

Jia-Qi Huang

List of Publications by Year in descending order

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345
papers

49,456
citations

1040

113
h-index

1792

211
g-index

370
all docs

370
docs citations

370
times ranked

22195
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on High-Loading and High-Energy Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700260.	10.2	1,307
2	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016, 16, 519-527.	4.5	1,294
3	Nanostructured Metal Oxides and Sulfides for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1601759.	11.1	1,197
4	Dendrite-Free Lithium Deposition Induced by Uniformly Distributed Lithium Ions for Efficient Lithium Metal Batteries. <i>Advanced Materials</i> , 2016, 28, 2888-2895.	11.1	877
5	Permselective Graphene Oxide Membrane for Highly Stable and Anti-Self-Discharge Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015, 9, 3002-3011.	7.3	723
6	An anion-immobilized composite electrolyte for dendrite-free lithium metal anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11069-11074.	3.3	710
7	A review of rechargeable batteries for portable electronic devices. <i>Informa-Materials</i> , 2019, 1, 6-32.	8.5	694
8	Design Principles for Heteroatom-Doped Nanocarbon to Achieve Strong Anchoring of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016, 12, 3283-3291.	5.2	661
9	Ionic shield for polysulfides towards highly-stable lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2014, 7, 347-353.	15.6	624
10	The Road for Nanomaterials Industry: A Review of Carbon Nanotube Production, Post-Treatment, and Bulk Applications for Composites and Energy Storage. <i>Small</i> , 2013, 9, 1237-1265.	5.2	617
11	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014, 5, 3410.	5.8	602
12	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5301-5305.	7.2	601
13	Conductive Nanostructured Scaffolds Render Low Local Current Density to Inhibit Lithium Dendrite Growth. <i>Advanced Materials</i> , 2016, 28, 2155-2162.	11.1	591
14	Multi-functional separator/interlayer system for high-stable lithium-sulfur batteries: Progress and prospects. <i>Energy Storage Materials</i> , 2015, 1, 127-145.	9.5	581
15	A review of flexible lithium-sulfur and analogous alkali metal-chalcogen rechargeable batteries. <i>Chemical Society Reviews</i> , 2017, 46, 5237-5288.	18.7	572
16	Nitrogen-Doped Graphene/Carbon Nanotube Hybrids: In Situ Formation on Bifunctional Catalysts and Their Superior Electrocatalytic Activity for Oxygen Evolution/Reduction Reaction. <i>Small</i> , 2014, 10, 2251-2259.	5.2	571
17	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12990-12995.	7.2	560
18	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2012, 22, 675-694.	7.8	537

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19	Nitrogen-Doped Aligned Carbon Nanotube/Graphene Sandwiches: Facile Catalytic Growth on Bifunctional Natural Catalysts and Their Applications as Scaffolds for High-Rate Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 6100-6105.	11.1	534
20	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 9551-9558.	11.1	514
21	Graphene/Single-Walled Carbon Nanotube Hybrids: One-Step Catalytic Growth and Applications for High-Rate Li-S Batteries. <i>ACS Nano</i> , 2012, 6, 10759-10769.	7.3	508
22	Artificial Interphases for Highly Stable Lithium Metal Anode. <i>Matter</i> , 2019, 1, 317-344.	5.0	508
23	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802768.	10.2	508
24	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 2772-2781.	7.8	495
25	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6105-6112.	7.8	476
26	Implantable Solid Electrolyte Interphase in Lithium-Metal Batteries. <i>Chem</i> , 2017, 2, 258-270.	5.8	474
27	Artificial Soft-Rigid Protective Layer for Dendrite-Free Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2018, 28, 1705838.	7.8	470
28	Direct Growth of Graphene/Hexagonal Boron Nitride Stacked Layers. <i>Nano Letters</i> , 2011, 11, 2032-2037.	4.5	466
29	A Perspective toward Practical Lithium-Sulfur Batteries. <i>ACS Central Science</i> , 2020, 6, 1095-1104.	5.3	442
30	Lithium Bond Chemistry in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8178-8182.	7.2	439
31	Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9422-9429.	6.6	429
32	Lithium-Sulfur Batteries under Lean Electrolyte Conditions: Challenges and Opportunities. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12636-12652.	7.2	425
33	Beyond lithium ion batteries: Higher energy density battery systems based on lithium metal anodes. <i>Energy Storage Materials</i> , 2018, 12, 161-175.	9.5	422
34	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14055-14059.	7.2	410
35	Dual-Layered Film Protected Lithium Metal Anode to Enable Dendrite-Free Lithium Deposition. <i>Advanced Materials</i> , 2018, 30, e1707629.	11.1	378
36	Regulating Interfacial Chemistry in Lithium-Ion Batteries by a Weakly Solvating Electrolyte**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4090-4097.	7.2	373

