

# Lixiang Liu

## List of Publications by Year in descending order

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38  
papers

1,905  
citations

201575

27  
h-index

315616

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Battery-Everywhere Design Based on a Cathodeless Configuration with High Sustainability and Energy Density. ACS Energy Letters, 2021, 6, 1859-1868.	8.8	35
2	A compact tube-in-tube microsized lithium-ion battery as an independent microelectric power supply unit. Cell Reports Physical Science, 2021, 2, 100429.	2.8	7
3	Antifreezing Hydrogel with High Zinc Reversibility for Flexible and Durable Aqueous Batteries by Cooperative Hydrated Cations. Advanced Functional Materials, 2020, 30, 1907218.	7.8	209
4	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. Energy Storage Materials, 2020, 27, 17-24.	9.5	54
5	Stress-Actuated Spiral Microelectrode for High-Performance Lithium-Ion Microbatteries. Small, 2020, 16, e2002410.	5.2	8
6	Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks. Advanced Science, 2020, 7, 2001561.	5.6	49
7	Decoding of Oxygen Network Distortion in a Layered High-Rate Anode by <i>In Situ</i> Investigation of a Single Microelectrode. ACS Nano, 2020, 14, 11753-11764.	7.3	10
8	Advanced architecture designs towards high-performance 3D microbatteries. Nano Materials Science, 2020, , .	3.9	18
9	PVD customized 2D porous amorphous silicon nanoflakes percolated with carbon nanotubes for high areal capacity lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 4836-4843.	5.2	21
10	Towards high-performance microscale batteries: Configurations and optimization of electrode materials by in-situ analytical platforms. Energy Storage Materials, 2020, 29, 17-41.	9.5	25
11	Self-Assembled Flexible and Integratable 3D Microtubular Asymmetric Supercapacitors. Advanced Science, 2019, 6, 1901051.	5.6	39
12	Artificial electrode interfaces enable stable operation of freestanding anodes for high-performance flexible lithium ion batteries. Journal of Materials Chemistry A, 2019, 7, 14097-14107.	5.2	21
13	Elucidating the reaction kinetics of lithium-sulfur batteries by <i>operando</i> XRD based on an open-hollow S@MnO <sub>2</sub> cathode. Journal of Materials Chemistry A, 2019, 7, 6651-6658.	5.2	41
14	3D Ag/NiO-Fe <sub>2</sub> O <sub>3</sub> /Ag nanomembranes as carbon-free cathode materials for Li-O <sub>2</sub> batteries. Energy Storage Materials, 2019, 16, 155-162.	9.5	49
15	Rationally engineered amorphous TiO <sub>x</sub> /Si/TiO <sub>x</sub> nanomembrane as an anode material for high energy lithium ion battery. Energy Storage Materials, 2018, 12, 23-29.	9.5	38
16	Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. Advanced Materials, 2018, 30, e1706637.	11.1	87
17	Tunable Pseudocapacitance in 3D TiO <sub>2</sub> Nanomembranes Enabling Superior Lithium Storage Performance. ACS Nano, 2017, 11, 821-830.	7.3	124
18	Advances on Microsized On-Chip Lithium-Ion Batteries. Small, 2017, 13, 1701847.	5.2	75

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19	Controlled synthesis of hollow octahedral ZnCo <sub>2</sub> O <sub>4</sub> nanocages assembled from ultrathin 2D nanosheets for enhanced lithium storage. <i>Nanoscale</i> , 2017, 9, 17174-17180.	2.8	36
20	Reinforcing Germanium Electrode with Polymer Matrix Decoration for Long Cycle Life Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38556-38566.	4.0	29
21	Introducing Rolled-Up Nanotechnology for Advanced Energy Storage Devices. <i>Advanced Energy Materials</i> , 2016, 6, 1600797.	10.2	49
22	Hierarchical hollow Fe <sub>2</sub> O <sub>3</sub> @MIL-101(Fe)/C derived from metal-organic frameworks for superior sodium storage. <i>Scientific Reports</i> , 2016, 6, 25556.	1.6	40
23	Morphology-controlled construction of hierarchical hollow hybrid SnO <sub>2</sub> @TiO <sub>2</sub> nanocapsules with outstanding lithium storage. <i>Scientific Reports</i> , 2015, 5, 15252.	1.6	13
24	Self-assembly formation of hollow Ni-Fe-O nanocage architectures by metal-organic frameworks with high-performance lithium storage. <i>Scientific Reports</i> , 2015, 5, 13310.	1.6	34
25	Hierarchical hollow TiO <sub>2</sub> @CeO <sub>2</sub> nanocube heterostructures for photocatalytic detoxification of cyanide. <i>RSC Advances</i> , 2015, 5, 11733-11737.	1.7	13
26	Template-Free Fabrication of Hollow NiO@Carbon Hybrid Nanoparticle Aggregates with Improved Lithium Storage. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 374-381.	1.2	26
27	Designed hierarchical synthesis of ring-shaped Bi <sub>2</sub> WO <sub>6</sub> @CeO <sub>2</sub> hybrid nanoparticle aggregates for photocatalytic detoxification of cyanide. <i>Green Chemistry</i> , 2014, 16, 2539-2545.	4.6	46
28	Morphology-controlled synthesis of Ti <sup>3+</sup> self-doped yolk-shell structure titanium oxide with superior photocatalytic activity under visible light. <i>Journal of Solid State Chemistry</i> , 2014, 213, 98-103.	1.4	14
29	Hierarchical synthesis of Mo@Sn oxide cage-bell hybrid structures with superior lithium storage. <i>Chemical Communications</i> , 2014, 50, 673-675.	2.2	35
30	General design of hollow porous CoFe <sub>2</sub> O <sub>4</sub> nanocubes from metal-organic frameworks with extraordinary lithium storage. <i>Nanoscale</i> , 2014, 6, 15168-15174.	2.8	122
31	Self-assembled hierarchical yolk-shell structured NiO@C from metal-organic frameworks with outstanding performance for lithium storage. <i>Chemical Communications</i> , 2014, 50, 9485-9488.	2.2	59
32	Designed hierarchical MnO <sub>2</sub> microspheres assembled from nanofilms for removal of heavy metal ions. <i>RSC Advances</i> , 2014, 4, 14048-14054.	1.7	46
33	Accurate hierarchical control of hollow crossed NiCo <sub>2</sub> O <sub>4</sub> nanocubes for superior lithium storage. <i>Nanoscale</i> , 2014, 6, 5491-5497.	2.8	95
34	Gold coating for a high performance Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanorod aggregates anode in lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 245, 624-629.	4.0	127
35	Hollow NiO nanotubes synthesized by bio-templates as the high performance anode materials of lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 114, 42-47.	2.6	93
36	Shape-controlled synthesis of Ag@TiO <sub>2</sub> cage-bell hybrid structure with enhanced photocatalytic activity and superior lithium storage. <i>Green Chemistry</i> , 2013, 15, 2810.	4.6	39

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37	Morphology-controlled synthesis of cage-bell Pd@CeO <sub>2</sub> structured nanoparticle aggregates as catalysts for the low-temperature oxidation of CO. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7494.	5.2	41
38	Core-shell TiO <sub>2</sub> microsphere with enhanced photocatalytic activity and improved lithium storage. <i>Journal of Solid State Chemistry</i> , 2013, 201, 137-143.	1.4	38