

Jun Lu

List of Publications by Year in descending order

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598
papers

75,041
citations

211

147
h-index

784

248
g-index

623
all docs

623
docs citations

623
times ranked

42646
citing authors

#	ARTICLE	IF	CITATIONS
1	Na-ion batteries, recent advances and present challenges to become low cost energy storage systems. <i>Energy and Environmental Science</i> , 2012, 5, 5884.	30.8	3,078
2	30 Years of Lithium-ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800561.	21.0	3,039
3	Batteries and fuel cells for emerging electric vehicle markets. <i>Nature Energy</i> , 2018, 3, 279-289.	39.5	1,944
4	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). <i>ACS Nano</i> , 2015, 9, 9507-9516.	14.6	1,395
5	A comprehensive review of sodium layered oxides: powerful cathodes for Na-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 81-102.	30.8	1,085
6	Aprotic and Aqueous Li ⁺ O ₂ Batteries. <i>Chemical Reviews</i> , 2014, 114, 5611-5640.	47.7	975
7	Update on Na-based battery materials. A growing research path. <i>Energy and Environmental Science</i> , 2013, 6, 2312.	30.8	886
8	Commercialization of Lithium Battery Technologies for Electric Vehicles. <i>Advanced Energy Materials</i> , 2019, 9, 1900161.	19.5	865
9	Single lithium-ion conducting solid polymer electrolytes: advances and perspectives. <i>Chemical Society Reviews</i> , 2017, 46, 797-815.	38.1	862
10	Automotive Li-Ion Batteries: Current Status and Future Perspectives. <i>Electrochemical Energy Reviews</i> , 2019, 2, 1-28.	25.5	745
11	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copper-molecular solid catalyst. <i>Nature Energy</i> , 2020, 5, 605-613.	39.5	722
12	Metal-Air Batteries: Will They Be the Future Electrochemical Energy Storage Device of Choice?. <i>ACS Energy Letters</i> , 2017, 2, 1370-1377.	17.4	709
13	Strong Lithium Polysulfide Chemisorption on Electroactive Sites of Nitrogen-Doped Carbon Composites For High-Performance Lithium-Sulfur Battery Cathodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4325-4329.	13.8	686
14	Evolution of redox couples in Li- and Mn-rich cathode materials and mitigation of voltage fade by reducing oxygen release. <i>Nature Energy</i> , 2018, 3, 690-698.	39.5	675
15	A lithium-oxygen battery based on lithium superoxide. <i>Nature</i> , 2016, 529, 377-382.	27.8	633
16	High temperature sodium batteries: status, challenges and future trends. <i>Energy and Environmental Science</i> , 2013, 6, 734.	30.8	620
17	Dissolution, migration, and deposition of transition metal ions in Li-ion batteries exemplified by Mn-based cathodes – a critical review. <i>Energy and Environmental Science</i> , 2018, 11, 243-257.	30.8	618
18	The role of nanotechnology in the development of battery materials for electric vehicles. <i>Nature Nanotechnology</i> , 2016, 11, 1031-1038.	31.5	581

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19	New Concepts in Electrolytes. <i>Chemical Reviews</i> , 2020, 120, 6783-6819.	47.7	554
20	High-Performance Anode Materials for Rechargeable Lithium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2018, 1, 35-53.	25.5	514
21	In-Situ-Reduced Synthesis of Ti^{3+} Self-Doped $\text{TiO}_2/\text{g-C}_3\text{N}_4$ Heterojunctions with High Photocatalytic Performance under LED Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9023-9030.	8.0	489
22	Revisiting the Role of Polysulfides in Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, e1705590.	21.0	456
23	Structural defects on converted bismuth oxide nanotubes enable highly active electrocatalysis of carbon dioxide reduction. <i>Nature Communications</i> , 2019, 10, 2807.	12.8	456
24	Diffusion-free Grotthuss topochemistry for high-rate and long-life proton batteries. <i>Nature Energy</i> , 2019, 4, 123-130.	39.5	446
25	Simultaneously Dual Modification of Ni-Rich Layered Oxide Cathode for High-Energy Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808825.	14.9	430
26	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. <i>Nano Letters</i> , 2014, 14, 416-422.	9.1	422
27	Bridging the academic and industrial metrics for next-generation practical batteries. <i>Nature Nanotechnology</i> , 2019, 14, 200-207.	31.5	420
28	Silicon-based anodes for lithium-ion batteries: Effectiveness of materials synthesis and electrode preparation. <i>Nano Energy</i> , 2016, 27, 359-376.	16.0	415
29	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. <i>Nature Communications</i> , 2013, 4, 2437.	12.8	409
30	Supported Cobalt Polyphthalocyanine for High-Performance Electrocatalytic CO ₂ Reduction. <i>Chem</i> , 2017, 3, 652-664.	11.7	406
31	Interlayer Material Selection for Lithium-Sulfur Batteries. <i>Joule</i> , 2019, 3, 361-386.	24.0	406
32	Progress in Mechanistic Understanding and Characterization Techniques of Li-S Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500408.	19.5	400
33	From Charge Storage Mechanism to Performance: A Roadmap toward High Specific Energy Sodium-Ion Batteries through Carbon Anode Optimization. <i>Advanced Energy Materials</i> , 2018, 8, 1703268.	19.5	396
34	Graphene-Based Three-Dimensional Hierarchical Sandwich-type Architecture for High-Performance Li/S Batteries. <i>Nano Letters</i> , 2013, 13, 4642-4649.	9.1	385
35	A nanostructured cathode architecture for low charge overpotential in lithium-oxygen batteries. <i>Nature Communications</i> , 2013, 4, 2383.	12.8	379
36	Ascorbic-acid-assisted recovery of cobalt and lithium from spent Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 218, 21-27.	7.8	378