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37	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries. <i>Nano Energy</i> , 2014, 4, 65-72.	8.2	366
38	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400227.	1.9	351
39	An Armored Mixed Conductor Interphase on a Dendrite-Free Lithium-Metal Anode. <i>Advanced Materials</i> , 2018, 30, e1804461.	11.1	338
40	Toward Full Exposure of "Active Sites": Nanocarbon Electrocatalyst with Surface Enriched Nitrogen for Superior Oxygen Reduction and Evolution Reactivity. <i>Advanced Functional Materials</i> , 2014, 24, 5956-5961.	7.8	332
41	Carbon Nanotube Mass Production: Principles and Processes. <i>ChemSusChem</i> , 2011, 4, 864-889.	3.6	329
42	The gap between long lifespan Li-S coin and pouch cells: The importance of lithium metal anode protection. <i>Energy Storage Materials</i> , 2017, 6, 18-25.	9.5	325
43	A Review of Functional Binders in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802107.	10.2	324
44	Regulating Anions in the Solvation Sheath of Lithium Ions for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2019, 4, 411-416.	8.8	323
45	A review on energy chemistry of fast-charging anodes. <i>Chemical Society Reviews</i> , 2020, 49, 3806-3833.	18.7	323
46	Controlling Dendrite Growth in Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2020, 5, 833-843.	8.8	322
47	Rational Integration of Polypropylene/Graphene Oxide/Nafion as Ternary-Layered Separator to Retard the Shuttle of Polysulfides for Lithium-Sulfur Batteries. <i>Small</i> , 2016, 12, 381-389.	5.2	315
48	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1903813.	11.1	310
49	Dual-Phase Lithium Metal Anode Containing a Polysulfide-Induced Solid Electrolyte Interphase and Nanostructured Graphene Framework for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2015, 9, 6373-6382.	7.3	297
50	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3779-3783.	7.2	296
51	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016, 3, 1500268.	5.6	294
52	Annealing a graphene oxide film to produce a free standing high conductive graphene film. <i>Carbon</i> , 2012, 50, 659-667.	5.4	287
53	Rational design of two-dimensional nanomaterials for lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2020, 13, 1049-1075.	15.6	285
54	Fast Charging Lithium Batteries: Recent Progress and Future Prospects. <i>Small</i> , 2019, 15, e1805389.	5.2	277

