

Longjun Li

List of Publications by Year in descending order

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24
papers

1,686
citations

331670

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docs citations

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times ranked

3075
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Rules for Membranes from Polymers of Intrinsic Microporosity for Crossover-free Aqueous Electrochemical Devices. <i>Joule</i> , 2019, 3, 2968-2985.	24.0	84
2	Nanoporous Polymer Films with a High Cation Transference Number Stabilize Lithium Metal Anodes in Light-Weight Batteries for Electrified Transportation. <i>Nano Letters</i> , 2019, 19, 1387-1394.	9.1	59
3	Architected Macroporous Polyelectrolytes That Suppress Dendrite Formation during High-Rate Lithium Metal Electrodeposition. <i>Macromolecules</i> , 2018, 51, 7666-7671.	4.8	9
4	Materials Genomics Screens for Adaptive Ion Transport Behavior by Redox-Switchable Microporous Polymer Membranes in Lithium-Sulfur Batteries. <i>ACS Central Science</i> , 2017, 3, 399-406.	11.3	44
5	Molecular understanding of polyelectrolyte binders that actively regulate ion transport in sulfur cathodes. <i>Nature Communications</i> , 2017, 8, 2277.	12.8	117
6	Long-Life, High-Voltage Acidic Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502054.	19.5	84
7	Understanding the Redox Obstacles in High Sulfur-Loading Li-S Batteries and Design of an Advanced Gel Cathode. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1392-1399.	4.6	24
8	Understanding and controlling the chemical evolution and polysulfide-blocking ability of lithium-sulfur battery membranes cast from polymers of intrinsic microporosity. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16946-16952.	10.3	45
9	Morphological Transformations during In Situ Electrochemical Generation of 2-Dimensional Co ₃ O ₄ Hexagonal Nanoplates. <i>Journal of the Electrochemical Society</i> , 2016, 163, A150-A155.	2.9	13
10	Enhanced Cycling Stability of Hybrid Li-Air Batteries Enabled by Ordered Pd ₃ Fe Intermetallic Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 7278-7281.	13.7	149
11	Expandable-graphite-derived graphene for next-generation battery chemistries. <i>Journal of Power Sources</i> , 2015, 284, 60-67.	7.8	25
12	VO ₂ /rGO nanorods as a potential anode for sodium- and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14750-14758.	10.3	99
13	Delineating the roles of Co ₃ O ₄ and N-doped carbon nanoweb (CNW) in bifunctional Co ₃ O ₄ /CNW catalysts for oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11615-11623.	10.3	91
14	Dual-template synthesis of N-doped macro/mesoporous carbon with an open-pore structure as a metal-free catalyst for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 300, 254-260.	7.8	21
15	Hierarchical pore-in-pore and wire-in-wire catalysts for rechargeable Zn- and Li-air batteries with ultra-long cycle life and high cell efficiency. <i>Energy and Environmental Science</i> , 2015, 8, 3274-3282.	30.8	107
16	Co ₃ O ₄ nanocrystals coupled with O- and N-doped carbon nanoweb as a synergistic catalyst for hybrid Li-air batteries. <i>Nano Energy</i> , 2015, 12, 852-860.	16.0	92
17	Hybrid and Aqueous Lithium-Air Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401302.	19.5	131
18	O- and N-Doped Carbon Nanoweb as Metal-Free Catalysts for Hybrid Li-Air Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301795.	19.5	89

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19	Advanced hybrid Li-air batteries with high-performance mesoporous nanocatalysts. <i>Energy and Environmental Science</i> , 2014, 7, 2630.	30.8	129
20	Decoupled bifunctional air electrodes for high-performance hybrid lithium-air batteries. <i>Nano Energy</i> , 2014, 9, 94-100.	16.0	60
21	Imidazole-buffered acidic catholytes for hybrid Li-air batteries with high practical energy density. <i>Electrochemistry Communications</i> , 2014, 47, 67-70.	4.7	29
22	Dual-electrolyte lithium-air batteries: influence of catalyst, temperature, and solid-electrolyte conductivity on the efficiency and power density. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5121.	10.3	52
23	Polyprotic acid catholyte for high capacity dual-electrolyte Li-air batteries. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12737.	2.8	38
24	A dual-electrolyte rechargeable Li-air battery with phosphate buffer catholyte. <i>Electrochemistry Communications</i> , 2012, 14, 78-81.	4.7	95