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37	In situ quantification of interphasial chemistry in Li-ion battery. <i>Nature Nanotechnology</i> , 2019, 14, 50-56.	31.5	373
38	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. <i>Nature Communications</i> , 2018, 9, 3870.	12.8	367
39	Burning lithium in CS ₂ for high-performing compact Li ₂ S-graphene nanocapsules for Li-S batteries. <i>Nature Energy</i> , 2017, 2, .	39.5	349
40	Succinic acid-based leaching system: A sustainable process for recovery of valuable metals from spent Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 282, 544-551.	7.8	343
41	Holey two-dimensional transition metal oxide nanosheets for efficient energy storage. <i>Nature Communications</i> , 2017, 8, 15139.	12.8	343
42	Reverse Dual-Ion Battery via a ZnCl ₂ Water-in-Salt Electrolyte. <i>Journal of the American Chemical Society</i> , 2019, 141, 6338-6344.	13.7	338
43	State-of-the-art characterization techniques for advanced lithium-ion batteries. <i>Nature Energy</i> , 2017, 2, .	39.5	337
44	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendrite-Free Lithium Metal Anode Current Collector. <i>Advanced Energy Materials</i> , 2018, 8, 1800266.	19.5	336
45	(De)Lithiation Mechanism of Li/SeS ₂ ($x = 0-7$) Batteries Determined by in Situ Synchrotron X-ray Diffraction and X-ray Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 8047-8056.	13.7	332
46	A disordered rock salt anode for fast-charging lithium-ion batteries. <i>Nature</i> , 2020, 585, 63-67.	27.8	326
47	In vivo integrity of polymer-coated gold nanoparticles. <i>Nature Nanotechnology</i> , 2015, 10, 619-623.	31.5	314
48	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9640-9645.	13.8	312
49	Ultrathin Co ₃ O ₄ Layers with Large Contact Area on Carbon Fibers as High-Performance Electrode for Flexible Zinc-Air Battery Integrated with Flexible Display. <i>Advanced Energy Materials</i> , 2017, 7, 1700779.	19.5	309
50	Fast kinetics of magnesium monochloride cations in interlayer-expanded titanium disulfide for magnesium rechargeable batteries. <i>Nature Communications</i> , 2017, 8, 339.	12.8	304
51	Atomically Thin Mesoporous Co ₃ O ₄ Layers Strongly Coupled with NiCrGO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries. <i>Advanced Materials</i> , 2018, 30, 1703657.	21.0	302
52	Understanding materials challenges for rechargeable ion batteries with in situ transmission electron microscopy. <i>Nature Communications</i> , 2017, 8, .	12.8	301
53	Highly Efficient Non-Precious Metal Electrocatalysts Prepared from One-Pot Synthesized Zeolitic Imidazolate Frameworks. <i>Advanced Materials</i> , 2014, 26, 1093-1097.	21.0	296
54	Recent Advances in Flexible Zinc-Based Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802605.	19.5	296