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55	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, 1705219.	11.1	276
56	Lithiophilic LiC ₆ Layers on Carbon Hosts Enabling Stable Li Metal Anode in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1807131.	11.1	273
57	An Analogous Periodic Law for Strong Anchoring of Polysulfides on Polar Hosts in Lithium Sulfur Batteries: S- or Li-Binding on First-Row Transition-Metal Sulfides?. <i>ACS Energy Letters</i> , 2017, 2, 795-801.	8.8	264
58	Expediting redox kinetics of sulfur species by atomic-scale electrocatalysts in lithium-sulfur batteries. <i>Informa Mater</i> , 2019, 1, 533-541.	8.5	261
59	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium-Sulfur Batteries: Progress and Prospects. <i>Advanced Functional Materials</i> , 2018, 28, 1707536.	7.8	251
60	Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1909887.	7.8	251
61	Critical Current Density in Solid-State Lithium Metal Batteries: Mechanism, Influences, and Strategies. <i>Advanced Functional Materials</i> , 2021, 31, 2009925.	7.8	239
62	Inhibiting Solvent Co-Intercalation in a Graphite Anode by a Localized High-Concentration Electrolyte in Fast-Charging Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3402-3406.	7.2	238
63	Li ₂ S ₅ -based ternary-salt electrolyte for robust lithium metal anode. <i>Energy Storage Materials</i> , 2016, 3, 77-84.	9.5	236
64	Entrapment of sulfur in hierarchical porous graphene for lithium-sulfur batteries with high rate performance from 40 to 60°C. <i>Nano Energy</i> , 2013, 2, 314-321.	8.2	230
65	A Toolbox for Lithium-Sulfur Battery Research: Methods and Protocols. <i>Small Methods</i> , 2017, 1, 1700134.	4.6	230
66	Review Li Metal Anode in Working Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A6058-A6072.	1.3	227
67	Dual-Phase Single-Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. <i>Advanced Materials</i> , 2019, 31, e1808392.	11.1	224
68	Lithium metal protection through in-situ formed solid electrolyte interphase in lithium-sulfur batteries: The role of polysulfides on lithium anode. <i>Journal of Power Sources</i> , 2016, 327, 212-220.	4.0	222
69	A Sustainable Solid Electrolyte Interphase for High-Energy-Density Lithium Metal Batteries Under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3252-3257.	7.2	221
70	Lithium-matrix composite anode protected by a solid electrolyte layer for stable lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2019, 37, 29-34.	7.1	219
71	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 6351-6358.	7.8	216
72	Sulfurized solid electrolyte interphases with a rapid Li ⁺ diffusion on dendrite-free Li metal anodes. <i>Energy Storage Materials</i> , 2018, 10, 199-205.	9.5	215

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73	Porphyrin-Derived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800849.	10.2	211
74	A perspective on sustainable energy materials for lithium batteries. <i>SusMat</i> , 2021, 1, 38-50.	7.8	208
75	Ion-Solvent Complexes Promote Gas Evolution from Electrolytes on a Sodium Metal Anode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 734-737.	7.2	208
76	The timescale identification decoupling complicated kinetic processes in lithium batteries. <i>Joule</i> , 2022, 6, 1172-1198.	11.7	207
77	Columnar Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14207-14211.	7.2	199
78	Liquid phase therapy to solid electrolyte-electrode interface in solid-state Li metal batteries: A review. <i>Energy Storage Materials</i> , 2020, 24, 75-84.	9.5	199
79	Healing High-Loading Sulfur Electrodes with Unprecedented Long Cycling Life: Spatial Heterogeneity Control. <i>Journal of the American Chemical Society</i> , 2017, 139, 8458-8466.	6.6	198
80	A compact inorganic layer for robust anode protection in lithium-sulfur batteries. <i>Informa Materials</i> , 2020, 2, 379-388.	8.5	197
81	Advanced energy materials for flexible batteries in energy storage: A review. <i>SmartMat</i> , 2020, 1, .	6.4	186
82	A review on the failure and regulation of solid electrolyte interphase in lithium batteries. <i>Journal of Energy Chemistry</i> , 2021, 59, 306-319.	7.1	183
83	Advanced Electrode Materials in Lithium Batteries: Retrospect and Prospect. <i>Energy Material Advances</i> , 2021, 2021, .	4.7	179
84	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. <i>Nano Research</i> , 2011, 4, 870-881.	5.8	178
85	Embedded High Density Metal Nanoparticles with Extraordinary Thermal Stability Derived from Guest-Host Mediated Layered Double Hydroxides. <i>Journal of the American Chemical Society</i> , 2010, 132, 14739-14741.	6.6	177
86	Redox Comediation with Organopolysulfides in Working Lithium-Sulfur Batteries. <i>CheM</i> , 2020, 6, 3297-3311.	5.8	177
87	Semi-Immobilized Molecular Electrocatalysts for High-Performance Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021, 143, 19865-19872.	6.6	173
88	Scaled-up fabrication of porous-graphene-modified separators for high-capacity lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2017, 7, 56-63.	9.5	172
89	Towards stable lithium-sulfur batteries: Mechanistic insights into electrolyte decomposition on lithium metal anode. <i>Energy Storage Materials</i> , 2017, 8, 194-201.	9.5	171
90	An Organodiselenide Comediator to Facilitate Sulfur Redox Kinetics in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021, 33, e2007298.	11.1	171

