Jia-Qi Huang

List of Articles by Year
in descending order

504 peer-reviewed articles	63,906 peer-reviewed citations	517 126 peer-reviewed h-index	1068 238 g-index
532 documents	71054 doc citations	671 132 h-index	43534 citing authors

#	Article	IF	Citations
1	Electrolyte Additive for Interfacial Engineering of Lithium and Zinc Metal Anodes. Advanced Energy Materials, 2025, 15, .	22.5	58
2	The Regulation of Solid Electrolyte Interphase on Composite Lithium Anodes in Solidâ€State Batteries. Angewandte Chemie - International Edition, 2025, 64, .	14.4	33
3	The Regulation of Solid Electrolyte Interphase on Composite Lithium Anodes in Solidâ€State Batteries. Angewandte Chemie, 2025, 137, .	1.4	2
4	Innovative Anode Design to Enhance Both Volumetric and Gravimetric Energy Densities of LiCoO2||Graphite Pouch Cells. Advanced Energy Materials, 2025, 15, .	22.5	13
5	Enabling Highâ€Rate and Longâ€Cycling Zincâ€“Air Batteries with a Î”E = 0.56 V Bifunctional Oxygen Electrocatalyst. Advanced Functional Materials, 2025, 35, .	17.0	18
6	Optimizing Electrocatalysis and Domain Effects of Graphene on Li2S Cathodes for Highâ€Efficientâ€Stable Liâ”€S Batteries. Small, 2025, 21, .	11.5	1
7	Long-Cycling Lithiumâ€“Sulfur Batteries Enabled by Reactivating Inactive Lithium. ACS Energy Letters, 2025, 10, 313-319.	17.0	18
8	Fireâ€Resistant Carboxylateâ€Based Electrolyte for Safe and Wideâ€Temperature Lithiumâ€Ion Batteries. Advanced Energy Materials, 2025, 15, .	22.5	14
9	Competitive coordination enhancing the thermal stability of PDOL electrolytes for safe solid-state lithium metal batteries. Nano Research, 2025, 18, 94907220.	8.6	11
10	Enhancement of Singleâ€Molecule Magnet Properties by Manipulating Intramolecular Dipolar Interactions (Adv. Sci. 1/2025). Advanced Science, 2025, 12, .	12.6	0
11	Oxygen defect-mediated Li-ion transport for long-cycle solid-state lithium metal batteries. Chinese Chemical Letters, 2025, 37, 110851.	7.5	3
12	A Robust Dualâ€Layered Solid Electrolyte Interphase Enabled by Cation Specific Adsorptionâ€Induced Builtâ€In Electrostatic Field for Longâ€Cycling Solidâ€State Lithium Metal Batteries. Angewandte Chemie - International Edition, 2025, 64, .	14.4	39
13	A Robust Dualâ€Layered Solid Electrolyte Interphase Enabled by Cation Specific Adsorptionâ€Induced Builtâ€In Electrostatic Field for Longâ€Cycling Solidâ€State Lithium Metal Batteries. Angewandte Chemie, 2025, 137, .	1.4	1
14	The shifting technology landscape of electrical energy storage toward carbon neutrality in China. , 2025, , 9550004.		1
15	Nonlinear dynamics of a simplified subcritical thermoacoustic system under axial structure vibration. Applied Thermal Engineering, 2025, 266, 125735.	6.6	3
16	Electron-deficient two-dimensional poly(arylene vinylene) covalent organic frameworks: efficient synthesis and hostâ€“guest interaction. Chemical Science, 2025, 16, 4152-4158.	7.1	2
17	Advances in high-coulombic-efficiency lithium metal anodes under practical conditions in liquid electrolytes. , 2025, 1, 340-363.		28
18	Unveiling the Capacity Enhancement Mechanism of Carbon Interlayers in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2025, 15, .	22.5	12

#	Article	IF	Citations
19	Promoting Granular Lithium Sulfide Growth by Soft Acidicâ€“Hard Basic Ionomer Binder for Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2025, 10, 1654-1663.	17.0	10
20	Polysulfide chemistry in metalâ€“sulfur batteries. Chemical Society Reviews, 2025, 54, 4822-4873.	37.7	74
21	Mechanical properties of new bolted nodes of ultra-high performance concrete assembly wall panels. Structures, 2025, 76, 108881.	3.7	1
