Limin Zhou

List of Publications by Citations

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	Hollow carbon-nanotube/carbon-nanofiber hybrid anodes for Li-ion batteries. *Journal of the American Chemical Society*, **2013**, 135, 16280-3	16.4	367
78	Design of Hierarchical Ni?Co@Ni?Co Layered Double Hydroxide Core?Shell Structured Nanotube Array for High-Performance Flexible All-Solid-State Battery-Type Supercapacitors. *Advanced Functional Materials*, **2017**, 27, 1605307	15.6	230
77	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. *Nature Communications*, **2018**, 9, 4164	17.4	210
76	Triple-coaxial electrospun amorphous carbon nanotubes with hollow graphitic carbon nanospheres for high-performance Li ion batteries. *Energy and Environmental Science*, **2012**, 5, 7898	35.4	168
75	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. *Nature Communications*, **2019**, 10, 725	17.4	156
74	Hydrogenated TiO2 Nanotube Arrays as High-Rate Anodes for Lithium-Ion Microbatteries. *ChemPlusChem*, **2012**, 77, 991-1000	2.8	130
73	Valence Engineering via Selective Atomic Substitution on Tetrahedral Sites in Spinel Oxide for Highly Enhanced Oxygen Evolution Catalysis. *Journal of the American Chemical Society*, **2019**, 141, 8136-8145	16.4	120
72	Design and coupling of multifunctional TiO2 nanotube photonic crystal to nanocrystalline titania layer as semi-transparent photoanode for dye-sensitized solar cell. *Energy and Environmental Science*, **2012**, 5, 9881	35.4	119
71	Hollow-tunneled graphitic carbon nanofibers through Ni-diffusion-induced graphitization as high-performance anode materials. *Energy and Environmental Science*, **2014**, 7, 2689-2696	35.4	118
70	Photocatalytic reduction of CO2 with H2O to CH4 over ultrathin SnNb2O6 2D nanosheets under visible light irradiation. *Green Chemistry*, **2016**, 18, 1355-1363	10	107
69	Hollow Nanotubes of N-Doped Carbon on CoS. *Angewandte Chemie - International Edition*, **2016**, 55, 15831-15834	16.4	106
68	Flexible fiber hybrid supercapacitor with NiCo2O4 nanograss@carbon fiber and bio-waste derived high surface area porous carbon. *Electrochimica Acta*, **2016**, 211, 411-419	6.7	91
67	From biomass with irregular structures to 1D carbon nanobelts: a stripping and cutting strategy to fabricate high performance supercapacitor materials. *Journal of Materials Chemistry A*, **2017**, 5, 14551-14561	13	81
66	Iron supported C@Fe3O4 nanotube array: a new type of 3D anode with low-cost for high performance lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 5560		70
65	In Situ TEM Study of Volume Expansion in Porous Carbon Nanofiber/Sulfur Cathodes with Exceptional High-Rate Performance. *Advanced Energy Materials*, **2017**, 7, 1602078	21.8	69
64	Exceptional electrochemical performance of porous TiO2?carbon nanofibers for lithium ion battery anodes. *Journal of Materials Chemistry A*, **2014**, 2, 3875-3880	13	64
63	High Temperature Crystallization of Free-Standing Anatase TiO2 Nanotube Membranes for High Efficiency Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2013**, 23, 5952-5960	15.6	60

62	Silica-assistant synthesis of three-dimensional graphene architecture and its application as anode material for lithium ion batteries. *Nano Energy*, **2014**, 8, 62-70	17.1	50
61	Layer-by-layer self-assembly of a sandwich-like graphene wrapped SnOx@graphene composite as an anode material for lithium ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 6292-6295	13	48
