

Lei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,511
citations

159525

30
h-index

289141

40
g-index

40
all docs

40
docs citations

40
times ranked

3801
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermal activated and differential self-calibrated flexible epidermal biomicrofluidic device for wearable accurate blood glucose monitoring. <i>Science Advances</i> , 2021, 7, .	4.7	91
2	Woven Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting and as Self-Powered Gait-Recognizing Socks. <i>Energies</i> , 2020, 13, 4119.	1.6	10
3	Synthesis of Size-Controllable NiCo ₂ S ₄ Hollow Nanospheres Toward Enhanced Electrochemical Performance. <i>Energy and Environmental Materials</i> , 2020, 3, 421-428.	7.3	23
4	Step emulsification in microfluidic droplet generation: mechanisms and structures. <i>Chemical Communications</i> , 2020, 56, 9056-9066.	2.2	35
5	Cellulose II Aerogel-Based Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2020, 30, 2001763.	7.8	123
6	Non-contact and liquid-liquid interfacing triboelectric nanogenerator for self-powered water/liquid level sensing. <i>Nano Energy</i> , 2020, 72, 104703.	8.2	59
7	Hierarchically structured PVDF/ZnO core-shell nanofibers for self-powered physiological monitoring electronics. <i>Nano Energy</i> , 2020, 72, 104706.	8.2	207
8	Alternating Current Photovoltaic Effect. <i>Advanced Materials</i> , 2020, 32, e1907249.	11.1	54
9	Signal Output of Triboelectric Nanogenerator at Oil-Water-Solid Multiphase Interfaces and its Application for Dual-Signal Chemical Sensing. <i>Advanced Materials</i> , 2019, 31, e1902793.	11.1	120
10	Self-doubled-rectification of triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 66, 104165.	8.2	50
11	Nanogenerator as new energy technology for self-powered intelligent transportation system. <i>Nano Energy</i> , 2019, 66, 104086.	8.2	130
12	A Hybridized Triboelectric-Electromagnetic Water Wave Energy Harvester Based on a Magnetic Sphere. <i>ACS Nano</i> , 2019, 13, 2349-2356.	7.3	92
13	Dynamic Photomask-Assisted Direct Ink Writing Multimaterial for Multilevel Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2019, 29, 1903568.	7.8	65
14	Energy Harvesting-Storage Bracelet Incorporating Electrochemical Microsupercapacitors Self-Charged from a Single Hand Gesture. <i>Advanced Energy Materials</i> , 2019, 9, 1900152.	10.2	47
15	High-performance optical projection controllable ZnO nanorod arrays for microweighing sensors. <i>Nanoscale</i> , 2018, 10, 4727-4734.	2.8	4
16	Fully Rollable Lead-Free Poly(vinylidene fluoride)-Niobate-Based Nanogenerator with Ultra-Flexible Nano-Network Electrodes. <i>ACS Nano</i> , 2018, 12, 4803-4811.	7.3	106
17	Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. <i>ACS Nano</i> , 2018, 12, 5726-5733.	7.3	109
18	Highly Robust, Transparent, and Breathable Epidermal Electrode. <i>ACS Nano</i> , 2018, 12, 9326-9332.	7.3	153

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19	Pressure-crystallized piezopolymer/ionomer/graphene quantum dot composites: A novel poling-free dynamic hybrid electret with enhanced energy harvesting properties. <i>Composites Science and Technology</i> , 2018, 164, 282-289.	3.8	23
20	Self-powered wireless smart sensor based on maglev porous nanogenerator for train monitoring system. <i>Nano Energy</i> , 2017, 38, 185-192.	8.2	152
21	Filling the holes in piezopolymers with a solid electrolyte: a new paradigm of poling-free dynamic electrets for energy harvesting. <i>Journal of Materials Chemistry A</i> , 2017, 5, 189-200.	5.2	34
22	Mass Production and Pore Size Control of Holey Carbon Microcages. <i>Angewandte Chemie</i> , 2017, 129, 13978-13982.	1.6	8
23	Mass Production and Pore Size Control of Holey Carbon Microcages. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13790-13794.	7.2	39
24	Self-Powered Acceleration Sensor Based on Liquid Metal Triboelectric Nanogenerator for Vibration Monitoring. <i>ACS Nano</i> , 2017, 11, 7440-7446.	7.3	293
25	Stretchable Porous Carbon Nanotube/Elastomer Hybrid Nanocomposite for Harvesting Mechanical Energy. <i>Advanced Materials</i> , 2017, 29, 1603115.	11.1	172
26	A facile in-situ growth of large area flexible In_2MoO_3 microsheets aligned arrays for temperature sensor. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2965-2968.	2.8	3
27	Lawn Structured Triboelectric Nanogenerators for Scavenging Sweeping Wind Energy on Rooftops. <i>Advanced Materials</i> , 2016, 28, 1650-1656.	11.1	334
28	Controllable synthesis of self-assembly Co_3O_4 nanoflake microspheres for electrochemical performance. <i>Nanotechnology</i> , 2016, 27, 355603.	1.3	23
29	Rotating-Disk-Based Hybridized Electromagnetic/Triboelectric Nanogenerator for Sustainably Powering Wireless Traffic Volume Sensors. <i>ACS Nano</i> , 2016, 10, 6241-6247.	7.3	277
30	Composition controlled nickel cobalt sulfide core-shell structures as high capacity and good rate-capability electrodes for hybrid supercapacitors. <i>RSC Advances</i> , 2016, 6, 50209-50216.	1.7	32
31	Flexible supercapacitors with high areal capacitance based on hierarchical carbon tubular nanostructures. <i>Journal of Power Sources</i> , 2016, 331, 332-339.	4.0	63
32	Self-Powered Safety Helmet Based on Hybridized Nanogenerator for Emergency. <i>ACS Nano</i> , 2016, 10, 7874-7881.	7.3	179
33	Self-powered graphene quantum dot/poly(vinylidene fluoride) composites with remarkably enhanced mechanical-to-electrical conversion. <i>RSC Advances</i> , 2016, 6, 67400-67408.	1.7	31
34	Self-assembly gridding In_2MoO_3 nanobelts for highly toxic H_2S gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 350-357.	4.0	68
35	One-step synthesis of hierarchically porous carbons for high-performance electric double layer supercapacitors. <i>Journal of Power Sources</i> , 2016, 315, 120-126.	4.0	118
36	A miniaturized wireless accelerometer with micromachined piezoelectric sensing element. <i>Sensors and Actuators A: Physical</i> , 2016, 241, 113-119.	2.0	43

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37	Theoretical spectra identification and fluorescent properties of reddish orange Sm-doped BaTiO ₃ phosphors. <i>Journal of Alloys and Compounds</i> , 2015, 643, 247-252.	2.8	19
38	Multifunctional triboelectric nanogenerator based on porous micro-nickel foam to harvest mechanical energy. <i>Nano Energy</i> , 2015, 16, 516-523.	8.2	96
39	A high-performance white-light-emitting-diodes based on nano-single crystal divanadates quantum dots. <i>Scientific Reports</i> , 2015, 5, 10460.	1.6	18
40	High-Performance Simultaneous Two-Photon Absorption Upconverted Stimulated Single-Component Sr ₂ V ₂ O ₇ Phosphor for White LEDs. <i>Journal of Electronic Materials</i> , 2015, 44, 3465-3470.	1.0	8