Jun Lu

List of Publications by Year
in descending order

598 papers	75,041 citations	264 146 h-index	904 248 g-index
623 all docs	623 docs citations	623 times ranked	48840 citing authors

#	Article	IF	Citations
1	Atomistic Insights of Irreversible Li⁺ Intercalation in MnO₂ Electrode. Angewandte Chemie, 2022, 134, e202113420.	1.6	3
2	Atomistic Insights of Irreversible Li⁺ Intercalation in MnO₂ Electrode. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
3	Hydrogenâ€Bonding Reinforced Flexible Composite Electrodes for Enhanced Energy Storage. Advanced Functional Materials, 2022, 32, 2108003.	7.8	10
4	Catalytic materials for lithium-sulfur batteries: mechanisms, design strategies and future perspective. Materials Today, 2022, 52, 364-388.	8.3	78
5	Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Naâ€O₂ Battery Performance. Advanced Energy Materials, 2022, 12, .	10.2	13
6	High Nickel and No Cobaltâ"€The Pursuit of Next-Generation Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 23056-23065.	4.0	30
7	Ferric sauce for potassium-ion battery. Nature Sustainability, 2022, 5, 183-184.	11.5	2
8	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. ACS Energy Letters, 2022, 7, 577-582.	8.8	7
9	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. Science Advances, 2022, 8, eabm1899.	4.7	26
10	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrodeâ€Electrolyte Interphase in Nonâ€Aqueous Naâ€Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	1.9	27
11	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fastâ€Charging Zn Battery Chemistry. Angewandte Chemie, 2022, 134, .	1.6	13
12	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fastâ€Charging Zn Battery Chemistry. Angewandte Chemie - International Edition, 2022, 61, .	7.2	82
13	Decoupling mass transport and electron transfer by a double-cathode structure of a Li-O2 battery with high cyclic stability. Joule, 2022, 6, 381-398.	11.7	36
14	Energy Spotlight. ACS Energy Letters, 2022, 7, 1125-1127.	8.8	0
15	An Ultrafast, Durable, and Highâ€Loading Polymer Anode for Aqueous Zincâ€Ion Batteries and Supercapacitors. Advanced Materials, 2022, 34, e2200077.	11.1	60
16	On the Road to Sustainable Energy Storage Technologies: Synthesis of Anodes for Na-Ion Batteries from Biowaste. Batteries, 2022, 8, 28.	2.1	8
17	Transferring Liquid Metal to form a Hybrid Solid Electrolyte via a Wettabilityâ€Tuning Technology for Lithiumâ€Metal Anodes. Advanced Materials, 2022, 34, e2200181.	11.1	28
18	Regulation of Surface Defect Chemistry toward Stable Niâ€Rich Cathodes. Advanced Materials, 2022, 34, e2200744.	11.1	41

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19	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes. Nano Letters, 2022, 22, 263-270.	4.5	31
20	Understanding the Role of Lithium Iodide in Lithiumâ€“Oxygen Batteries. Advanced Materials, 2022, 34, e2106148.	11.1	26
21	Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. Angewandte Chemie, 2022, 134, .	1.6	4
22	Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. Angewandte Chemie - International Edition, 2022, 61, .	7.2	31
23	Enabling high energy lithium metal batteries via single-crystal Ni-rich cathode material co-doping strategy. Nature Communications, 2022, 13, 2319.	5.8	143
24	Theory-guided experimental design in battery materials research. Science Advances, 2022, 8, eabm2422.	4.7	52
25	Unravelling the Nature of the Intrinsic Complex Structure of Binaryâ€Phase Naâ€Layered Oxides. Advanced Materials, 2022, 34, e2202137.	11.1	21
26	InnenrÃ¼cktitelbild: Impacts of Dissolved Ni²⁺ on the Solid Electrolyte Interphase on a Graphite Anode (Angew. Chem. 30/2022). Angewandte Chemie, 2022, 134, .	1.6	0
27	Singleâ€Layerâ€Particle Electrode Design for Practical Fastâ€Charging Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, .	11.1	33
28	Cation-doped ZnS catalysts for polysulfide conversion in lithiumâ€“sulfur batteries. Nature Catalysis, 2022, 5, 555-563.	16.1	198
29	Origin of structural degradation in Li-rich layered oxide cathode. Nature, 2022, 606, 305-312.	13.7	206
30	Burning magnesium in carbon dioxide for highly effective phosphate removal. , 2021, 3, 330-337.		4
31	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zincâ€Ion Batteries. Batteries and Supercaps, 2021, 4, 60-71.	2.4	32
32	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. Small Structures, 2021, 2, 2000091.	6.9	18
33	In Situ Construction of Uniform and Robust Cathodeâ€“Electrolyte Interphase for Liâ€Rich Layered Oxides. Advanced Functional Materials, 2021, 31, 2009192.	7.8	81
34	Counterâ€Intuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. Advanced Energy Materials, 2021, 11, 2003256.	10.2	35
35	Biphasic P2/O3-Na_{2/3}Li_{0.18}Mn_{0.8}Fe_{0.2}O₂: a structural investigation. Dalton Transactions, 2021, 50, 1357-1365.	1.6	9
36	Visualizing Lithium Dendrite Formation within Solid-State Electrolytes. ACS Energy Letters, 2021, 6, 451-458.	8.8	77

