

# Lithium-sulfur batteries: Problems and solutions

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Electrochemical Processes and Technology. Monographs in Electrochemistry, 2010, , 309-349.	0.2	1
2	A high energy density lithium/sulfur-oxygen hybrid battery. Journal of Power Sources, 2010, 195, 3684-3688.	7.8	27
3	Graphene Oxide as a Sulfur Immobilizer in High Performance Lithium/Sulfur Cells. Journal of the American Chemical Society, 2011, 133, 18522-18525.	13.7	1,415
4	Battery Technologies for Large-Scale Stationary Energy Storage. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 503-527.	6.8	355
5	Clean energy new deal for a sustainable world: from non-CO2 generating energy sources to greener electrochemical storage devices. Energy and Environmental Science, 2011, 4, 2003.	30.8	626
6	Effect of Lithium Polysulfides on the Morphology of Block Copolymer Electrolytes. Macromolecules, 2011, 44, 9267-9275.	4.8	22
7	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. Physical Chemistry Chemical Physics, 2011, 13, 7660.	2.8	347
8	Porous carbon nanofiber-sulfur composite electrodes for lithium/sulfur cells. Energy and Environmental Science, 2011, 4, 5053.	30.8	562
9	Optimization of mesoporous carbon structures for lithium-sulfur battery applications. Journal of Materials Chemistry, 2011, 21, 16603.	6.7	417
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13	Porous Hollow Carbon@Sulfur Composites for High-Power Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2011, 50, 5904-5908.	13.8	1,587
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15	A microporous-mesoporous carbon with graphitic structure for a high-rate stable sulfur cathode in carbonate solvent-based Li-S batteries. Physical Chemistry Chemical Physics, 2012, 14, 8703.	2.8	273
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17	Lithium/Sulfur Cell Discharge Mechanism: An Original Approach for Intermediate Species Identification. Analytical Chemistry, 2012, 84, 3973-3980.	6.5	832
18	A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. Energy and Environmental Science, 2012, 5, 8901.	30.8	468
19	Present and Future Role of Battery Electrical Vehicles in Private and Public Urban Transport. , 0, , .		10

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20	Analysis of Polysulfide Dissolved in Electrolyte in Discharge-Charge Process of Li-S Battery. Journal of the Electrochemical Society, 2012, 159, A421-A425.	2.9	158
21	New insights into the limiting parameters of the Li/S rechargeable cell. Journal of Power Sources, 2012, 199, 322-330.	7.8	356
22	A new direction for the performance improvement of rechargeable lithium/sulfur batteries. Journal of Power Sources, 2012, 200, 77-82.	7.8	274
23	Influence of different electrode compositions and binder materials on the performance of lithium-sulfur batteries. Journal of Power Sources, 2012, 205, 420-425.	7.8	109
24	One-step synthesis of branched sulfur/polypyrrole nanocomposite cathode for lithium rechargeable batteries. Journal of Power Sources, 2012, 208, 1-8.	7.8	121
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34	Shuttle phenomenon – The irreversible oxidation mechanism of sulfur active material in Li-S battery. Journal of Power Sources, 2013, 235, 181-186.	7.8	259
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37	Capacity fading mechanism in lithium sulfur cells using poly(ethylene glycol)-borate ester as plasticizer for polymer electrolytes. Journal of Power Sources, 2013, 242, 478-485.	7.8	49

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39	Investigations of lithium-sulfur batteries using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2013, 97, 42-51.	5.2	353
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43	Electrochemical properties of ether-based electrolytes for lithium/sulfur rechargeable batteries. <i>Electrochimica Acta</i> , 2013, 89, 737-743.	5.2	123
44	Improved electrochemical performances of sulfur-microporous carbon composite electrode for Li/S battery. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 245-252.	2.9	15
45	Carbon-sulfur composites for Li-S batteries: status and prospects. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9382.	10.3	757
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57	A sulfur-polyacrylonitrile/graphene composite cathode for lithium batteries with excellent cyclability. <i>Journal of Power Sources</i> , 2014, 252, 107-112.	7.8	73
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66	In Situ Sulfur Reduction and Intercalation of Graphite Oxides for Li-S Battery Cathodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400482.	19.5	118
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130	Improving electrochemical performance of Li-S rechargeable cell by cathode composition modification. <i>Materials Letters</i> , 2018, 227, 176-178.	2.6	3
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