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55	Oxygen Release Degradation in Li-Ion Battery Cathode Materials: Mechanisms and Mitigating Approaches. <i>Advanced Energy Materials</i> , 2019, 9, 1900551.	19.5	293
56	Electrochemically activated spinel manganese oxide for rechargeable aqueous aluminum battery. <i>Nature Communications</i> , 2019, 10, 73.	12.8	291
57	RNA catalyses nuclear pre-mRNA splicing. <i>Nature</i> , 2013, 503, 229-234.	27.8	289
58	Binder-Free V_2O_5 Cathode for Greener Rechargeable Aluminum Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 80-84.	8.0	288
59	Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS_2 Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting. <i>Advanced Energy Materials</i> , 2018, 8, 1800935.	19.5	286
60	Design strategies for nonaqueous multivalent-ion and monovalent-ion battery anodes. <i>Nature Reviews Materials</i> , 2020, 5, 276-294.	48.7	284
61	Advanced $Na[Ni_{0.25}Fe_{0.5}Mn_{0.25}]O_2/CaFe_3O_4$ Sodium-Ion Batteries Using EMS Electrolyte for Energy Storage. <i>Nano Letters</i> , 2014, 14, 1620-1626.		283
62	Rejuvenating dead lithium supply in lithium metal anodes by iodine redox. <i>Nature Energy</i> , 2021, 6, 378-387.	39.5	282
63	Cobalt in lithium-ion batteries. <i>Science</i> , 2020, 367, 979-980.	12.6	280
64	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019, 14, 851-857.	31.5	278
65	Challenges in Zinc Electrodes for Alkaline Zinc-Air Batteries: Obstacles to Commercialization. <i>ACS Energy Letters</i> , 2019, 4, 2259-2270.	17.4	276
66	Selective CO_2 Reduction on 2D Mesoporous Bi Nanosheets. <i>Advanced Energy Materials</i> , 2018, 8, 1801536.	19.5	274
67	Free-Standing Hierarchically Sandwich-Type Tungsten Disulfide Nanotubes/Graphene Anode for Lithium-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 5899-5904.	9.1	268
68	Structurally stable Mg-doped $P2-Na_{2/3}Mn_{1-y}Mg_yO_2$ sodium-ion battery cathodes with high rate performance: insights from electrochemical, NMR and diffraction studies. <i>Energy and Environmental Science</i> , 2016, 9, 3240-3251.	30.8	264
69	Developing high safety Li-metal anodes for future high-energy Li-metal batteries: strategies and perspectives. <i>Chemical Society Reviews</i> , 2020, 49, 5407-5445.	38.1	264
70	Conversion of carbon dioxide to few-layer graphene. <i>Journal of Materials Chemistry</i> , 2011, 21, 9491.	6.7	262
71	Na-Ion Batteries for Large Scale Applications: A Review on Anode Materials and Solid Electrolyte Interphase Formation. <i>Advanced Energy Materials</i> , 2017, 7, 1700463.	19.5	261
72	Efficient Direct Recycling of Lithium-Ion Battery Cathodes by Targeted Healing. <i>Joule</i> , 2020, 4, 2609-2626.	24.0	260

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73	Hard Carbon as Sodium-Ion Battery Anodes: Progress and Challenges. <i>ChemSusChem</i> , 2019, 12, 133-144.	6.8	257
74	Conductivity and lithiophilicity gradients guide lithium deposition to mitigate short circuits. <i>Nature Communications</i> , 2019, 10, 1896.	12.8	256
75	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014, 5, 5693.	12.8	255
76	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. <i>Nature Energy</i> , 2021, 6, 277-286.	39.5	255
77	Electrolytes and Interphases in Sodium-Based Rechargeable Batteries: Recent Advances and Perspectives. <i>Advanced Energy Materials</i> , 2020, 10, 2000093.	19.5	254
78	Synergetic Effect of Ti^{3+} and Oxygen Doping on Enhancing Photoelectrochemical and Photocatalytic Properties of $TiO_2/g-C_3N_4$ Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11577-11586.	8.0	253
79	Hydrogen Storage Properties of Nanosized $MgH_2 \cdot 0.1TiH_2$ Prepared by Ultrahigh-Energy High-Pressure Milling. <i>Journal of the American Chemical Society</i> , 2009, 131, 15843-15852.	13.7	245
80	Recovery of valuable metals from spent lithium-ion batteries by ultrasonic-assisted leaching process. <i>Journal of Power Sources</i> , 2014, 262, 380-385.	7.8	242
81	Elucidating anionic oxygen activity in lithium-rich layered oxides. <i>Nature Communications</i> , 2018, 9, 947.	12.8	241
82	The Effect of Oxygen Crossover on the Anode of a $Li-O_2$ Battery using an Ether-Based Solvent: Insights from Experimental and Computational Studies. <i>ChemSusChem</i> , 2013, 6, 51-55.	6.8	231
83	Na-Ion Batteries—Approaching Old and New Challenges. <i>Advanced Energy Materials</i> , 2020, 10, 2002055.	19.5	229
84	Surface regulation enables high stability of single-crystal lithium-ion cathodes at high voltage. <i>Nature Communications</i> , 2020, 11, 3050.	12.8	225
85	Heterojunction Architecture of N-Doped WO_3 Nanobundles with CeS_3 Nanodots Hybridized on a Carbon Textile Enables a Highly Efficient Flexible Photocatalyst. <i>Advanced Functional Materials</i> , 2019, 29, 1903490.	14.9	223
86	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. <i>Nature Communications</i> , 2019, 10, 4244.	12.8	219
87	Graphene Wrapped $FeSe_2$ Nano-Microspheres with High Pseudocapacitive Contribution for Enhanced Na-Ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1900356.	19.5	216
88	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. <i>Electrochemical Energy Reviews</i> , 2018, 1, 461-482.	25.5	215
89	High Electrochemical Performances of Microsphere $C-TiO_2$ Anode for Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11295-11301.	8.0	213
90	Hard Carbon Originated from Polyvinyl Chloride Nanofibers As High-Performance Anode Material for Na-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5598-5604.	8.0	213