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37	<i>In Situ</i> Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. Journal of the American Chemical Society, 2021, 143, 2185-2189.	6.6	31
38	Atomic/molecular layer deposition for energy storage and conversion. Chemical Society Reviews, 2021, 50, 3889-3956.	18.7	109
39	1000 Wh Lâˆ'1 lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. National Science Review, 2021, 8, nwab012.	4.6	60
40	Enabling stable and high-rate cycling of a Ni-rich layered oxide cathode for lithium-ion batteries by modification with an artificial Li⁺-conducting cathode-electrolyte interphase. Journal of Materials Chemistry A, 2021, 9, 11623-11631.	5.2	33
41	Intelligence-assisted predesign for the sustainable recycling of lithium-ion batteries and beyond. Energy and Environmental Science, 2021, 14, 5801-5815.	15.6	59
42	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. Nature Energy, 2021, 6, 277-286.	19.8	255
43	Correlating Catalyst Design and Discharged Product to Reduce Overpotential in Liâ€CO₂ Batteries. Small, 2021, 17, e2007760.	5.2	22
44	Improved Sodiation Additive and Its Nuances in the Performance Enhancement of Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11814-11821.	4.0	15
45	Rejuvenating dead lithium supply in lithium metal anodes by iodine redox. Nature Energy, 2021, 6, 378-387.	19.8	282
46	Wholeâ€Voltageâ€Range Oxygen Redox in P2â€Layered Cathode Materials for Sodiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2008194.	11.1	108
47	Process Engineering to Increase the Layered Phase Concentration in the Immediate Products of Flame Spray Pyrolysis. ACS Applied Materials & Interfaces, 2021, 13, 26915-26923.	4.0	11
48	Designing inorganic electrolytes for solid-state Li-ion batteries: A perspective of LGPS and garnet. Materials Today, 2021, 50, 418-441.	8.3	59
49	A universal method to fabricating porous carbon for Li-O2 battery. Nano Energy, 2021, 82, 105782.	8.2	42
50	Challenges and future perspectives on sodium and potassium ion batteries for grid-scale energy storage. Materials Today, 2021, 50, 400-417.	8.3	161
51	Understanding the Effect of Solid Electrocatalysts on Achieving Highly Energyâ€Efficient Lithiumâ€"Oxygen Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100045.	2.8	2
52	Nanotechnology for Sulfur Cathodes. ACS Nano, 2021, 15, 8087-8094.	7.3	29
53	Mesocrystallizing Nanograins for Enhanced Li + Storage. Advanced Energy Materials, 2021, 11, 2100503.	10.2	5
54	Chemical Heterointerface Engineering on Hybrid Electrode Materials for Electrochemical Energy Storage. Small Methods, 2021, 5, e2100444.	4.6	62

