

Ziyin Lin

List of Publications by Year in descending order

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78
papers

9,223
citations

66343

42
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133252

59
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78
all docs

78
docs citations

78
times ranked

13937
citing authors

#	ARTICLE	IF	CITATIONS
1	Holey nickel nanotube reticular network scaffold for high-performance flexible rechargeable Zn/MnO ₂ batteries. <i>Chemical Engineering Journal</i> , 2019, 370, 330-336.	12.7	56
2	High performance, environmentally benign and integratable Zn/MnO ₂ microbatteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3933-3940.	10.3	53
3	Hierarchical ferric-cobalt-nickel ternary oxide nanowire arrays supported on graphene fibers as high-performance electrodes for flexible asymmetric supercapacitors. <i>Nano Research</i> , 2018, 11, 1775-1786.	10.4	55
4	Self-Patterning of Silica/Epoxy Nanocomposite Underfill by Tailored Hydrophilic-Superhydrophobic Surfaces for 3D Integrated Circuit (IC) Stacking. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8437-8442.	8.0	13
5	A reduced graphene oxide/mixed-valence manganese oxide composite electrode for tailorable and surface mountable supercapacitors with high capacitance and super-long life. <i>Energy and Environmental Science</i> , 2017, 10, 941-949.	30.8	253
6	An all-solid-state, lightweight, and flexible asymmetric supercapacitor based on cabbage-like ZnCo ₂ O ₄ and porous VN nanowires electrode materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6928-6936.	10.3	81
7	An Ultralong, Highly Oriented Nickel Nanowire Array Electrode Scaffold for High-Performance Compressible Pseudocapacitors. <i>Advanced Materials</i> , 2016, 28, 4105-4110.	21.0	171
8	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. <i>Nano Energy</i> , 2016, 26, 276-285.	16.0	135
9	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. <i>Nano Energy</i> , 2016, 30, 900-908.	16.0	188
10	Molecular Level Study of Graphene Networks Functionalized with Phenylenediamine Monomers for Supercapacitor Electrodes. <i>Chemistry of Materials</i> , 2016, 28, 9110-9121.	6.7	98
11	Molecular engineering of aromatic amine spacers for high-performance graphene-based supercapacitors. <i>Nano Energy</i> , 2016, 21, 276-294.	16.0	61
12	Vapor-Phase Polymerized Poly(3,4-Ethylenedioxythiophene) on a Nickel Nanowire Array Film: Aqueous Symmetrical Pseudocapacitors with Superior Performance. <i>PLoS ONE</i> , 2016, 11, e0166529.	2.5	14
13	Alternating current line-filter based on electrochemical capacitor utilizing template-patterned graphene. <i>Scientific Reports</i> , 2015, 5, 10983.	3.3	53
14	Conformal Pad-Printing Electrically Conductive Composites onto Thermoplastic Hemispheres: Toward Sustainable Fabrication of 3-Cents Volumetric Electrically Small Antennas. <i>PLoS ONE</i> , 2015, 10, e0136939.	2.5	12
15	Double-Sided Transferred Carbon Nanotube Arrays for Improved Thermal Interface Materials. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2015, 137, .	1.8	10
16	Controlled preparation of CuO and Cu nanoparticles attached on carbon nanotubes for glucose sensing. <i>Materials Technology</i> , 2015, 30, A186-A191.	3.0	2
17	Water-dispersible graphene/polyaniline composites for flexible micro-supercapacitors with high energy densities. <i>Nano Energy</i> , 2015, 16, 470-478.	16.0	151
18	Smart Skins: Could they be the ultimate sensing tool? Today's industry and personal medical care both strongly demand accurate, reliable, robust, low-cost. <i>IEEE Nanotechnology Magazine</i> , 2015, 9, 4-10.	1.3	1