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91	Recent Progress in Biomass-Derived Electrode Materials for High Volumetric Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1801007.	19.5	213
92	Electrode Materials for Sodium-Ion Batteries: Considerations on Crystal Structures and Sodium Storage Mechanisms. <i>Electrochemical Energy Reviews</i> , 2018, 1, 200-237.	25.5	213
93	An Iron-Decorated Carbon Aerogel for Rechargeable Flow and Flexible Zn-Air Batteries. <i>Advanced Materials</i> , 2020, 32, e2002292.	21.0	213
94	Rational Design of a Ni ₃ N _{0.85} Electrocatalyst to Accelerate Polysulfide Conversion in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 6673-6682.	14.6	212
95	Solid electrolytes and interfaces in all-solid-state sodium batteries: Progress and perspective. <i>Nano Energy</i> , 2018, 52, 279-291.	16.0	211
96	Chemisorption of polysulfides through redox reactions with organic molecules for lithium-sulfur batteries. <i>Nature Communications</i> , 2018, 9, 705.	12.8	207
97	Ultra-fast NH ₄ ⁺ Storage: Strong H Bonding between NH ₄ ⁺ and Bi-layered V ₂ O ₅ . <i>CheM</i> , 2019, 5, 1537-1551.	11.7	207
98	Origin of structural degradation in Li-rich layered oxide cathode. <i>Nature</i> , 2022, 606, 305-312.	27.8	206
99	Synthesis of closed PbS nanowires with regular geometric morphologies Electronic supplementary information (ESI) available: XRD pattern of the PbS CNWs, FTIR spectrum of the polymer, TEM images of more PbS CNWs. See http://www.rsc.org/suppdata/jm/b1/b111187f/ . <i>Journal of Materials Chemistry</i> , 2002, 12, 403-405.	6.7	205
100	High Volumetric Capacitance, Ultralong Life Supercapacitors Enabled by Waxberry-Derived Hierarchical Porous Carbon Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1702695.	19.5	204
101	Boosting Sodium Storage in TiO ₂ Nanotube Arrays through Surface Phosphorylation. <i>Advanced Materials</i> , 2018, 30, 1704337.	21.0	201
102	Magnetic Field-Suppressed Lithium Dendrite Growth for Stable Lithium-Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900260.	19.5	200
103	Simultaneous In Situ Formation of ZnS Nanowires in a Liquid Crystal Template by γ -Irradiation. <i>Chemistry of Materials</i> , 2001, 13, 1213-1218.	6.7	198
104	Cation-doped ZnS catalysts for polysulfide conversion in lithium-sulfur batteries. <i>Nature Catalysis</i> , 2022, 5, 555-563.	34.4	198
105	Synthesis of high-entropy alloy nanoparticles on supports by the fast moving bed pyrolysis. <i>Nature Communications</i> , 2020, 11, 2016.	12.8	195
106	Synthesis of rod-, twinrod-, and tetrapod-shaped CdS nanocrystals using a highly oriented solvothermal recrystallization technique. <i>Journal of Materials Chemistry</i> , 2002, 12, 748-753.	6.7	192
107	High-Performance P2-Phase Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ Cathode Material for Ambient-Temperature Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 106-116.	6.7	192
108	Layered P2/O3 Intergrowth Cathode: Toward High Power Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400458.	19.5	191

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109	Understanding Thermodynamic and Kinetic Contributions in Expanding the Stability Window of Aqueous Electrolytes. <i>CheM</i> , 2018, 4, 2872-2882.	11.7	187
110	Effect of the size-selective silver clusters on lithium peroxide morphology in lithium-oxygen batteries. <i>Nature Communications</i> , 2014, 5, 4895.	12.8	186
111	Synthesis of Porous Carbon Supported Palladium Nanoparticle Catalysts by Atomic Layer Deposition: Application for Rechargeable Lithium-O ₂ Battery. <i>Nano Letters</i> , 2013, 13, 4182-4189.	9.1	184
112	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. <i>Nature Communications</i> , 2019, 10, 4721.	12.8	182
113	Interweaving 3D Network Binder for High-Areal-Capacity Si Anode through Combined Hard and Soft Polymers. <i>Advanced Energy Materials</i> , 2019, 9, 1802645.	19.5	181
114	The influence of large cations on the electrochemical properties of tunnel-structured metal oxides. <i>Nature Communications</i> , 2016, 7, 13374.	12.8	180
115	Vanadium Oxide Pillared by Interlayer Mg ²⁺ Ions and Water as Ultralong-Life Cathodes for Magnesium-Ion Batteries. <i>CheM</i> , 2019, 5, 1194-1209.	11.7	180
116	Bismuth chalcogenide compounds Bi ₂ X ₃ (X=O, S, Se): Applications in electrochemical energy storage. <i>Nano Energy</i> , 2017, 34, 356-366.	16.0	179
117	Regulating the spatial distribution of metal nanoparticles within metal-organic frameworks to enhance catalytic efficiency. <i>Nature Communications</i> , 2017, 8, 14429.	12.8	179
118	Tuning of Thermal Stability in Layered Li(Ni _x Mn _y Co _z)O ₂ . <i>Journal of the American Chemical Society</i> , 2016, 138, 13326-13334.	13.7	178
119	Heteroatom-Doped Porous Carbon Materials with Unprecedented High Volumetric Capacitive Performance. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2397-2401.	13.8	178
120	In situ fabrication of porous-carbon-supported MnO ₂ nanorods at room temperature: application for rechargeable Li-O ₂ batteries. <i>Energy and Environmental Science</i> , 2013, 6, 519.	30.8	175
121	Preparation and phase transformation of nanocrystalline copper sulfides (Cu ₉ S ₈ , Cu ₇ S ₄ and CuS) at low temperature. <i>Journal of Materials Chemistry</i> , 2000, 10, 2193-2196.	6.7	174
122	Lithium-Sulfur Batteries for Commercial Applications. <i>CheM</i> , 2018, 4, 3-7.	11.7	174
123	Enhancing Oxygen Reduction Activity of Pt-based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18334-18348.	13.8	174
124	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO _x Doping. <i>ACS Energy Letters</i> , 2016, 1, 395-401.	17.4	172
125	Revitalising sodium-sulfur batteries for non-high-temperature operation: a crucial review. <i>Energy and Environmental Science</i> , 2020, 13, 3848-3879.	30.8	172
126	Anion-redox nanolithia cathodes for Li-ion batteries. <i>Nature Energy</i> , 2016, 1, .	39.5	171