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91	The Radical Pathway Based on a Lithium-Metal-Compatible High-Dielectric Electrolyte for Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16732-16736.	7.2	170
92	Recent Advances in Energy Chemical Engineering of Next-Generation Lithium Batteries. <i>Engineering</i> , 2018, 4, 831-847.	3.2	169
93	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11442-11447.	7.2	169
94	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithium-sulfur batteries. <i>Nano Energy</i> , 2015, 11, 746-755.	8.2	168
95	Plating/Stripping Behavior of Actual Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1902254.	10.2	168
96	Catalytic Self-Limited Assembly at Hard Templates: A Mesoscale Approach to Graphene Nanoshells for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2014, 8, 11280-11289.	7.3	166
97	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9011-9017.	7.2	164
98	Promoting the sulfur redox kinetics by mixed organodiselenides in high-energy-density lithium-sulfur batteries. <i>EScience</i> , 2021, 1, 44-52.	25.0	159
99	Dendrite-Free Nanostructured Anode: Entrapment of Lithium in a 3D Fibrous Matrix for Ultra-Stable Lithium-Sulfur Batteries. <i>Small</i> , 2014, 10, 4257-4263.	5.2	154
100	Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , 2019, 1, 100003.	10.1	146
101	Identifying the Critical Anion-Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithium-Metal Anode Interface. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4215-4220.	7.2	145
102	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. <i>Carbon</i> , 2013, 58, 99-106.	5.4	143
103	Alloy Anodes for Rechargeable Alkali-Metal Batteries: Progress and Challenge. , 2019, 1, 217-229.		135
104	Rapid Lithium Diffusion in Order@Disorder Pathways for Fast-Charging Graphite Anodes. <i>Small Structures</i> , 2020, 1, 2000010.	6.9	130
105	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100748.	10.2	129
106	Sulfur Redox Reactions at Working Interfaces in Lithium-Sulfur Batteries: A Perspective. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802046.	1.9	128
107	A Quinonoid-Mine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017, 29, 1606802.	11.1	127
108	Perspective on the critical role of interface for advanced batteries. <i>Journal of Energy Chemistry</i> , 2020, 47, 217-220.	7.1	127

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109	Stable Anion-Derived Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22683-22687.	7.2	125
110	Polysulfide shuttle control: Towards a lithium-sulfur battery with superior capacity performance up to 1000 cycles by matching the sulfur/electrolyte loading. <i>Journal of Power Sources</i> , 2014, 253, 263-268.	4.0	124
111	Hierarchical Composites of Single/Double-Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010, 20, 677-685.	7.8	123
112	Electrochemical Diagram of an Ultrathin Lithium Metal Anode in Pouch Cells. <i>Advanced Materials</i> , 2019, 31, e1902785.	11.1	121
113	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. <i>Small</i> , 2015, 11, 5243-5252.	5.2	120
114	The Boundary of Lithium Plating in Graphite Electrode for Safe Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13007-13012.	7.2	120
115	Lithium Nitrate Solvation Chemistry in Carbonate Electrolyte Sustains High-Voltage Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2018, 130, 14251-14255.	1.6	117
116	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020, 2, e12019.	6.8	117
117	Highly Stable Lithium Metal Batteries Enabled by Regulating the Solvation of Lithium Ions in Nonaqueous Electrolytes. <i>Angewandte Chemie</i> , 2018, 130, 5399-5403.	1.6	116
118	Enhanced Electrochemical Kinetics on Conductive Polar Mediators for Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016, 128, 13184-13189.	1.6	115
119	The Catalytic Pathways of Hydrohalogenation over Metal-Free Nitrogen-Doped Carbon Nanotubes. <i>ChemSusChem</i> , 2014, 7, 723-728.	3.6	114
120	A Review of Advanced Energy Materials for Magnesium-Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2018, 1, 100-112.	7.3	112
121	Toward Practical High-Energy-Density Lithium-Sulfur Pouch Cells: A Review. <i>Advanced Materials</i> , 2022, 34, e2201555.	11.1	112
122	Towards high purity graphene/single-walled carbon nanotube hybrids with improved electrochemical capacitive performance. <i>Carbon</i> , 2013, 54, 403-411.	5.4	110
123	Toward Practical High-Energy Batteries: A Modular-Assembled Oval-Like Carbon Microstructure for Thick Sulfur Electrodes. <i>Advanced Materials</i> , 2017, 29, 1700598.	11.1	110
124	The carrier transition from Li atoms to Li vacancies in solid-state lithium alloy anodes. <i>Science Advances</i> , 2021, 7, eabi5520.	4.7	110
125	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10732-10745.	7.2	108
126	Shielding Polysulfide Intermediates by an Organosulfur-Containing Solid Electrolyte Interphase on the Lithium Anode in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e2003012.	11.1	108