22	Amorphous fluorinated interphase enables fast Li-ion kinetics in sulfide-based all-solid-state lithium metal batteries. Journal of Energy Chemistry, 2025, 107, 277-284.	14.2	16
23	Dataâ€“Knowledgeâ€Dualâ€Driven Electrolyte Design for Fastâ€Charging Lithium Ion Batteries. Angewandte Chemie - International Edition, 2025, 64, .	14.4	35
24	Dataâ€“Knowledgeâ€Dualâ€Driven Electrolyte Design for Fastâ€Charging Lithium Ion Batteries. Angewandte Chemie, 2025, 137, .	1.4	7
25	Thermoresponsive solid electrolyte interphase enables safe lithiumâ€“sulfur batteries with high energy density. Energy and Environmental Science, 2025, 18, 4925-4933.	30.8	44
26	Two-Stage Solvation of Lithium Polysulfides in Working Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2025, 147, 15435-15447.	15.0	71
27	Decoupling Lithium Reutilization Behavior under Different Discharge Rates for Anodeâ€Free Lithium Metal Batteries. Advanced Materials, 2025, 37, .	24.5	3
28	Outside Back Cover: Dataâ€“Knowledgeâ€Dualâ€Driven Electrolyte Design for Fastâ€Charging Lithium Ion Batteries (Angew. Chem. 24/2025). Angewandte Chemie, 2025, 137, .	1.4	0
29	Improving the uniformity of lithium deposition via ionic liquid additives for long-cycling lithiumâ€“sulfur batteries. Chinese Chemical Letters, 2025, 37, 111330.	7.5	4
30	Sufficient cathode infiltration for stable 500 Wh kgâˆ'1 level lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2025, 109, 129-137.	14.2	28
31	Promoting the Rate Performances of Weakly Solvating Electrolyteâ€Based Lithiumâ€'Sulfur Batteries. Angewandte Chemie - International Edition, 2025, 64, .	14.4	24
32	Promoting the Rate Performances of Weakly Solvating Electrolyteâ€Based Lithiumâ€'Sulfur Batteries. Angewandte Chemie, 2025, 137, .	1.4	6
33	Construction of hydrophobic cavity surface of calix[4]arene for efficient extraction of endocrine disrupting chemicals in food. Chemical Engineering Journal, 2025, 518, 164858.	12.0	5
34	Research progress of structures and properties of lithium polysulfides in lithiumâ€“sulfur batteries. Chinese Science Bulletin, 2025, 71, 146-162.	0.7	0
35	Highly synergistic electrocatalysis and confinement of covalently bonded heterostructures enable high-efficient-stable Liâˆ'S batteries. Energy Storage Materials, 2025, 81, 104477.	18.1	2
36	Accelerating the sulfur redox kinetics in weakly-solvating lithiumâ€'sulfur batteries under lean-electrolyte conditions. Energy Storage Materials, 2025, 83, 104502.	18.1	10

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37	Anion-mediated electrolyte engineering unlocks high-energy-density and long-cycling sulfur-based batteries at ultra-low N/P ratio. Science Bulletin, 2025, 71, 125-136.	9.5	2
38	Perspective on powder technology for all-solid-state batteries: How to pair sulfide electrolyte with high-voltage cathode. Particuology, 2024, 86, 55-66.	5.3	53
39	High-performance localized high-concentration electrolytes by diluent design for long-cycling lithium metal batteries. Chinese Chemical Letters, 2024, 35, 108570.	7.5	25
40	A Dynamically Stable Mixed Conducting Interphase for Allâ€Solidâ€State Lithium Metal Batteries. Advanced Materials, 2024, 36, .	24.5	97
41	Re-evaluating the nano-sized inorganic protective layer on Cu current collector for anode free lithium metal batteries. Chinese Chemical Letters, 2024, 35, 109284.	7.5	4
42	From Liquid to Solidâ€State Batteries: Liâ€Rich Mnâ€Based Layered Oxides as Emerging Cathodes with High Energy Density. Advanced Materials, 2024, 36, .	24.5	95
43	Safer solidâ€state lithium metal batteries: Mechanisms and strategies. InformaÄnÃ-MateriÃ¡ly, 2024, 6, .	20.8	118
44	Temperatureâ€Mediated Dynamic Lithium Loss and its Implications for Highâ€Efficiency Lithium Metal Anodes. Advanced Energy Materials, 2024, 14, .	22.5	20