60	Highly flexible and transferable supercapacitors with ordered three-dimensional MnO2/Au/MnO2 nanospike arrays. *Journal of Materials Chemistry A*, **2015**, 3, 10199-10204	13	47
59	Inserting Sn Nanoparticles into the Pores of TiO2 Nanofibers by Lithiation. *Advanced Functional Materials*, **2016**, 26, 376-383	15.6	44
58	Photoelectrochemical behavior of titania nanotube array grown on nanocrystalline titanium. *Journal of Materials Science*, **2009**, 44, 2907-2915	4.3	43
57	A porous graphene/carbon nanowire hybrid with embedded SnO2 nanocrystals for high performance lithium ion storage. *Journal of Materials Chemistry A*, **2015**, 3, 23844-23851	13	38
56	Thermally etched porous carbon cloth catalyzed by metal organic frameworks as sulfur hosts for lithium sulfur batteries. *Carbon*, **2019**, 150, 76-84	10.4	37
55	Carbon coating may expedite the fracture of carbon-coated silicon core-shell nanoparticles during lithiation. *Nanoscale*, **2016**, 8, 5254-9	7.7	36
54	Stable freestanding Li-ion battery cathodes by in situ conformal coating of conducting polypyrrole on NiS-carbon nanofiber films. *Journal of Power Sources*, **2016**, 331, 360-365	8.9	35
53	Two-dimensional porous silicon nanosheets as anode materials for high performance lithium-ion batteries. *Nanoscale*, **2019**, 11, 10984-10991	7.7	32
52	Organic-free Anatase TiO Paste for Efficient Plastic Dye-Sensitized Solar Cells and Low Temperature Processed Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 19431-8	9.5	32
51	Improved performance of asymmetric fiber-based micro-supercapacitors using carbon nanoparticles for flexible energy storage. *Journal of Materials Chemistry A*, **2015**, 3, 15633-15641	13	31
50	Electrical conductivity and mechanical property improvement by low-temperature carbon nanotube growth on carbon fiber fabric with nanofiller incorporation. *Composites Part B: Engineering*, **2020**, 182, 107581	10	31
49	Core/shell TiO2 MnO2/MnO2 heterostructure anodes for high-performance lithium-ion batteries. *RSC Advances*, **2014**, 4, 39906	3.7	30
48	Crossover from a nearly constant loss to a superlinear power-law behavior in Mn-doped Bi(Mg1/2Ti1/2)O3 PbTiO3 ferroelectrics. *Journal of Applied Physics*, **2010**, 107, 084112	2.5	28
47	Ni@NiO core/shell dendrites for ultra-long cycle life electrochemical energy storage. *Journal of Materials Chemistry A*, **2016**, 4, 15049-15056	13	27
46	High-performance low-voltage organic transistor memories with room-temperature solution-processed hybrid nanolayer dielectrics. *Journal of Materials Chemistry C*, **2013**, 1, 3291	7.1	27
45	Suppressing the Coffee-Ring Effect in Semitransparent MnO2 Film for a High-Performance Solar-Powered Energy Storage Window. *ACS Applied Materials & Interfaces*, **2016**, 8, 9088-96	9.5	25

44	Freestanding 3D Polypyrrole@reduced graphene oxide hydrogels as binder-free electrode materials for flexible asymmetric supercapacitors. *Journal of Colloid and Interface Science*, **2019**, 536, 291-299	9.3	25
43	In situ assembly of MnO2 nanosheets on sulfur-embedded multichannel carbon nanofiber composites as cathodes for lithium-sulfur batteries. *Science China Materials*, **2020**, 63, 728-738	7.1	24
42	Constructing a MoS□QDs/CdS Core/Shell Flowerlike Nanosphere Hierarchical Heterostructure for the Enhanced Stability and Photocatalytic Activity. *Molecules*, **2016**, 21,	4.8	24
41	Facile preparation of hierarchical TiO2 nanowire□anoparticle/nanotube architecture for highly efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20366-20374	13	23