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127	Defect Engineering of Chalcogen-Tailored Oxygen Electrocatalysts for Rechargeable Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1702526.	21.0	171
128	Amorphous MoS ₃ as the sulfur-equivalent cathode material for room-temperature Li-S and Na-S batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13091-13096.	7.1	170
129	Insights into the Na ⁺ Storage Mechanism of Phosphorus-Functionalized Hard Carbon as Ultrahigh Capacity Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702781.	19.5	170
130	±-MnO ₂ nanotubes: high surface area and enhanced lithium battery properties. <i>Chemical Communications</i> , 2012, 48, 6945.	4.1	168
131	Increased Stability Toward Oxygen Reduction Products for Lithium-Air Batteries with Oligoether-Functionalized Silane Electrolytes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25535-25542.	3.1	166
132	Study of the dissolution behavior of selenium and tellurium in different solvents—a novel route to Se, Te tubular bulk single crystals. <i>Journal of Materials Chemistry</i> , 2002, 12, 2755-2761.	6.7	165
133	Exceptionally High Ionic Conductivity in Na ₃ P _{0.62} As _{0.38} S ₄ with Improved Moisture Stability for Solid-State Sodium-Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1605561.	21.0	164
134	Amorphous MoS ₃ Infiltrated with Carbon Nanotubes as an Advanced Anode Material of Sodium-Ion Batteries with Large Gravimetric, Areal, and Volumetric Capacities. <i>Advanced Energy Materials</i> , 2017, 7, 1601602.	19.5	164
135	Temperature-Sensitive Structure Evolution of Lithium-Manganese-Rich Layered Oxides for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 15279-15289.	13.7	163
136	Design of surface protective layer of LiF/FeF ₃ nanoparticles in Li-rich cathode for high-capacity Li-ion batteries. <i>Nano Energy</i> , 2015, 15, 164-176.	16.0	162
137	New Insights into the Performance Degradation of Fe-Based Layered Oxides in Sodium-Ion Batteries: Instability of Fe ³⁺ /Fe ⁴⁺ Redox in ±-NaFeO ₂ . <i>Chemistry of Materials</i> , 2015, 27, 6755-6764.	6.7	162
138	Asynchronous Crystal Cell Expansion during Lithiation of K ⁺ -Stabilized ±-MnO ₂ . <i>Nano Letters</i> , 2015, 15, 2998-3007.	9.1	161
139	Mg-Ion Battery Electrode: An Organic Solid™s Herringbone Structure Squeezed upon Mg-Ion Insertion. <i>Journal of the American Chemical Society</i> , 2017, 139, 13031-13037.	13.7	161
140	Challenges and future perspectives on sodium and potassium ion batteries for grid-scale energy storage. <i>Materials Today</i> , 2021, 50, 400-417.	14.2	161
141	Dimeric [Mo ₂ S ₁₂] ²⁺ Cluster: A Molecular Analogue of MoS ₂ Edges for Superior Hydrogen-Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15181-15185.	13.8	160
142	Elevated-Temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800615.	21.0	159
143	Lithiophilic 3D Porous CuZn Current Collector for Stable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020, 5, 180-186.	17.4	159
144	Sonochemical Synthesis and Mechanistic Study of Copper Selenides Cu _{2-x} Se, ± ² -CuSe, and Cu ₃ Se ₂ . <i>Inorganic Chemistry</i> , 2002, 41, 387-392.	4.0	158