45	Improving Rate Performance of Encapsulating Lithiumâ€Polysulfide Electrolytes for Practical Lithiumâ^'Sulfur Batteries. Angewandte Chemie, 2024, 136, .	1.4	16
46	Improving Rate Performance of Encapsulating Lithiumâ€Polysulfide Electrolytes for Practical Lithiumâ^'Sulfur Batteries. Angewandte Chemie - International Edition, 2024, 63, .	14.4	73
47	High Energy Density Solidâ€State Lithium Metal Batteries Enabled by In Situ Polymerized Integrated Ultrathin Solid Electrolyte/Cathode. Advanced Functional Materials, 2024, 34, .	17.0	60
48	Preparation of graphene oxide/polyiminodiacetic acid resin as a high-performance adsorbent for Cu(II). Journal of Central South University, 2024, 30, 3881-3896.	3.8	16
49	Bipolar Current Collectors of Cu/polymer/Al Composite for Anodeâ€Free Batteries. Advanced Functional Materials, 2024, 34, .	17.0	25
50	Structural Vulnerability Control by Encapsulation Strategy toward Durable Lithium Metal Reference Electrodes. Advanced Energy Materials, 2024, 14, .	22.5	10
51	Generic synthesis of high-entropy phosphides for fast and stable Li-ion storage. Energy and Environmental Science, 2024, 17, 5387-5398.	30.8	36
52	Core-shell engineering of titanium-based anodes toward enhanced electrochemical lithium/sodium storage performance: a review. Materials Today Energy, 2024, 43, 101589.	5.1	6
53	Kinetic Evaluation on Lithium Polysulfide in Weakly Solvating Electrolyte toward Practical Lithiumâ€"Sulfur Batteries. Journal of the American Chemical Society, 2024, 146, 14754-14764.	15.0	150
54	The principle and amelioration of lithium plating in fast-charging lithium-ion batteries. Journal of Energy Chemistry, 2024, 97, 453-459.	14.2	30

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55	Understanding the transport mechanism of lithium ions in solid-electrolyte interphase in lithium metal batteries with liquid electrolytes. Materials Today, 2024, 77, 39-65.	14.0	93
56	Intrinsically Safe Lithium Metal Batteries Enabled by Thermoâ€Electrochemical Compatible In Situ Polymerized Solidâ€State Electrolytes. Advanced Materials, 2024, 36, .	24.5	94
57	Revisiting the Electrochemical Impedance Spectroscopy of Porous Electrodes in Liâ€ion Batteries by Employing Reference Electrode. Angewandte Chemie - International Edition, 2024, 63, .	14.4	48
58	Revisiting the Electrochemical Impedance Spectroscopy of Porous Electrodes in Liâ€ion Batteries by Employing Reference Electrode. Angewandte Chemie, 2024, 136, .	1.4	11
59	Electrocatalysts work better in lean-electrolyte lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2024, 12, 21845-21852.	9.3	20
60	Evolution of Lithium Metal Anode Along Cycling in Working Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2024, 14, .	22.5	20
61	Suppressing Li voids in all-solid-state lithium metal batteries through Li diffusion regulation. Joule, 2024, 8, 2794-2810.	25.7	68
62	Unveiling the Reaction Mystery Between Lithium Polysulfides and Lithium Metal Anode in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2024, 36, .	24.5	114
63	The effects of acoustic disturbances and mechanical vibration on laminar premixed flames: A comparative study. Applied Energy, 2024, 376, 124228.	10.5	5
64	Solvation Regulation Reinforces Anionâ€Derived Inorganicâ€Rich Interphase for Highâ€Performance Quasiâ€Solidâ€State Li Metal Batteries. Advanced Materials, 2024, 36, .	24.5	76
65	Phase equilibrium thermodynamics of lithiumâ€“sulfur batteries. Nature Chemical Engineering, 2024, 1, 588-596.	0.0	100
66	The future of carbon anodes for lithium-ion batteries: The rational regulation of graphite interphase. Carbon future, 2024, 1, 9200017.	0.0	47