40	Aperiodic TiO2 nanotube photonic crystal: full-visible-spectrum solar light harvesting in photovoltaic devices. *Scientific Reports*, **2014**, 4, 6442	4.9	23
39	A novel calendula-like MnNb2O6 anchored on graphene sheet as high-performance intercalation pseudocapacitive anode for lithium-ion capacitors. *Journal of Materials Chemistry A*, **2019**, 7, 2855-2863	13	21
38	Guided wave propagation in high-speed train axle and damage detection based on wave mode conversion. *Structural Control and Health Monitoring*, **2015**, 22, 1133-1147	4.5	19
37	Novel Solid-State Reaction Route to Synthesize Pb(Mg1/3Nb2/3)O3□PbTiO3 Ceramics with a Pure Perovskite Phase. *Chemistry of Materials*, **2007**, 19, 2718-2720	9.6	18
36	Applications of a nanocomposite-inspired in-situ broadband ultrasonic sensor to acousto-ultrasonics-based passive and active structural health monitoring. *Ultrasonics*, **2017**, 78, 166-174	3.5	16
35	Mechanics-based optimization of yolk-shell carbon-coated silicon nanoparticle as electrode materials for high-capacity lithium ion battery. *Composites Communications*, **2016**, 1, 1-5	6.7	16
34	A Polyethylene Glycol-Modified Solid-State Reaction Route to Synthesize Relaxor Ferroelectric Pb(Mg1/3Nb2/3)O3□PbTiO3 (PMN□PT). *Journal of the American Ceramic Society*, **2008**, 91, 1057-1064	3.8	13
33	Temperature-induced microstructure optimization of Co3O4 for the achievement of a high-areal-capacity carbon cloth-based lithium ion battery anode. *Composites Communications*, **2020**, 22, 100446	6.7	13
32	Hollow Nanotubes of N-Doped Carbon on CoS. *Angewandte Chemie*, **2016**, 128, 16063-16066	3.6	12
31	Effects of Nano-Aluminum Nitride on the Performance of an Ultrahigh-Temperature Inorganic Phosphate Adhesive Cured at Room Temperature. *Materials*, **2017**, 10,	3.5	12
30	Rate-independent and ultra-stable low-temperature sodium storage in pseudocapacitive TiO2 nanowires. *Journal of Materials Chemistry A*, **2019**, 7, 19297-19304	13	11
29	Enhanced multiplexing capacity of low-coherence reflectometric sensors with a loop topology. *IEEE Photonics Technology Letters*, **2002**, 14, 1157-1159	2.2	11
28	On the Adhesion performance of a single electrospun fiber. *Applied Physics A: Materials Science and Processing*, **2015**, 118, 51-56	2.6	9
27	Interfacial kinetics induced phase separation enhancing low-temperature performance of lithium-ion batteries. *Nano Energy*, **2020**, 75, 104977	17.1	9

26	Nanoscale analysis of tensile properties and fracture of nanoreinforced epoxy polymer using micromechanics. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 1224-1233	2.9	9
25	Study on Tensile Properties of Nanoreinforced Epoxy Polymer: Macroscopic Experiments and Nanoscale FEM Simulation Prediction. *Advances in Materials Science and Engineering*, **2013**, 2013, 1-8	1.5	8
24	Enhancement of multiplexing capability of low-coherence interferometric fiber sensor array by use of a loop topology. *Journal of Lightwave Technology*, **2003**, 21, 1313-1319	4	8
23	Facile synthesis of substrate supported ultrathin two-dimensional cobalt-based metal organic frameworks nanoflakes. *Composites Part A: Applied Science and Manufacturing*, **2020**, 134, 105910	8.4	7
22	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of CoO. *ACS Applied Materials & Interfaces*, **2021**, 13, 28171-28180	9.5	7
21	Advanced in-situ characterizations of nanocomposite electrodes for sodium-ion batteries – A short review. *Composites Communications*, **2021**, 25, 100635	6.7	7
