

# Limin Zhou

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79 papers	3,324 citations	30 h-index	56 g-index
84 ext. papers	3,852 ext. citations	9.6 avg, IF	5.44 L-index

#	Paper	IF	Citations
79	Insights into self-induced electrochemical activation of carbon cathode. <i>Carbon</i> , <b>2022</b> , 188, 177-186	10.4	0
78	Structural composite energy storage devices A review. <i>Materials Today Energy</i> , <b>2022</b> , 24, 100924	7	5
77	Phase-microstructure-mechanical properties relationship of carbon fiber reinforced ionic liquid epoxy composites. <i>Composites Science and Technology</i> , <b>2021</b> , 207, 108711	8.6	3
76	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of CoO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28171-28180	9.5	7
75	Advanced in-situ characterizations of nanocomposite electrodes for sodium-ion batteries A short review. <i>Composites Communications</i> , <b>2021</b> , 25, 100635	6.7	7
74	Experimental and numerical simulation of lightning damage development on composites with/without a carbon-based protection layer. <i>Composite Structures</i> , <b>2021</b> , 260, 113452	5.3	3
73	Composite structural batteries with Co3O4/CNT modified carbon fibers as anode: Computational insights on the interfacial behavior. <i>Composites Science and Technology</i> , <b>2021</b> , 201, 108495	8.6	6
72	Ultrahigh capacity and cyclability of dual-phase TiO2 nanowires with low working potential at room and subzero temperatures. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9256-9265	13	6
71	A sustainable LiFePO4/graphite hybrid cathode capable of stepwise cation and anion storage. <i>Electrochimica Acta</i> , <b>2021</b> , 391, 138936	6.7	0
70	Interfacial kinetics induced phase separation enhancing low-temperature performance of lithium-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 75, 104977	17.1	9
69	Integrating hierarchical porous nanosheets in the design of carbon cloth-based sandwiched sulfur cathodes to achieve high areal capacity in lithium sulfur batteries. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3293-3299	5.8	3
68	Facile synthesis of substrate supported ultrathin two-dimensional cobalt-based metal organic frameworks nanoflakes. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2020</b> , 134, 105910	8.4	7
67	Electrical conductivity and mechanical property improvement by low-temperature carbon nanotube growth on carbon fiber fabric with nanofiller incorporation. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107581	10	31
66	In situ assembly of MnO2 nanosheets on sulfur-embedded multichannel carbon nanofiber composites as cathodes for lithium-sulfur batteries. <i>Science China Materials</i> , <b>2020</b> , 63, 728-738	7.1	24
65	Real-time and direct observation of lithiation of ultra-small tin oxide nanoparticles. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227416	8.9	3
64	Temperature-induced microstructure optimization of Co3O4 for the achievement of a high-areal-capacity carbon cloth-based lithium ion battery anode. <i>Composites Communications</i> , <b>2020</b> , 22, 100446	6.7	13
63	Manufacture and mechanical properties of sandwich structure-battery composites. <i>Journal of Polymer Engineering</i> , <b>2019</b> , 39, 838-843	1.4	4

62	Two-dimensional porous silicon nanosheets as anode materials for high performance lithium-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 10984-10991	7.7	32
61	Valence Engineering via Selective Atomic Substitution on Tetrahedral Sites in Spinel Oxide for Highly Enhanced Oxygen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8136-8145	16.4	120
60	Thermally etched porous carbon cloth catalyzed by metal organic frameworks as sulfur hosts for lithium-sulfur batteries. <i>Carbon</i> , <b>2019</b> , 150, 76-84	10.4	37
59	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO <sub>2</sub> nanowires. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19297-19304	13	11
58	A novel calendula-like MnNb <sub>2</sub> O <sub>6</sub> anchored on graphene sheet as high-performance intercalation pseudocapacitive anode for lithium-ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2855-2863	13	21
57	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. <i>Nature Communications</i> , <b>2019</b> , 10, 725	17.4	156
56	Freestanding 3D Polypyrrole@reduced graphene oxide hydrogels as binder-free electrode materials for flexible asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 536, 291-299	9.3	25
55	Investigation of mechanical performances of composite bolted joints with local reinforcements. <i>Science and Engineering of Composite Materials</i> , <b>2018</b> , 25, 75-83	1.5	3
54	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , <b>2018</b> , 9, 4164	17.4	210
53	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602078	21.8	69
52	Design of Hierarchical Ni <sub>2</sub> Co@Ni <sub>2</sub> Co Layered Double Hydroxide Core/Shell Structured Nanotube Array for High-Performance Flexible All-Solid-State Battery-Type Supercapacitors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605307	15.6	230
51	From biomass with irregular structures to 1D carbon nanobelts: a stripping and cutting strategy to fabricate high performance supercapacitor materials. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14551-14561	13	81
50	Applications of a nanocomposite-inspired in-situ broadband ultrasonic sensor to acousto-ultrasonics-based passive and active structural health monitoring. <i>Ultrasonics</i> , <b>2017</b> , 78, 166-174	3.5	16
49	Effects of Nano-Aluminum Nitride on the Performance of an Ultrahigh-Temperature Inorganic Phosphate Adhesive Cured at Room Temperature. <i>Materials</i> , <b>2017</b> , 10,	3.5	12
48	Photocatalytic reduction of CO <sub>2</sub> with H <sub>2</sub> O to CH <sub>4</sub> over ultrathin SnNb <sub>2</sub> O <sub>6</sub> 2D nanosheets under visible light irradiation. <i>Green Chemistry</i> , <b>2016</b> , 18, 1355-1363	10	107
47	Effects of micropore structure on hydration degree and mechanical properties of concrete in later curing age. <i>European Journal of Environmental and Civil Engineering</i> , <b>2016</b> , 20, 544-559	1.5	4
46	Mechanics-based optimization of yolk-shell carbon-coated silicon nanoparticle as electrode materials for high-capacity lithium ion battery. <i>Composites Communications</i> , <b>2016</b> , 1, 1-5	6.7	16
45	Ni@NiO core/shell dendrites for ultra-long cycle life electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15049-15056	13	27