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55	Flexible metalâ€“air batteries: An overview. SmartMat, 2021, 2, 123-126.	6.4	39
56	Structural Aspects of P2â€Type Na_{0.67}Mn_{0.6}Ni_{0.2}Li_{0.2}O₂ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2102939.	7.8	35
57	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. ACS Catalysis, 2021, 11, 8837-8846.	5.5	110
58	Nanostructured Carbon Composites from Cigarette Filter Wastes and Graphene Oxide Suitable as Electrodes for 3.4â€…V Supercapacitors. Batteries and Supercaps, 2021, 4, 1749-1756.	2.4	9
59	Energy Spotlight. ACS Energy Letters, 2021, 6, 2983-2984.	8.8	0
60	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. Nature Communications, 2021, 12, 5746.	5.8	89
61	Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. Nature Communications, 2021, 12, 5370.	5.8	44
62	Wood Carbon Based Single-Atom Catalyst for Rechargeable Znâ€“Air Batteries. ACS Energy Letters, 2021, 6, 3624-3633.	8.8	103
63	Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. Nature Communications, 2021, 12, 5661.	5.8	17
64	(S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. Materials Chemistry Frontiers, 2021, 5, 5186-5193.	3.2	20
65	Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMCâ€“Silicon Full Cell. ACS Energy Letters, 2021, 6, 320-328.	8.8	50
66	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. Nature Communications, 2021, 12, 6024.	5.8	80
67	Outside Back Cover: Volume 2 Issue 4. SmartMat, 2021, 2, .	6.4	0
68	Exploring new battery knowledge by advanced characterizing technologies. Exploration, 2021, 1, .	5.4	25
69	Recent progress and future perspectives of flexible metalâ€air batteries. SmartMat, 2021, 2, 519-553.	6.4	43
70	Lithiophilic 3D Porous CuZn Current Collector for Stable Lithium Metal Batteries. ACS Energy Letters, 2020, 5, 180-186.	8.8	159
71	Relating Catalysis between Fuel Cell and Metal-Air Batteries. Matter, 2020, 2, 32-49.	5.0	112
72	The importance of anode protection towards lithium oxygen batteries. Journal of Materials Chemistry A, 2020, 8, 3563-3573.	5.2	65

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73	Precision AABB-type cyclocopolymers <i>via</i> alternating cyclocopolymerization of disiloxane-tethered divinyl monomers. Polymer Chemistry, 2020, 11, 1171-1176.	1.9	4
74	An Overview of Engineered Grapheneâ€Based Cathodes: Boosting Oxygen Reduction and Evolution Reactions in Lithiumâ€" and Sodiumâ€"Oxygen Batteries. ChemSusChem, 2020, 13, 1203-1225.	3.6	19
75	Iron-Doped Sodiumâ€"Vanadium Fluorophosphates: Na₃V_{2â€"<i>y</i>}O_{2â€"<i>y</i>}Fe_{<i>y</i>}(PO₄)₂F<sub (<i>y</i> < 0.3). Inorganic Chemistry, 2020, 59, 854-862.	1.9	18
76	A Triphasic Bifunctional Oxygen Electrocatalyst with Tunable and Synergetic Interfacial Structure for Rechargeable Znâ€Air Batteries. Advanced Energy Materials, 2020, 10, 1903003.	10.2	74
77	Crystalâ€Growthâ€Dominated Fabrication of Metalâ€"Organic Frameworks with Orderly Distributed Hierarchical Porosity. Angewandte Chemie, 2020, 132, 2478-2485.	1.6	5
78	Crystalâ€Growthâ€Dominated Fabrication of Metalâ€"Organic Frameworks with Orderly Distributed Hierarchical Porosity. Angewandte Chemie - International Edition, 2020, 59, 2457-2464.	7.2	53
79	Reversible (De)Intercalation of Hydrated Zn²⁺ in Mg²⁺â€Stabilized V₂O₅ Nanobelts with High Areal Capacity. Advanced Energy Materials, 2020, 10, 2002293.	10.2	84
80	Polycation ionic liquid tailored PEO-based solid polymer electrolytes for high temperature lithium metal batteries. Energy Storage Materials, 2020, 33, 173-180.	9.5	78
81	Functionalized separator for next-generation batteries. Materials Today, 2020, 41, 143-155.	8.3	87
82	Fe₂P-decorated N,P Codoped Carbon Synthesized via Direct Biological Recycling for Endurable Sulfur Encapsulation. ACS Central Science, 2020, 6, 1827-1834.	5.3	27
83	Energy Spotlight. ACS Energy Letters, 2020, 5, 3265-3267.	8.8	0
84	Naâ€Ion Batteriesâ€"Approaching Old and New Challenges. Advanced Energy Materials, 2020, 10, 2002055.	10.2	229
85	Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€"Oxygen Batteries. Angewandte Chemie - International Edition, 2020, 59, 22978-22982.	7.2	29
86	Revitalising sodiumâ€"sulfur batteries for non-high-temperature operation: a crucial review. Energy and Environmental Science, 2020, 13, 3848-3879.	15.6	172
87	Lithium Metal Anodes: A Lithium Metal Anode Surviving Battery Cycling Above 200 Â°C (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	11.1	2
88	Hydrous Nickelâ€"Iron Turnbullâ€™s Blue as a High-Rate and Low-Temperature Proton Electrode. ACS Applied Materials & Interfaces, 2020, 12, 9201-9208.	4.0	49
89	Bipolar Electrodes for Nextâ€Generation Rechargeable Batteries. Advanced Science, 2020, 7, 2001207.	5.6	41
90	Fluorinated co-solvent promises Li-S batteries under lean-electrolyte conditions. Materials Today, 2020, 40, 63-71.	8.3	61