20	Composite structural batteries with Co3O4/CNT modified carbon fibers as anode: Computational insights on the interfacial behavior. *Composites Science and Technology*, **2021**, 201, 108495	8.6	6
19	Ultrahigh capacity and cyclability of dual-phase TiO2 nanowires with low working potential at room and subzero temperatures. *Journal of Materials Chemistry A*, **2021**, 9, 9256-9265	13	6
18	Pyrochlore-Free Pb(Ni1/3Nb2/3)O3–PbTiO3 Ceramics with Superior Piezoelectric Properties Synthesized Using an Optimized Polyethylene Glycol-Assisted Solid-State Reaction. *Journal of the American Ceramic Society*, **2010**, 93, 2244-2251	3.8	5
17	Structural composite energy storage devices – a review. *Materials Today Energy*, **2022**, 24, 100924	7	5
16	Effects of micropore structure on hydration degree and mechanical properties of concrete in later curing age. *European Journal of Environmental and Civil Engineering*, **2016**, 20, 544-559	1.5	4
15	Manufacture and mechanical properties of sandwich structure-battery composites. *Journal of Polymer Engineering*, **2019**, 39, 838-843	1.4	4
14	Investigation on a novel bolted joint scheme for foam inserted top-hat stiffened composite plates. *Materials and Design*, **2016**, 93, 448-457	8.1	4
13	Integrating hierarchical porous nanosheets in the design of carbon cloth-based sandwiched sulfur cathodes to achieve high areal capacity in lithium sulfur batteries. *Sustainable Energy and Fuels*, **2020**, 4, 3293-3299	5.8	3
12	Investigation of mechanical performances of composite bolted joints with local reinforcements. *Science and Engineering of Composite Materials*, **2018**, 25, 75-83	1.5	3
11	Compressive Property of Basalt Fiber in Composite with Nano-indentation. *Polymers and Polymer Composites*, **2011**, 19, 235-242	0.8	3
10	Enhanced Unipolar Fatigue Resistance in Ferroelectric Pb(Ni1/3Nb2/3O3)–PbTiO3 Ceramics Prepared via Glycerol-Assisted Solid-State Reaction. *Journal of the American Ceramic Society*, **2011**, 94, 488-495	3.8	3
9	Multiplexing of fiber-optic white light interferometric sensors using a ring resonator. *Journal of Lightwave Technology*, **2002**, 20, 1471-1477	4	3

8	Fiber optic differential interferometer. *IEEE Transactions on Instrumentation and Measurement*, **2000**, 49, 779-782	5.2	3
7	Real-time and direct observation of lithiation of ultra-small tin oxide nanoparticles. *Journal of Power Sources*, **2020**, 448, 227416	8.9	3
6	Phase-microstructure-mechanical properties relationship of carbon fiber reinforced ionic liquid epoxy composites. *Composites Science and Technology*, **2021**, 207, 108711	8.6	3
5	Experimental and numerical simulation of lightning damage development on composites with/without a carbon-based protection layer. *Composite Structures*, **2021**, 260, 113452	5.3	3
4	Photovoltaic Devices: Direct and Seamless Coupling of TiO2 Nanotube Photonic Crystal to Dye-Sensitized Solar Cell: A Single-Step Approach (Adv. Mater. 47/2011). *Advanced Materials*, **2011**, 23, 5623-5623	24	2
3	Insights into self-induced electrochemical activation of carbon cathode. *Carbon*, **2022**, 188, 177-186	10.4	0
2	A sustainable LiFePO4/graphite hybrid cathode capable of stepwise cation and anion storage. *Electrochimica Acta*, **2021**, 391, 138936	6.7	0
1	Preparation, Mechanical and Thermal Properties of Poly(Butylene Terephthalate) and Its Nanocomposites Prepared from Cyclic Butylene Terephthalate. *Polymers and Polymer Composites*, **2015**, 23, 103-108	0.8	