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145	Two-Dimensional Holey Co ₃ O ₄ Nanosheets for High-Rate Alkali-Ion Batteries: From Rational Synthesis to in Situ Probing. Nano Letters, 2017, 17, 3907-3913.	9.1	158
146	An Effective Approach To Protect Lithium Anode and Improve Cycle Performance for Li ⁺ S Batteries. ACS Applied Materials & Interfaces, 2014, 6, 15542-15549.	8.0	157
147	Mesoporous PdAg Nanospheres for Stable Electrochemical CO ₂ Reduction to Formate. Advanced Materials, 2020, 32, e2000992.	21.0	153
148	Cationic and anionic redox in lithium-ion based batteries. Chemical Society Reviews, 2020, 49, 1688-1705.	38.1	152
149	A Quasi-Solid-State Flexible Fiber-Shaped Li ⁺ CO ₂ Battery with Low Overpotential and High Energy Efficiency. Advanced Materials, 2019, 31, e1804439.	21.0	151
150	Study on the Catalytic Activity of Noble Metal Nanoparticles on Reduced Graphene Oxide for Oxygen Evolution Reactions in Lithium ⁺ Air Batteries. Nano Letters, 2015, 15, 4261-4268.	9.1	149
151	In Operando XRD and TXM Study on the Metastable Structure Change of NaNi _{1/3} Fe _{1/3} Mn _{1/3} O ₂ under Electrochemical Sodium ⁺ Ion Intercalation. Advanced Energy Materials, 2016, 6, 1601306.	19.5	147
152	Metastable MnS Crystallites through Solvothermal Synthesis. Chemistry of Materials, 2001, 13, 2169-2172.	6.7	146
153	Freestanding three-dimensional core-shell nanoarrays for lithium-ion battery anodes. Nature Communications, 2016, 7, 11774.	12.8	143
154	Effective strategies for stabilizing sulfur for advanced lithium ⁺ sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 448-469.	10.3	143
155	Enabling high energy lithium metal batteries via single-crystal Ni-rich cathode material co-doping strategy. Nature Communications, 2022, 13, 2319.	12.8	143
156	Phosphorus: An Anode of Choice for Sodium-Ion Batteries. ACS Energy Letters, 2018, 3, 1137-1144.	17.4	141
157	Bamboo-Like Nitrogen-Doped Carbon Nanotube Forests as Durable Metal-Free Catalysts for Self-Powered Flexible Li ⁺ CO ₂ Batteries. Advanced Materials, 2019, 31, e1903852.	21.0	141
158	Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. Nature Energy, 2017, 2, 963-971.	39.5	140
159	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. Nature Communications, 2019, 10, 602.	12.8	138
160	Cathode Material with Nanorod Structure—An Application for Advanced High-Energy and Safe Lithium Batteries. Chemistry of Materials, 2013, 25, 2109-2115.	6.7	137
161	Fundamental Understanding and Material Challenges in Rechargeable Nonaqueous Li ⁺ O ₂ Batteries: Recent Progress and Perspective. Advanced Energy Materials, 2018, 8, 1800348.	19.5	137
162	A High-Rate Aqueous Proton Battery Delivering Power Below ~78 °C via an Unfrozen Phosphoric Acid. Advanced Energy Materials, 2020, 10, 2000968.	19.5	134

#	ARTICLE	IF	CITATIONS
163	High-Performance, Long-Life, Rechargeable Li ⁺ /CO ₂ Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , 2020, 32, e1907436.	21.0	133
164	Effect of Ti Intermetallic Catalysts on Hydrogen Storage Properties of Magnesium Hydride. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12973-12980.	3.1	132
165	Z-Scheme NiTiO ₃ /g-C ₃ N ₄ Heterojunctions with Enhanced Photoelectrochemical and Photocatalytic Performances under Visible LED Light Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41120-41125.	8.0	130
166	Improved Sodium-Ion Storage Performance of Ultrasmall Iron Selenide Nanoparticles. <i>Nano Letters</i> , 2017, 17, 4137-4142.	9.1	128
167	Stabilization of a High-Capacity and High-Power Nickel-Based Cathode for Li-Ion Batteries. <i>CheM</i> , 2018, 4, 690-704.	11.7	128
168	Scalable Room-Temperature Synthesis of Multi-shelled Na ₃ (VOPO ₄) ₂ F Microsphere Cathodes. <i>Joule</i> , 2018, 2, 2348-2363.	24.0	128
169	Sea urchin-like NiCoO ₂ @C nanocomposites for Li-ion batteries and supercapacitors. <i>Nano Energy</i> , 2016, 27, 457-465.	16.0	127
170	Visible-light-driven photocatalytic S- and C- codoped meso/nanoporous TiO ₂ . <i>Energy and Environmental Science</i> , 2010, 3, 1128.	30.8	126
171	Designing MOFs-Derived FeS ₂ @Carbon Composites for High-Rate Sodium Ion Storage with Capacitive Contributions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33097-33104.	8.0	126
172	Activating Li ₂ S as the Lithium-Containing Cathode in Lithium ⁺ /Sulfur Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2234-2245.	17.4	125
173	Solid-State Li-Ion Batteries Using Fast, Stable, Glassy Nanocomposite Electrolytes for Good Safety and Long Cycle-Life. <i>Nano Letters</i> , 2016, 16, 1960-1968.	9.1	124
174	Ordering Heterogeneity of [MnO ₆] Octahedra in Tunnel-Structured MnO ₂ and Its Influence on Ion Storage. <i>Joule</i> , 2019, 3, 471-484.	24.0	123
175	Hydrogenation of Nanocrystalline Mg at Room Temperature in the Presence of TiH ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 6616-6617.	13.7	121
176	Flexible metal ⁺ gas batteries: a potential option for next-generation power accessories for wearable electronics. <i>Energy and Environmental Science</i> , 2020, 13, 1933-1970.	30.8	121
177	Insight into Sulfur Reactions in Li ⁺ /S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21938-21945.	8.0	120
178	Electrochemical Doping of Halide Perovskites with Ion Intercalation. <i>ACS Nano</i> , 2017, 11, 1073-1079.	14.6	118
179	Demanding energy from carbon. , 2019, 1, 8-12.		118
180	Structural evolution during sodium deintercalation/intercalation in Na _{2/3} [Fe _{1/2} Mn _{1/2}]O ₂ . <i>Journal of Materials Chemistry A</i> , 2015, 3, 6954-6961.	10.3	117