67	Synchronously Consolidating Li, Se, S, and C for Robust Liâ€“SeS Batteries. Nano Letters, 2024, 24, 12027-12035.	8.7	10
68	Interpretable Learning of Accelerated Aging in Lithium Metal Batteries. Journal of the American Chemical Society, 2024, 146, 33012-33021.	15.0	29
69	Nobleâ€Metalâ€Free Oxygen Evolution Reaction Electrocatalysts Working at High Current Densities over 1000â€‰mAâ€‰cmâ^'2: From Fundamental Understanding to Design Principles. Energy and Environmental Materials, 2023, 6, .	13.9	49
70	Recent Advances in Carbonâ€Based Current Collectors/Hosts for Alkali Metal Anodes. Energy and Environmental Materials, 2023, 6, .	13.9	35
71	Review on lithium metal anodes towards high energy density batteries. Green Energy and Environment, 2023, 8, 1509-1530.	12.4	107
72	Composing atomic transition metal sites for high-performance bifunctional oxygen electrocatalysis in rechargeable zincâ€“air batteries. Particuology, 2023, 77, 146-152.	5.3	39

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73	Taming Solventâ€"Solute Interaction Accelerates Interfacial Kinetics in Lowâ€Temperature Lithiumâ€Metal Batteries. Advanced Materials, 2023, 35, .	24.5	224
74	An interface-contact regulation renders thermally safe lithium metal batteries. ETransportation, 2023, 15, 100211.	16.2	12
75	Constructing a 700 Wh kgâ1-level rechargeable lithium-sulfur pouch cell. Journal of Energy Chemistry, 2023, 76, 181-186.	14.2	150
76	Highly soluble organic nitrate additives for practical lithium metal batteries. , 2023, 5, .		75
77	Dilute Alloying to Implant Activation Centers in Nitride Electrocatalysts for Lithiumâ€"Sulfur Batteries. Advanced Materials, 2023, 35, .	24.5	116
78	Mechanism, quantitative characterization, and inhibition of corrosion in lithium batteries. Nano Research Energy, 2023, 2, e9120046.	19.6	88
79	Higher-order polysulfides induced thermal runaway for 1.0 Ah lithium sulfur pouch cells. Particuology, 2023, 79, 10-17.	5.3	56
80	Protecting lithium metal anodes in lithiumâ€"sulfur batteries: A review. Energy Material Advances, 2023, 4, .	13.3	180
81	Thermoresponsive Electrolytes for Safe Lithiumâ€Metal Batteries. Advanced Materials, 2023, 35, .	24.5	115
82	High-areal-capacity anode-free all-solid-state lithium batteries enabled by interconnected carbon-reinforced ionic-electronic composites. Journal of Materials Chemistry A, 2023, 11, 12713-12718.	9.3	39
83	Pressure-induced growth of coralloid-like FeF2 nanocrystals to enable high-performance conversion cathode. Journal of Energy Chemistry, 2023, 79, 291-300.	14.2	19
84	Paradigm metallothermic-sulfidation-carbonization constructing ZIFs-derived TMSs@Graphene/CNx heterostructures for high-capacity and long-life energy storage. Nano Energy, 2023, 111, 108401.	16.2	25
85	Biotemplated Fabrication of ZnO Microstructures with Enhanced Photocatalytic Properties from Rape Pollen. Crystallography Reports, 2023, 67, 1231-1238.	0.7	2
86	Recycling inactive lithium in lithiumâ€"sulfur batteries using organic polysulfide redox. Journal of Materials Chemistry A, 2023, 11, 7441-7446.	9.3	26
87	Achieving high-energy and high-safety lithium metal batteries with high-voltage-stable solid electrolytes. Matter, 2023, 6, 1096-1124.	16.0	139
88	Unlocking the Polarization and Reversibility Limitations for Stable Lowâ€Temperature Lithium Metal Anodes. Small Structures, 2023, 4, .	11.0	57
89	Premature deposition of lithium polysulfide in lithium-sulfur batteries. Journal of Energy Chemistry, 2023, 82, 507-512.	14.2	55
90	A Robust Triboelectric Nanogenerator Resistant to Humidity and Temperature in Ambient Environment. Physica Status Solidi - Rapid Research Letters, 2023, 17, .	2.0	14