44	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 16063-16066	3.6	12
43	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 15831-15836	3.6	12
42	Flexible fiber hybrid supercapacitor with NiCo <sub>2</sub> O <sub>4</sub> nanograss@carbon fiber and bio-waste derived high surface area porous carbon. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 411-419	6.7	91
41	Inserting Sn Nanoparticles into the Pores of TiO <sub>2</sub> Nanofibers by Lithiation. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 376-383	15.6	44
40	Investigation on a novel bolted joint scheme for foam inserted top-hat stiffened composite plates. <i>Materials and Design</i> , <b>2016</b> , 93, 448-457	8.1	4
39	Carbon coating may expedite the fracture of carbon-coated silicon core-shell nanoparticles during lithiation. <i>Nanoscale</i> , <b>2016</b> , 8, 5254-9	7.7	36
38	Suppressing the Coffee-Ring Effect in Semitransparent MnO <sub>2</sub> Film for a High-Performance Solar-Powered Energy Storage Window. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9088-96	9.5	25
37	Constructing a MoS <sub>2</sub> QDs/CdS Core/Shell Flowerlike Nanosphere Hierarchical Heterostructure for the Enhanced Stability and Photocatalytic Activity. <i>Molecules</i> , <b>2016</b> , 21,	4.8	24
36	Stable freestanding Li-ion battery cathodes by in situ conformal coating of conducting polypyrrole on NiS-carbon nanofiber films. <i>Journal of Power Sources</i> , <b>2016</b> , 331, 360-365	8.9	35
35	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO <sub>2</sub> /Au/MnO <sub>2</sub> nanospire arrays. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10199-10204	13	47
34	Improved performance of asymmetric fiber-based micro-supercapacitors using carbon nanoparticles for flexible energy storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15633-15641	13	31
33	On the Adhesion performance of a single electrospun fiber. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 118, 51-56	2.6	9
32	A porous graphene/carbon nanowire hybrid with embedded SnO <sub>2</sub> nanocrystals for high performance lithium ion storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23844-23851	13	38
31	Organic-free Anatase TiO <sub>2</sub> Paste for Efficient Plastic Dye-Sensitized Solar Cells and Low Temperature Processed Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19431-8	9.5	32
30	Facile preparation of hierarchical TiO <sub>2</sub> nanowire/nanoparticle/nanotube architecture for highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20366-20374	13	23
29	Guided wave propagation in high-speed train axle and damage detection based on wave mode conversion. <i>Structural Control and Health Monitoring</i> , <b>2015</b> , 22, 1133-1147	4.5	19
28	Preparation, Mechanical and Thermal Properties of Poly(Butylene Terephthalate) and Its Nanocomposites Prepared from Cyclic Butylene Terephthalate. <i>Polymers and Polymer Composites</i> , <b>2015</b> , 23, 103-108	0.8	
27	Aperiodic TiO <sub>2</sub> nanotube photonic crystal: full-visible-spectrum solar light harvesting in photovoltaic devices. <i>Scientific Reports</i> , <b>2014</b> , 4, 6442	4.9	23