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91	Tailoring conductive networks within hollow carbon nanospheres to host phosphorus for advanced sodium ion batteries. Nano Energy, 2020, 70, 104569.	8.2	29
92	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. Chemical Society Reviews, 2020, 49, 5407-5445.	18.7	264
93	Unraveling the Nature of Excellent Potassium Storage in Smallâ€Molecule Se@Peapodâ€Like Nâ€Doped Carbon Nanofibers. Advanced Materials, 2020, 32, e2003879.	11.1	104
94	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. Joule, 2020, 4, 2609-2626.	11.7	260
95	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. Science Advances, 2020, 6, .	4.7	61
96	Analysis of the Stable Interphase Responsible for the Excellent Electrochemical Performance of Graphite Electrodes in Sodiumâ€Ion Batteries. Small, 2020, 16, e2003268.	5.2	75
97	TEM Studies on the Role of Local Chemistry and Atomic Structure in Battery Materials. Microscopy and Microanalysis, 2020, 26, 148-149.	0.2	1
98	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. Journal of the American Chemical Society, 2020, 142, 14966-14973.	6.6	79
99	Zincâ€Air Batteries: An Ironâ€Decorated Carbon Aerogel for Rechargeable Flow and Flexible Znâ€"Air Batteries (Adv. Mater. 32/2020). Advanced Materials, 2020, 32, 2070241.	11.1	1
100	Rooting MnO2 into protonated g-C3N4 by intermolecular hydrogen bonding for endurable supercapacitance. Nano Energy, 2020, 77, 105153.	8.2	39
101	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copperâ€"molecular solid catalyst. Nature Energy, 2020, 5, 605-613.	19.8	722
102	A Nonâ€aqueous H₃PO₄ Electrolyte Enables Stable Cycling of Proton Electrodes. Angewandte Chemie - International Edition, 2020, 59, 22007-22011.	7.2	35
103	A disordered rock salt anode for fast-charging lithium-ion batteries. Nature, 2020, 585, 63-67.	13.7	326
104	Singlet oxygen formation in Na O2 battery cathodes catalyzed by ammonium BrÃ¶nsted acid. Journal of Electroanalytical Chemistry, 2020, 872, 114265.	1.9	12
105	A Nonâ€aqueous H 3 PO 4 Electrolyte Enables Stable Cycling of Proton Electrodes. Angewandte Chemie, 2020, 132, 22191-22195.	1.6	13
106	Interfaces in rechargeable magnesium batteries. Nanoscale Horizons, 2020, 5, 1467-1475.	4.1	23
107	A Coâ€and Niâ€Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodiumâ€Ion Batteries and its Cycling Behavior. Advanced Functional Materials, 2020, 30, 2003364.	7.8	80
108	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	5.8	65