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91	Dynamic Galvanic Corrosion of Working Lithium Metal Anode Under Practical Conditions. Advanced Energy Materials, 2023, 13, .	22.5	35
92	Lithium (Poly)sulfide Phase Conversion in Working Lithiumâ€"Sulfur Batteries: The Insight from the Equilibrium Potential Model. ACS Energy Letters, 2023, 8, 2674-2681.	17.0	25
93	Fluorinating solid electrolyte interphase by regulating polymerâ€"solvent interaction in lithium metal batteries. Energy Storage Materials, 2023, 60, 102799.	18.1	27
94	An Organodiselenide Comediator to Facilitate Sulfur Redox Kinetics in Lithiumâ€"Sulfur Batteries with Encapsulating Lithium Polysulfide Electrolyte. Angewandte Chemie - International Edition, 2023, 62, .	14.4	87
95	An Organodiselenide Comediator to Facilitate Sulfur Redox Kinetics in Lithiumâ€"Sulfur Batteries with Encapsulating Lithium Polysulfide Electrolyte. Angewandte Chemie, 2023, 135, .	1.4	12
96	Homogeneous and mechanically stable solidâ€"electrolyte interphase enabled by trioxane-modulated electrolytes for lithium metal batteries. Nature Energy, 2023, 8, 725-735.	50.7	565
97	The Regulation of Lithium Plating Behavior by State of Stripping in Working Lithium Metal Anode. Advanced Energy Materials, 2023, 13, .	22.5	16
98	Electrolyte Design for Improving Mechanical Stability of Solid Electrolyte Interphase in Lithiumâ€"Sulfur Batteries. Angewandte Chemie, 2023, 135, .	1.4	4
99	Electrolyte Design for Improving Mechanical Stability of Solid Electrolyte Interphase in Lithiumâ€"Sulfur Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	110
100	Defectâ€Healing Induced Monoclinic Ironâ€Based Prussian Blue Analogs as Highâ€Performance Cathode Materials for Sodiumâ€Ion Batteries. Small, 2023, 19, .	11.5	72
101	Cathode Kinetics Evaluation in Lean-Electrolyte Lithiumâ€"Sulfur Batteries. Journal of the American Chemical Society, 2023, 145, 16449-16457.	15.0	238
102	In Situ Liâ€Plating Diagnosis for Fastâ€Charging Liâ€Ion Batteries Enabled by Relaxationâ€Time Detection. Advanced Materials, 2023, 35, .	24.5	36
103	Reforming the Uniformity of Solid Electrolyte Interphase by Nanoscale Structure Regulation for Stable Lithium Metal Batteries. Angewandte Chemie - International Edition, 2023, 62, .	14.4	95
104	Reforming the Uniformity of Solid Electrolyte Interphase by Nanoscale Structure Regulation for Stable Lithium Metal Batteries. Angewandte Chemie, 2023, 135, .	1.4	10
105	Regulating the electrolyte solvation structure by weakening the solvating power of solvents for stable lithium metal batteries. Science China Chemistry, 2023, 66, 3620-3627.	8.3	58
106	Deciphering the Degradation Mechanism of Highâ€Rate and Highâ€Energyâ€Density Lithiumâ€"Sulfur Pouch Cells. Advanced Energy Materials, 2023, 13, .	22.5	40
107	Advances in carbon-based composite anodes with gradients of lithiophilicity and conductivity used for stable lithium metal batteries. New Carbon Materials, 2023, 38, 623-637.	6.0	16
108	Decoupling pressure effects in plating and stripping of lithium metal anodes. Journal of Energy Storage, 2023, 74, 109422.	8.7	10

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109	Advances in carbon-based composite anodes with gradients of lithiophilicity and conductivity used for stable lithium metal batteries. Carbon, 2023, 215, 118403.	10.7	0
110	Unlocking the Failure Mechanism of Solid State Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, .	22.5	238
111	Polar interaction of polymer hostâ€"solvent enables stable solid electrolyte interphase in composite lithium metal anodes. Journal of Energy Chemistry, 2022, 64, 172-178.	14.2	77
112	Evaluation on a 400ÂWhÂkgâˆ'1 lithiumâ€"sulfur pouch cell. Journal of Energy Chemistry, 2022, 66, 24-29.	14.2	92
