials, 2014, 24, 5059-5066.	7.8	83
29	Flexible quantum dot-sensitized solar cells employing CoS nanorod arrays/graphite paper as effective counter electrodes. Journal of Materials Chemistry A, 2014, 2, 13661.	5.2	80
30	Separation of Hydrogen and Nitrogen Gases with Porous Graphene Membrane. Journal of Physical Chemistry C, 2011, 115, 23261-23266.	1.5	335
31	Synthesis, spectral and thermal properties of some transition metal(II) complexes with a novel ligand derived from thiobarbituric acid. Journal of Thermal Analysis and Calorimetry, 2009, 98, 387-394.	2.0	17