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109	Titelbild: Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€"Oxygen Batteries (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /O	1.6	0
110	Beyond Volume Variation: Anisotropic and Protrusive Lithiation in Bismuth Nanowire. ACS Nano, 2020, 14, 15669-15677.	7.3	18
111	Fiber-Shaped Fluidic Nanogenerator with High Power Density for Self-Powered Integrated Electronics. Cell Reports Physical Science, 2020, 1, 100175.	2.8	9
112	Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€"Oxygen Batteries. Angewandte Chemie, 2020, 132, 23178-23182.	1.6	8
113	From Sodiumâ€"Oxygen to Sodiumâ€"Air Battery: Enabled by Sodium Peroxide Dihydrate. Nano Letters, 2020, 20, 4681-4686.	4.5	31
114	Theoretical Simulation and Modeling of Three-Dimensional Batteries. Cell Reports Physical Science, 2020, 1, 100078.	2.8	34
115	A Lithium Metal Anode Surviving Battery Cycling Above 200 Â°C. Advanced Materials, 2020, 32, e2000952.	11.1	35
116	Energy Spotlight. ACS Energy Letters, 2020, 5, 1967-1969.	8.8	0
117	Rational Design of a Ni₃N_{0.85} Electrocatalyst to Accelerate Polysulfide Conversion in Lithiumâ€"Sulfur Batteries. ACS Nano, 2020, 14, 6673-6682.	7.3	212
118	Polyolefinâ€Based Janus Separator for Rechargeable Sodium Batteries. Angewandte Chemie, 2020, 132, 16868-16877.	1.6	5
119	Mesoporous PdAg Nanospheres for Stable Electrochemical CO₂ Reduction to Formate. Advanced Materials, 2020, 32, e2000992.	11.1	153
120	Potassiumâ€Ion Batteries: Surface Amorphization of Vanadium Dioxide (B) for Kâ€Ion Battery (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock	10.2	23
121	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. Nature Communications, 2020, 11, 3050.	5.8	225
122	Activating Li₂S as the Lithium-Containing Cathode in Lithiumâ€"Sulfur Batteries. ACS Energy Letters, 2020, 5, 2234-2245.	8.8	125
123	A Highâ€Rate Aqueous Proton Battery Delivering Power Below â^'78 Â°C via an Unfrozen Phosphoric Acid. Advanced Energy Materials, 2020, 10, 2000968.	10.2	134
124	Three-Dimensional Microbatteries beyond Lithium Ion. Matter, 2020, 2, 1366-1376.	5.0	84
125	Reviewâ€"Polymer Electrolytes for Sodium Batteries. Journal of the Electrochemical Society, 2020, 167, 070534.	1.3	86
126	Rooting binder-free tin nanoarrays into copper substrate via tin-copper alloying for robust energy storage. Nature Communications, 2020, 11, 1212.	5.8	64

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127	Toward Highly Selective Electrochemical CO₂ Reduction using Metalâ€Free Heteroatomâ€Doped Carbon. Advanced Science, 2020, 7, 2001002.	5.6	48
128	An Ironâ€Decorated Carbon Aerogel for Rechargeable Flow and Flexible Znâ€“Air Batteries. Advanced Materials, 2020, 32, e2002292.	11.1	213
129	Oxygen-Based Anion Redox for Lithium Batteries. Accounts of Chemical Research, 2020, 53, 1436-1444.	7.6	21
130	Consolidating Lithiothermicâ€Ready Transition Metals for Li₂Sâ€Based Cathodes. Advanced Materials, 2020, 32, e2002403.	11.1	59
131	Durian-Inspired Design of Bismuthâ€“Antimony Alloy Arrays for Robust Sodium Storage. ACS Nano, 2020, 14, 9117-9124.	7.3	71
132	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. Nature Reviews Materials, 2020, 5, 276-294.	23.3	284
133	Optimization of oxygen electrode combined with soluble catalyst to enhance the performance of lithiumâ€“oxygen battery. Energy Storage Materials, 2020, 28, 73-81.	9.5	12
134	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. ACS Applied Materials & Interfaces, 2020, 12, 16200-16208.	4.0	15
135	Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705.	18.7	152
136	Cobalt in lithium-ion batteries. Science, 2020, 367, 979-980.	6.0	280
137	Highâ€Performance, Longâ€Life, Rechargeable Liâ€“CO₂ Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. Advanced Materials, 2020, 32, e1907436.	11.1	133
138	ZnO Nanoparticles Photosensitization Using Ruthenium(II)â€polypyridyl Isomeric Complexes. ChemistrySelect, 2020, 5, 2528-2534.	0.7	1
139	Accommodation of Silicon in an Interconnected Copper Network for Robust Liâ€Ion Storage. Advanced Functional Materials, 2020, 30, 1910249.	7.8	46
140	Highly Homogeneous Sodium Superoxide Growth in Naâ€“O₂ Batteries Enabled by a Hybrid Electrolyte. ACS Energy Letters, 2020, 5, 903-909.	8.8	16
141	Energy Spotlight. ACS Energy Letters, 2020, 5, 938-939.	8.8	0
142	Strain-Modulated Platinumâ€“Palladium Nanowires for Oxygen Reduction Reaction. Nano Letters, 2020, 20, 2416-2422.	4.5	70
143	Fastâ€Charging and Ultrahighâ€Capacity Lithium Metal Anode Enabled by Surface Alloying. Advanced Energy Materials, 2020, 10, 1902343.	10.2	65
144	Energy Spotlight. ACS Energy Letters, 2020, 5, 1662-1664.	8.8	3