113	In-situ determination of onset lithium plating for safe Li-ion batteries. Journal of Energy Chemistry, 2022, 67, 255-262.	14.2	62
114	Anode Material Options Toward 500 Wh kgâˆ'1 Lithiumâ€"Sulfur Batteries. Advanced Science, 2022, 9, .	12.6	121
115	Recent advances in anion-derived SEIs for fast-charging and stable lithium batteries. , 2022, 1, 100013.		54
116	High-valence sulfur-containing species in solid electrolyte interphase stabilizes lithium metal anodes in lithiumâ€"sulfur batteries. Journal of Energy Chemistry, 2022, 68, 300-305.	14.2	70
117	A generalizable, data-driven online approach to forecast capacity degradation trajectory of lithium batteries. Journal of Energy Chemistry, 2022, 68, 548-555.	14.2	112
118	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie, 2022, 134, .	1.4	18
119	An encapsulating lithium-polysulfide electrolyte for practical lithiumâ€"sulfur batteries. CheM, 2022, 8, 1083-1098.	16.6	167
120	Multiscale understanding of high-energy cathodes in solid-state batteries: from atomic scale to macroscopic scale. Materials Futures, 2022, 1, 012101.	8.4	53
121	A high-energy efficiency static membrane-free zincâ€"bromine battery enabled by a high concentration hybrid electrolyte. Sustainable Energy and Fuels, 2022, 6, 1148-1155.	3.9	37
122	Reversible Transformation of a Zinc Salt-Boosted High Areal Capacity Manganese Dioxide Cathode for Energy-Dense and Stable Aqueous Zinc Batteries. ACS Applied Energy Materials, 2022, 5, 1478-1486.	5.4	18
123	Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.4	102
124	Frontispiz: Surface Gelation on Disulfide Electrocatalysts in Lithiumâ€"Sulfur Batteries. Angewandte Chemie, 2022, 134, .	1.4	1
125	A highly selective and sensitive â€œonâ€"offâ€• fluorescent probe for detecting cadmium ions and l-cysteine based on nitrogen and boron co-doped carbon quantum dots. RSC Advances, 2022, 12, 8202-8210.	4.4	41
126	Nanotube-based heterostructures for electrochemistry: A mini-review on lithium storage, hydrogen evolution and beyond. Journal of Energy Chemistry, 2022, 70, 630-642.	14.2	15

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128	Dry electrode technology, the rising star in solid-state battery industrialization. Matter, 2022, 5, 876-898.	16.0	320
129	Fullâ€Range Redox Mediation on Sulfur Redox Kinetics for Highâ€Performance Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.3	66
130	Surface Gelation on Disulfide Electrocatalysts in Lithiumâ€"Sulfur Batteries. Angewandte Chemie, 2022, 134, .	1.4	15
131	A Toolbox of Reference Electrodes for Lithium Batteries. Advanced Functional Materials, 2022, 32, .	17.0	71
132	Failure Mechanism of Lithiophilic Sites in Composite Lithium Metal Anode under Practical Conditions. Advanced Energy Materials, 2022, 12, .	22.5	90
133	Surface Gelation on Disulfide Electrocatalysts in Lithiumâ€"Sulfur Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.4	115
134	Dead lithium formation in lithium metal batteries: A phase field model. Journal of Energy Chemistry, 2022, 71, 29-35.	14.2	173
135	A perspective on energy chemistry of low-temperature lithium metal batteries. , 2022, 1, 72-81.		28
136	Toward Practical Highâ€Energyâ€Density Lithiumâ€"Sulfur Pouch Cells: A Review. Advanced Materials, 2022, 34, .	24.5	234
137	Dry electrode technology for scalable and flexible high-energy sulfur cathodes in all-solid-state lithium-sulfur batteries. Journal of Energy Chemistry, 2022, 71, 612-618.	14.2	124
138	Regulating Solvation Structure in Nonflammable Amideâ€Based Electrolytes for Longâ€Cycling and Safe Lithium Metal Batteries. Advanced Energy Materials, 2022, 12, .	22.5	112
139	Thermal safety of dendritic lithium against non-aqueous electrolyte in pouch-type lithium metal batteries. Journal of Energy Chemistry, 2022, 72, 158-165.	14.2	115