#	ARTICLE	IF	CITATIONS
181	Open-Structured V_2O_5 Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602720.	19.5	116
182	Electrochemical Na Extraction/Insertion of $Na_3V_2O_7 \cdot xH_2O$ (PO ₄) ₂ F ₃ . <i>Chemistry of Materials</i> , 2013, 25, 4917-4925.		112
183	Relating Catalysis between Fuel Cell and Metal-Air Batteries. <i>Matter</i> , 2020, 2, 32-49.	10.0	112
184	Synthesis, Characterization, and Structural Modeling of High-Capacity, Dual Functioning MnO_2 Electrode/Electrocatalysts for LiO_2 Cells. <i>Advanced Energy Materials</i> , 2013, 3, 75-84.	19.5	111
185	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. <i>ACS Nano</i> , 2018, 12, 12337-12346.	14.6	111
186	Lithium titanate hydrates with superfast and stable cycling in lithium ion batteries. <i>Nature Communications</i> , 2017, 8, 627.	12.8	110
187	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electro catalysis. <i>ACS Catalysis</i> , 2021, 11, 8837-8846.	11.2	110
188	Solar-powered electrochemical energy storage: an alternative to solar fuels. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2766-2782.	10.3	109
189	Surface Amorphization of Vanadium Dioxide (B) for K^+ Battery. <i>Advanced Energy Materials</i> , 2020, 10, 2000717.	19.5	109
190	Atomic/molecular layer deposition for energy storage and conversion. <i>Chemical Society Reviews</i> , 2021, 50, 3889-3956.	38.1	109
191	Whole-Voltage-Range Oxygen Redox in P_2 -Layered Cathode Materials for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2008194.	21.0	108
192	Tuning Li_2O_2 Formation Routes by Facet Engineering of MnO_2 Cathode Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 12832-12838.	13.7	107
193	Challenges and perspectives on high and intermediate-temperature sodium batteries. <i>Nano Research</i> , 2017, 10, 4082-4114.	10.4	104
194	Sacrificial template synthesis of hollow $C@MoS_2@PPy$ nanocomposites as anodes for enhanced sodium storage performance. <i>Nano Energy</i> , 2019, 60, 362-370.	16.0	104
195	Unraveling the Nature of Excellent Potassium Storage in Small-Molecule $Se@Peapod$ -Like N -Doped Carbon Nanofibers. <i>Advanced Materials</i> , 2020, 32, e2003879.	21.0	104
196	Thermodynamic and Kinetic Destabilization of Magnesium Hydride Using Mg -In Solid Solution Alloys. <i>Journal of the American Chemical Society</i> , 2013, 135, 10982-10985.	13.7	103
197	Self-activation of cellulose: A new preparation methodology for activated carbon electrodes in electrochemical capacitors. <i>Nano Energy</i> , 2015, 13, 709-717.	16.0	103
198	A novel coronene// $Na_2Ti_3O_7$ dual-ion battery. <i>Nano Energy</i> , 2017, 40, 233-239.	16.0	103