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145	Surface Amorphization of Vanadium Dioxide (B) for Kâ€Ion Battery. Advanced Energy Materials, 2020, 10, 2000717.	10.2	109
146	An Extremely Fast Charging Li₃V₂(PO₄)₃ Cathode at a 4.8 V Cutoff Voltage for Li-Ion Batteries. ACS Energy Letters, 2020, 5, 1763-1770.	8.8	69
147	Electrolytes and Interphases in Sodiumâ€Based Rechargeable Batteries: Recent Advances and Perspectives. Advanced Energy Materials, 2020, 10, 2000093.	10.2	254
148	Enhancing Oxygen Reduction Activity of Ptâ€based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. Angewandte Chemie, 2020, 132, 18490-18504.	1.6	24
149	Enhancing Oxygen Reduction Activity of Ptâ€based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. Angewandte Chemie - International Edition, 2020, 59, 18334-18348.	7.2	174
150	Designing a hybrid electrode toward high energy density with a staged Li ⁺ and PF ₆ ^{âˆ'} deintercalation/intercalation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2815-2823.	3.3	50
151	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. Nature Communications, 2020, 11, 2016.	5.8	195
152	Potassium Prussian blue-coated Li-rich cathode with enhanced lithium ion storage property. Nano Energy, 2020, 75, 104942.	8.2	40
153	New Concepts in Electrolytes. Chemical Reviews, 2020, 120, 6783-6819.	23.0	554
154	Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. Nature Communications, 2020, 11, 845.	5.8	92
155	Flexible metalâ€"gas batteries: a potential option for next-generation power accessories for wearable electronics. Energy and Environmental Science, 2020, 13, 1933-1970.	15.6	121
156	Uncovering the Cu-driven electrochemical mechanism of transition metal chalcogenides based electrodes. Energy Storage Materials, 2019, 16, 625-631.	9.5	56
157	Bambooâ€Like Nitrogenâ€Doped Carbon Nanotube Forests as Durable Metalâ€Free Catalysts for Selfâ€Powered Flexible Liâ€"CO₂ Batteries. Advanced Materials, 2019, 31, e1903852.	11.1	141
158	â€œSeeingâ€•the Weak Bonding. Matter, 2019, 1, 304-305.	5.0	0
159	High temperature shockwave stabilized single atoms. Nature Nanotechnology, 2019, 14, 851-857.	15.6	278
160	Freestanding Polymer Crystalline Layers of Subnanometer Order. Macromolecules, 2019, 52, 6018-6024.	2.2	4
161	â€œTopâ€Downâ€•Li Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. Advanced Energy Materials, 2019, 9, 1901491.	10.2	43
162	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. Nano Energy, 2019, 65, 103988.	8.2	45

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163	Reversible intercalation of methyl viologen as a dicationic charge carrier in aqueous batteries. Nature Communications, 2019, 10, 3227.	5.8	46
164	Controlling the Threeâ€Phase Boundary in Naâ€"Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. ChemSusChem, 2019, 12, 4054-4063.	3.6	12
165	A Fourâ€Electron Sulfur Electrode Hosting a Cu²⁺/Cu⁺ Redox Charge Carrier. Angewandte Chemie, 2019, 131, 12770-12775.	1.6	18
166	A Fourâ€Electron Sulfur Electrode Hosting a Cu²⁺/Cu⁺ Redox Charge Carrier. Angewandte Chemie - International Edition, 2019, 58, 12640-12645.	7.2	77
167	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti₃(Al_{<i>x</i>}Cu_{1â€"<i>x</i>})C₂ and Its Artificial Enzyme Behavior. ACS Nano, 2019, 13, 9198-9205.	7.3	59
168	Tuning Li₂O₂ Formation Routes by Facet Engineering of MnO₂ Cathode Catalysts. Journal of the American Chemical Society, 2019, 141, 12832-12838.	6.6	107
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