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19	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. ACS Nano, 2015, 9, 5636-5645.	14.6	127
20	Electrospray-deposition of graphene electrodes: a simple technique to build high-performance supercapacitors. Nanoscale, 2015, 7, 9133-9139.	5.6	54
21	Capacitance enhancement by electrochemically active benzene derivatives for graphene-based supercapacitors. RSC Advances, 2015, 5, 84113-84118.	3.6	8
22	Flexible copper wires through galvanic replacement of zinc paste: a highly cost-effective technology for wiring flexible printed circuits. Journal of Materials Chemistry C, 2015, 3, 8329-8335.	5.5	18
23	Triethanolamine functionalized graphene-based composites for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21789-21796.	10.3	112
24	3D porous graphene with ultrahigh surface area for microscale capacitive deionization. Nano Energy, 2015, 11, 711-718.	16.0	161
25	Capacitive deionization of water coolant using hybrid carbon electrodes for high power electronic applications. , 2014, , .		0
26	Flexible micro-supercapacitor based on in-situ assembled graphene on metal template at room temperature. Nano Energy, 2014, 10, 222-228.	16.0	111
27	Self-patterning, pre-applied underfilling technology for stack-die packaging. , 2014, , .		1
28	Carbon nanotubes inhibit the free-radical cross-linking of siloxane polymers. Journal of Applied Polymer Science, 2014, 131, .	2.6	3
29	Solid-state flexible polyaniline/silver cellulose nanofibrils aerogel supercapacitors. Journal of Power Sources, 2014, 246, 283-289.	7.8	119
30	Exfoliated hexagonal boron nitride-based polymer nanocomposite with enhanced thermal conductivity for electronic encapsulation. Composites Science and Technology, 2014, 90, 123-128.	7.8	258
31	Effects of Mn ²⁺ on the electrical resistance of electrolessly plated Ni-P thin-film and its application as embedded resistor. Journal of Materials Science: Materials in Electronics, 2014, 25, 1341-1347.	2.2	2
32	Hierarchical robust textured structures for large scale self-cleaning black silicon solar cells. Nano Energy, 2014, 3, 127-133.	16.0	71
33	Low-Cost High-Performance Solid-State Asymmetric Supercapacitors Based on MnO ₂ Nanowires and Fe ₂ O ₃ Nanotubes. Nano Letters, 2014, 14, 731-736.	9.1	1,035
34	Future paper based printed circuit boards for green electronics: fabrication and life cycle assessment. Energy and Environmental Science, 2014, 7, 3674-3682.	30.8	136
35	Worm-like amorphous MnO ₂ nanowires grown on textiles for high-performance flexible supercapacitors. Journal of Materials Chemistry A, 2014, 2, 595-599.	10.3	120
36	High Refractive Index and Transparent Nanocomposites as Encapsulant for High Brightness LED Packaging. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 1125-1130.	2.5	17

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37	Ultra-high refractive index LED encapsulant. , 2014, , .		5
38	Scalable fabrication of MnO ₂ nanostructure deposited on free-standing Ni nanocone arrays for ultrathin, flexible, high-performance micro-supercapacitor. Energy and Environmental Science, 2014, 7, 2652-2659.	30.8	247
39	Enhanced-performance wireless conformal "smart skins" utilizing inkjet-printed carbon-nanostructures. , 2014, , .		1
40	A hybrid energy cell for self-powered water splitting. Energy and Environmental Science, 2013, 6, 2429.	30.8	162
41	Magnetic Alignment of Hexagonal Boron Nitride Platelets in Polymer Matrix: Toward High Performance Anisotropic Polymer Composites for Electronic Encapsulation. ACS Applied Materials & Interfaces, 2013, 5, 7633-7640.	8.0	394
42	Superhydrophobic Nanocomposite Coating for Reliability Improvement of Microelectronics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1079-1083.	2.5	9
43	Low-cost micrometer-scale silicon vias (SVs) fabrication by metal-assisted chemical etching (MaCE) and carbon nanotubes (CNTs) filling. , 2013, , .		7
44	Simple preparation of nanoporous few-layer nitrogen-doped graphene for use as an efficient electrocatalyst for oxygen reduction and oxygen evolution reactions. Carbon, 2013, 53, 130-136.	10.3	331
45	Robust vertically aligned carbon nanotube“carbon fiber paper hybrid as versatile electrodes for supercapacitors and capacitive deionization. Carbon, 2013, 63, 547-553.	10.3	35
46	Hydrogenated ZnO Core“Shell Nanocables for Flexible Supercapacitors and Self-Powered Systems. ACS Nano, 2013, 7, 2617-2626.	14.6	781
47	3D Nitrogen-doped graphene prepared by pyrolysis of graphene oxide with polypyrrole for electrocatalysis of oxygen reduction reaction. Nano Energy, 2013, 2, 241-248.	16.0	367
48	Solid-state, flexible, high strength paper-based supercapacitors. Journal of Materials Chemistry A, 2013, 1, 5835.	10.3	71
49	High refractive index and transparency nanocomposites as encapsulant for high brightness LED packaging. , 2013, , .		3
50	Silicon-Based Hybrid Energy Cell for Self-Powered Electrodegradation and Personal Electronics. ACS Nano, 2013, 7, 2808-2813.	14.6	125
51	Preparation of Water-Based Carbon Nanotube Inks and Application in the Inkjet Printing of Carbon Nanotube Gas Sensors. Journal of Electronic Packaging, Transactions of the ASME, 2013, 135, .	1.8	20
52	Inkjet Printing of Radio Frequency Electronics: Design Methodologies and Application of Novel Nanotechnologies. Journal of Electronic Packaging, Transactions of the ASME, 2013, 135, .	1.8	6
53	Novel surface modification of nanosilica for low stress underfill. , 2013, , .		4
54	Enhanced thermal transport of hexagonal boron nitride filled polymer composite by magnetic field-assisted alignment. , 2013, , .		8