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127	Electrolyte Structure of Lithium Polysulfides with Anti-Reductive Solvent Shells for Practical Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15503-15509.	7.2	108
128	Dry electrode technology, the rising star in solid-state battery industrialization. <i>Matter</i> , 2022, 5, 876-898.	5.0	108
129	A review of solid electrolytes for safe lithium-sulfur batteries. <i>Science China Chemistry</i> , 2017, 60, 1508-1526.	4.2	105
130	Hierarchical Vine-Like Carbon Nanotube Architectures: In-Situ CVD Self-Assembly and Their Use as Robust Scaffolds for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2014, 26, 7051-7058.	11.1	104
131	Effective exposure of nitrogen heteroatoms in 3D porous graphene framework for oxygen reduction reaction and lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2018, 27, 167-175.	7.1	103
132	Toward the Scale-Up of Solid-State Lithium Metal Batteries: The Gaps between Lab-Level Cells and Practical Large-Format Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2002360.	10.2	103
133	Current-density dependence of Li_2S growth in lithium-sulfur batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2976-2982.	15.6	102
134	Vertically aligned carbon nanotube arrays grown on a lamellar catalyst by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2009, 47, 2600-2610.	5.4	101
135	Hydrothermal synthesis of porous phosphorus-doped carbon nanotubes and their use in the oxygen reduction reaction and lithium-sulfur batteries. <i>New Carbon Materials</i> , 2016, 31, 352-362.	2.9	100
136	Dictating High-Capacity Lithium-Sulfur Batteries through Redox-Mediated Lithium Sulfide Growth. <i>Small Methods</i> , 2020, 4, 1900344.	4.6	99
137	Lithium-Anode Protection in Lithium-Sulfur Batteries. <i>Trends in Chemistry</i> , 2019, 1, 693-704.	4.4	98
138	Carbon Nanotube Array Double Helices. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3642-3645.	7.2	96
139	Zn-MnO_2 nanofibers/carbon nanotubes hierarchically assembled microspheres: Approaching practical applications of high-performance aqueous Zn-ion batteries. <i>Journal of Power Sources</i> , 2019, 443, 227244.	4.0	95
140	The formation of strong-couple interactions between nitrogen-doped graphene and sulfur/lithium (poly)sulfides in lithium-sulfur batteries. <i>2D Materials</i> , 2015, 2, 014011.	2.0	94
141	Radial growth of vertically aligned carbon nanotube arrays from ethylene on ceramic spheres. <i>Carbon</i> , 2008, 46, 1152-1158.	5.4	93
142	Mechanism understanding for stripping electrochemistry of Li metal anode. <i>SusMat</i> , 2021, 1, 506-536.	7.8	93
143	100- μm Long, Semiconducting Triple-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2010, 22, 1867-1871.	11.1	91
144	Review of nanostructured current collectors in lithium-sulfur batteries. <i>Nano Research</i> , 2017, 10, 4027-4054.	5.8	91

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145	In situ regulated solid electrolyte interphase via reactive separators for highly efficient lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 30, 27-33.	9.5	90
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