140	Fluorinating the Solid Electrolyte Interphase by Rational Molecular Design for Practical Lithiumâ€Metal Batteries. Angewandte Chemie, 2022, 134, .	1.4	26
141	Fluorinating the Solid Electrolyte Interphase by Rational Molecular Design for Practical Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.4	123
142	Anodeâ€Free Solidâ€State Lithium Batteries: A Review. Advanced Energy Materials, 2022, 12, .	22.5	236
143	Driving lithium to deposit inside structured lithium metal anodes: A phase field model. Journal of Energy Chemistry, 2022, 73, 285-291.	14.2	37
144	Electrolyte inhomogeneity induced lithium plating in fast charging lithium-ion batteries. Journal of Energy Chemistry, 2022, 73, 394-399.	14.2	69

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145	Boosting sulfur redox kinetics by a pentacenetetrone redox mediator for high-energy-density lithium-sulfur batteries. Nano Research, 2022, 16, 8253-8259.	8.6	67
146	A Nafion protective layer for stabilizing lithium metal anodes in working lithiumâ€“sulfur batteries. Battery Energy, 2022, 1, .	10.3	53
147	Emerging Graphene Derivatives and Analogues for Efficient Energy Electrocatalysis. Advanced Functional Materials, 2022, 32, .	17.0	48
148	An ultralight electroconductive metal-organic framework membrane for multistep catalytic conversion and molecular sieving in lithium-sulfur batteries. Energy Storage Materials, 2022, 51, 882-889.	18.1	56
149	Regulating Lithium Salt to Inhibit Surface Gelation on an Electrocatalyst for High-Energy-Density Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2022, 144, 14638-14646.	15.0	180
150	Regulating the Twoâ€Stage Accumulation Mechanism of Inactive Lithium for Practical Composite Lithium Metal Anodes. Advanced Functional Materials, 2022, 32, .	17.0	35
151	Quantifying the apparent electron transfer number of electrolyte decomposition reactions in anode-free batteries. Joule, 2022, 6, 2122-2137.	25.7	78
152	Failure analysis of high-energy-density lithiumâ€'sulfur pouch cells. Energy Storage Materials, 2022, 53, 315-321.	18.1	61
153	Operando Quantified Lithium Plating Determination Enabled by Dynamic Capacitance Measurement in Working Liâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	14.4	72
154	Cationic lithium polysulfides in lithiumâ€“sulfur batteries. CheM, 2022, 8, 3031-3050.	16.6	143
155	Operando Quantified Lithium Plating Determination Enabled by Dynamic Capacitance Measurement in Working Liâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.4	4
156	Strategies for Designing High-Performance Hydrogen Evolution Reaction Electrocatalysts at Large Current Densities above 1000 mA cmâ€“2. ACS Nano, 2022, 16, 11577-11597.	15.3	259
157	Inhibiting intercrystalline reactions of anode with electrolytes for long-cycling lithium batteries. Science Advances, 2022, 8, .	10.9	109
158	Untangling Degradation Chemistries of Lithiumâ€Sulfur Batteries Through Interpretable Hybrid Machine Learning. Angewandte Chemie - International Edition, 2022, 61, .	14.4	50
159	Untangling Degradation Chemistries of Lithiumâ€Sulfur Batteries Through Interpretable Hybrid Machine Learning. Angewandte Chemie, 2022, 134, .	1.4	17
160	Thermally Stable Polymerâ€Rich Solid Electrolyte Interphase for Safe Lithium Metal Pouch Cells. Angewandte Chemie - International Edition, 2022, 61, .	14.4	122
161	Thermally Stable Polymerâ€Rich Solid Electrolyte Interphase for Safe Lithium Metal Pouch Cells. Angewandte Chemie, 2022, 134, .	1.4	8
162	Dual-atom catalysts for oxygen electrocatalysis. Nano Energy, 2022, 104, 107927.	16.2	174

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