26	Exceptional electrochemical performance of porous TiO <sub>2</sub> /carbon nanofibers for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3875-3880	13	64
25	Core/shell TiO <sub>2</sub> /MnO <sub>2</sub> /MnO <sub>2</sub> heterostructure anodes for high-performance lithium-ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 39906	3.7	30
24	Layer-by-layer self-assembly of a sandwich-like graphene wrapped SnO <sub>x</sub> @graphene composite as an anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6292-6295	13	48
23	Hollow-tunneled graphitic carbon nanofibers through Ni-diffusion-induced graphitization as high-performance anode materials. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2689-2696	35.4	118
22	Silica-assistant synthesis of three-dimensional graphene architecture and its application as anode material for lithium ion batteries. <i>Nano Energy</i> , <b>2014</b> , 8, 62-70	17.1	50
21	High-performance low-voltage organic transistor memories with room-temperature solution-processed hybrid nanolayer dielectrics. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3291	7.1	27
20	Nanoscale analysis of tensile properties and fracture of nanoreinforced epoxy polymer using micromechanics. <i>Journal of Reinforced Plastics and Composites</i> , <b>2013</b> , 32, 1224-1233	2.9	9
19	Hollow carbon-nanotube/carbon-nanofiber hybrid anodes for Li-ion batteries. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16280-3	16.4	367
18	High Temperature Crystallization of Free-Standing Anatase TiO <sub>2</sub> Nanotube Membranes for High Efficiency Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5952-5960	15.6	60
17	Study on Tensile Properties of Nanoreinforced Epoxy Polymer: Macroscopic Experiments and Nanoscale FEM Simulation Prediction. <i>Advances in Materials Science and Engineering</i> , <b>2013</b> , 2013, 1-8	1.5	8
16	Hydrogenated TiO <sub>2</sub> Nanotube Arrays as High-Rate Anodes for Lithium-Ion Microbatteries. <i>ChemPlusChem</i> , <b>2012</b> , 77, 991-1000	2.8	130
15	Iron supported C@Fe <sub>3</sub> O <sub>4</sub> nanotube array: a new type of 3D anode with low-cost for high performance lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5560		70
14	Triple-coaxial electrospun amorphous carbon nanotubes with hollow graphitic carbon nanospheres for high-performance Li ion batteries. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7898	35.4	168
13	Design and coupling of multifunctional TiO <sub>2</sub> nanotube photonic crystal to nanocrystalline titania layer as semi-transparent photoanode for dye-sensitized solar cell. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9881	35.4	119
12	Compressive Property of Basalt Fiber in Composite with Nano-indentation. <i>Polymers and Polymer Composites</i> , <b>2011</b> , 19, 235-242	0.8	3
11	Enhanced Unipolar Fatigue Resistance in Ferroelectric Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> )BbTiO <sub>3</sub> Ceramics Prepared via Glycerol-Assisted Solid-State Reaction. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 488-495	3.8	3
10	Photovoltaic Devices: Direct and Seamless Coupling of TiO <sub>2</sub> Nanotube Photonic Crystal to Dye-Sensitized Solar Cell: A Single-Step Approach (Adv. Mater. 47/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 5623-5623	24	2
9	Pyrochlore-Free Pb(Ni <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> )BbTiO <sub>3</sub> Ceramics with Superior Piezoelectric Properties Synthesized Using an Optimized Polyethylene Glycol-Assisted Solid-State Reaction. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 2244-2251	3.8	5

8	Crossover from a nearly constant loss to a superlinear power-law behavior in Mn-doped Bi(Mg <sub>1/2</sub> Ti <sub>1/2</sub> )O <sub>3</sub> PbTiO <sub>3</sub> ferroelectrics. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 084112	2.5	28
7	Photoelectrochemical behavior of titania nanotube array grown on nanocrystalline titanium. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 2907-2915	4.3	43
6	A Polyethylene Glycol-Modified Solid-State Reaction Route to Synthesize Relaxor Ferroelectric Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> (PMNPT). <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1057-1064	3.8	13
5	Novel Solid-State Reaction Route to Synthesize Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> PbTiO <sub>3</sub> Ceramics with a Pure Perovskite Phase. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2718-2720	9.6	18
4	Enhancement of multiplexing capability of low-coherence interferometric fiber sensor array by use of a loop topology. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 1313-1319	4	8
3	Multiplexing of fiber-optic white light interferometric sensors using a ring resonator. <i>Journal of Lightwave Technology</i> , <b>2002</b> , 20, 1471-1477	4	3
2	Enhanced multiplexing capacity of low-coherence reflectometric sensors with a loop topology. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 1157-1159	2.2	11
1	Fiber optic differential interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2000</b> , 49, 779-782	5.2	3