Xia Li

List of Publications by Year
in descending order

34 papers	4,158 citations	136740 32 h-index	377514 34 g-index
34 all docs	34 docs citations	34 times ranked	5480 citing authors

#	Article	IF	Citations
1	Dual-functional interfaces for highly stable Ni-rich layered cathodes in sulfide all-solid-state batteries. Energy Storage Materials, 2020, 27, 117-123.	9.5	109
2	Engineering the conductive carbon/PEO interface to stabilize solid polymer electrolytes for all-solid-state high voltage LiCoO₂ batteries. Journal of Materials Chemistry A, 2020, 8, 2769-2776.	5.2	72
3	Engineering Surface Oxygenated Functionalities on Commercial Carbon toward Ultrafast Sodium Storage in Ether-Based Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 37116-37127.	4.0	13
4	Eliminating the Detrimental Effects of Conductive Agents in Sulfide-Based Solid-State Batteries. ACS Energy Letters, 2020, 5, 1243-1251.	8.8	80
5	Ultrastable Anode Interface Achieved by Fluorinating Electrolytes for All-Solid-State Li Metal Batteries. ACS Energy Letters, 2020, 5, 1035-1043.	8.8	176
6	Advanced characterization techniques for solid state lithium battery research. Materials Today, 2020, 36, 139-157.	8.3	86
7	Li₁₀Ge(P_{1â€“<i>x</i>}Sb<i>_x</i>)₂S₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. Chemistry of Materials, 2020, 32, 2664-2672.	3.2	125
8	Suppressing Corrosion of Aluminum Foils via Highly Conductive Graphene-like Carbon Coating in High-Performance Lithium-Based Batteries. ACS Applied Materials & Interfaces, 2019, 11, 32826-32832.	4.0	39
9	Unravelling the Chemistry and Microstructure Evolution of a Cathodic Interface in Sulfide-Based All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2019, 4, 2480-2488.	8.8	154
10	Promoting the Transformation of Li₂S₂ to Li₂S: Significantly Increasing Utilization of Active Materials for Highâ€Sulfurâ€Loading Liâ€“S Batteries. Advanced Materials, 2019, 31, e1901220.	11.1	303
11	Solidâ€State Plastic Crystal Electrolytes: Effective Protection Interlayers for Sulfideâ€Based Allâ€Solidâ€State Lithium Metal Batteries. Advanced Functional Materials, 2019, 29, 1900392.	7.8	154
12	Manipulating Interfacial Nanostructure to Achieve Highâ€Performance Allâ€Solidâ€State Lithiumâ€Ion Batteries. Small Methods, 2019, 3, 1900261.	4.6	90
13	Highâ€Performance Liâ€“SeS<i>_x</i> Allâ€Solidâ€State Lithium Batteries. Advanced Materials, 2019, 31, e1808100.	11.1	121
14	Robust Metallic Lithium Anode Protection by the Molecularâ€Layerâ€Deposition Technique. Small Methods, 2018, 2, 1700417.	4.6	84
15	Boosting the performance of lithium batteries with solid-liquid hybrid electrolytes: Interfacial properties and effects of liquid electrolytes. Nano Energy, 2018, 48, 35-43.	8.2	143
16	Carbon paper interlayers: A universal and effective approach for highly stable Li metal anodes. Nano Energy, 2018, 43, 368-375.	8.2	117
17	Multi-functional nanowall arrays with unrestricted Li⁺ transport channels and an integrated conductive network for high-areal-capacity Liâ€“S batteries. Journal of Materials Chemistry A, 2018, 6, 22958-22965.	5.2	31
18	Stabilization of all-solid-state Liâ€“S batteries with a polymerâ€“ceramic sandwich electrolyte by atomic layer deposition. Journal of Materials Chemistry A, 2018, 6, 23712-23719.	5.2	77

#	Article	IF	Citations
19	A high-energy sulfur cathode in carbonate electrolyte by eliminating polysulfides via solid-phase lithium-sulfur transformation. Nature Communications, 2018, 9, 4509.	5.8	175
20	Interface Design and Development of Coating Materials in Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1801323.	7.8	91
21	Structural Design of Lithiumâ€“Sulfur Batteries: From Fundamental Research to Practical Application. Electrochemical Energy Reviews, 2018, 1, 239-293.	13.1	298
22	High-performance all-solid-state Liâ€“Se batteries induced by sulfide electrolytes. Energy and Environmental Science, 2018, 11, 2828-2832.	15.6	99
23	Origin of the high oxygen reduction reaction of nitrogen and sulfur co-doped MOF-derived nanocarbon electrocatalysts. Materials Horizons, 2017, 4, 900-907.	6.4	95
24	Atomic Layer Deposited Nonâ€Noble Metal Oxide Catalyst for Sodiumâ€“Air Batteries: Tuning the Morphologies and Compositions of Discharge Product. Advanced Functional Materials, 2017, 27, 1606662.	7.8	34
25	Safe and Durable High-Temperature Lithiumâ€“Sulfur Batteries via Molecular Layer Deposited Coating. Nano Letters, 2016, 16, 3545-3549.	4.5	157
26	Metal organic frameworks for energy storage and conversion. Energy Storage Materials, 2016, 2, 35-62.	9.5	483
27	Tunable porous structure of metal organic framework derived carbon and the application in lithiumâ€“sulfur batteries. Journal of Power Sources, 2016, 302, 174-179.	4.0	100
28	Toward a Sodiumâ€“â€œAirâ€•Battery: Revealing the Critical Role of Humidity. Journal of Physical Chemistry C, 2015, 119, 13433-13441.	1.5	66
29	Three-Dimensional Nanostructured Air Electrode for Sodiumâ€“Oxygen Batteries: A Mechanism Study toward the Cyclability of the Cell. Chemistry of Materials, 2015, 27, 3040-3047.	3.2	86
30	Extremely Stable Platinum Nanoparticles Encapsulated in a Zirconia Nanocage by Areaâ€Selective Atomic Layer Deposition for the Oxygen Reduction Reaction. Advanced Materials, 2015, 27, 277-281.	11.1	238
31	Graphene Nanoribbons Derived from the Unzipping of Carbon Nanotubes: Controlled Synthesis and Superior Lithium Storage Performance. Journal of Physical Chemistry C, 2014, 118, 881-890.	1.5	93
32	Superior stable sulfur cathodes of Liâ€“S batteries enabled by molecular layer deposition. Chemical Communications, 2014, 50, 9757.	2.2	56
33	Tailoring interactions of carbon and sulfur in Liâ€“S battery cathodes: significant effects of carbonâ€“heteroatom bonds. Journal of Materials Chemistry A, 2014, 2, 12866.	5.2	75
34	Nanoscale stabilization of Liâ€“sulfur batteries by atomic layer deposited Al2O3. RSC Advances, 2014, 4, 27126.	1.7	38