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55	Polyhedral oligomeric silsesquioxanes (POSS)-filled underfill with excellent high temperature performance. , 2012, , .		4
56	Robust, novel, and low cost superhydrophobic nanocomposites coating for reliability improvement of microelectronics. , 2012, , .		1
57	ZnO quantum dots-filled encapsulant for LED packaging. , 2012, , .		7
58	A novel graphene-based inkjet-printed WISP-enabled wireless gas sensor. , 2012, , .		12
59	Reversible Superhydrophobicâ€“Superhydrophilic Transition of ZnO Nanorod/Epoxy Composite Films. ACS Applied Materials & Interfaces, 2012, 4, 3959-3964.	8.0	108
60	A combined etching process toward robust superhydrophobic SiC surfaces. Nanotechnology, 2012, 23, 255703.	2.6	28
61	Single/few-layer boron nitride-based nanocomposites for high thermal conductivity underfills. , 2012, , .		7
62	Inkjet-printed graphene-based wireless gas sensor modules. , 2012, , .		33
63	Graphene enhanced wireless sensors. , 2012, , .		7
64	Facile preparation of nitrogen-doped graphene as a metal-free catalyst for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2012, 14, 3381.	2.8	261
65	Large-scale production of two-dimensional nanosheets. Journal of Materials Chemistry, 2012, 22, 13494.	6.7	351
66	Facile Synthesis of Nitrogenâ€“Doped Graphene via Pyrolysis of Graphene Oxide and Urea, and its Electrocatalytic Activity toward the Oxygenâ€“Reduction Reaction. Advanced Energy Materials, 2012, 2, 884-888.	19.5	840
67	Hybridizing ZnO Nanowires with Micropyramid Silicon Wafers as Superhydrophobic Highâ€“Efficiency Solar Cells. Advanced Energy Materials, 2012, 2, 47-51.	19.5	89
68	Novel ZnO nanowires/silicon hierarchical structures for superhydrophobic, low reflection, and high efficiency solar cells. , 2011, , .		3
69	Novel preparation of functionalized graphene oxide for large scale, low cost, and self-cleaning coatings of electronic devices. , 2011, , .		7
70	Superior Capacitance of Functionalized Graphene. Journal of Physical Chemistry C, 2011, 115, 7120-7125.	3.1	307
71	Controlled Growth of Multilayer, Few-Layer, and Single-Layer Graphene on Metal Substrates. Journal of Physical Chemistry C, 2011, 115, 5232-5238.	3.1	119
72	Nanocomposite for low stress underfill. , 2011, , .		2

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73	Surface engineering of graphene for high performance supercapacitors. , 2011, , .		0
74	Ionic-Liquid-Assisted Preparation of Carbon Nanotube-Supported Uniform Noble Metal Nanoparticles and Their Enhanced Catalytic Performance. Advanced Functional Materials, 2010, 20, 3747-3752.	14.9	90
75	Solvent-Assisted Thermal Reduction of Graphite Oxide. Journal of Physical Chemistry C, 2010, 114, 14819-14825.	3.1	264
76	Ultrafast, dry microwave synthesis of graphene sheets. Journal of Materials Chemistry, 2010, 20, 4781.	6.7	128
77	Facile Fabrication of Superhydrophobic Octadecylamine-Functionalized Graphite Oxide Film. Langmuir, 2010, 26, 16110-16114.	3.5	180
78	Rational preparation of faceted platinum nanocrystals supported on carbon nanotubes with remarkably enhanced catalytic performance. Chemical Communications, 2009, , 7167.	4.1	39