#	ARTICLE	IF	CITATIONS
199	Wood Carbon Based Single-Atom Catalyst for Rechargeable Zn-Air Batteries. ACS Energy Letters, 2021, 6, 3624-3633.	17.4	103
200	Efficient photocatalytic H ₂ production via rational design of synergistic spatially-separated dual cocatalysts modified Mn _{0.5} Cd _{0.5} S photocatalyst under visible light irradiation. Chemical Engineering Journal, 2018, 337, 480-487.	12.7	102
201	Fullerene-Based In Situ Doping of N and Fe into a 3D Cross-Like Hierarchical Carbon Composite for High-Performance Supercapacitors. Advanced Energy Materials, 2019, 9, 1802928.	19.5	102
202	An approach to overcome first cycle irreversible capacity in P ₂ -Na _{2/3} [Fe _{1/2} Mn _{1/2}]O ₂ . Electrochemistry Communications, 2013, 37, 61-63.	4.7	100
203	Reducing CO ₂ to dense nanoporous graphene by Mg/Zn for high power electrochemical capacitors. Nano Energy, 2015, 11, 600-610.	16.0	100
204	Facet-Dependent Thermal Instability in LiCoO ₂ . Nano Letters, 2017, 17, 2165-2171.	9.1	99
205	Polypyrrole-encapsulated amorphous Bi ₂ S ₃ hollow sphere for long life sodium ion batteries and lithium-sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 11370-11378.	10.3	99
206	Synthesis and electrochemical performance of cathode material Li _{1.2} Co _{0.13} Ni _{0.13} Mn _{0.54} O ₂ from spent lithium-ion batteries. Journal of Power Sources, 2014, 249, 28-34.	7.8	98
207	Dense Graphene Monolith for High Volumetric Energy Density Li-S Batteries. Advanced Energy Materials, 2018, 8, 1703438.	19.5	97
208	Advances in the development of power supplies for the Internet of Everything. Informa-Materially, 2019, 1, 130-139.	17.3	97
209	Deciphering the Reaction Mechanism of Lithium-Sulfur Batteries by In Situ/Operando Synchrotron-Based Characterization Techniques. Advanced Energy Materials, 2019, 9, 1900148.	19.5	96
210	Silica Restricting the Sulfur Volatilization of Nickel Sulfide for High-Performance Lithium-Ion Batteries. Advanced Energy Materials, 2019, 9, 1901153.	19.5	94
211	Facile Synthesis of Boron-Doped rGO as Cathode Material for High Energy Li-O ₂ Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23635-23645.	8.0	93
212	Expanding Interlayer Spacing of Hard Carbon by Natural K ⁺ Doping to Boost Na-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 27030-27038.	8.0	93
213	Interfacial Effects on Lithium Superoxide Disproportionation in Li-O ₂ Batteries. Nano Letters, 2015, 15, 1041-1046.	9.1	92
214	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907.	21.0	92
215	Boosting Cell Performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ via Surface Structure Design. Small, 2019, 15, e1904854.	10.0	92
216	An Aqueous Dual-Ion Battery Cathode of Mn ₃ O ₄ via Reversible Insertion of Nitrate. Angewandte Chemie - International Edition, 2019, 58, 5286-5291.	13.8	92

#	ARTICLE	IF	CITATIONS
217	Switchable encapsulation of polysulfides in the transition between sulfur and lithium sulfide. <i>Nature Communications</i> , 2020, 11, 845.	12.8	92
218	Toward Highly Efficient Electrocatalyst for Li^+O_2 Batteries Using Biphasic N-Doping Cobalt@Graphene Multiple-Capsule Heterostructures. <i>Nano Letters</i> , 2017, 17, 2959-2966.	9.1	91
219	Synthesis of Novel Nickel Sulfide Layer-Rolled Structures. <i>Advanced Materials</i> , 2001, 13, 1278.	21.0	90
220	Mechanism of capacity fade of MCMB/Li1.1[Ni1/3Mn1/3Co1/3]O ₂ cell at elevated temperature and additives to improve its cycle life. <i>Journal of Materials Chemistry</i> , 2011, 21, 17754.	6.7	89
221	Sn Nanoparticles Encapsulated in 3D Nanoporous Carbon Derived from a Metal-Organic Framework for Anode Material in Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17172-17177.	8.0	89
222	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 5746.	12.8	89
223	Platinum-Coated Hollow Graphene Nanocages as Cathode Used in Lithium-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 7626-7633.	14.9	88
224	Kinetic Study of Parasitic Reactions in Lithium-Ion Batteries: A Case Study on $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3446-3451.	8.0	88
225	Construction of Hierarchically Porous Nanoparticles@Metal-Organic Frameworks Composites by Inherent Defects for the Enhancement of Catalytic Efficiency. <i>Advanced Materials</i> , 2018, 30, e1803263.	21.0	88
226	Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air. <i>Advanced Energy Materials</i> , 2019, 9, 1901434.	19.5	87
227	ZnS coating of cathode facilitates lean electrolyte Li^+ batteries. , 2019, 1, 165-172.		87
228	Functionalized separator for next-generation batteries. <i>Materials Today</i> , 2020, 41, 143-155.	14.2	87
229	A Novel Route to Multiwalled Carbon Nanotubes and Carbon Nanorods at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2002, 106, 933-937.	2.6	86
230	Sodium-Oxygen Battery: Steps Toward Reality. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1161-1166.	4.6	86
231	Review-Polymer Electrolytes for Sodium Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070534.	2.9	86
232	A Simple Electrode-Level Chemical Presodiation Route by Solution Spraying to Improve the Energy Density of Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903795.	14.9	85
233	Reversible (De)Intercalation of Hydrated Zn^{2+} in Mg^{2+} -Stabilized V_2O_5 Nanobelts with High Areal Capacity. <i>Advanced Energy Materials</i> , 2020, 10, 2002293.	19.5	84
234	Three-Dimensional Microbatteries beyond Lithium Ion. <i>Matter</i> , 2020, 2, 1366-1376.	10.0	84

#	ARTICLE	IF	CITATIONS
235	Nitrogen and sulfur co-doped porous carbon sheets for energy storage and pH-universal oxygen reduction reaction. <i>Nano Energy</i> , 2018, 54, 192-199.	16.0	83
236	Ultradispersed WxC nanoparticles enable fast polysulfide interconversion for high-performance Li-S batteries. <i>Nano Energy</i> , 2019, 59, 636-643.	16.0	83
237	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fast-Charging Zn Battery Chemistry. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	82
238	Encapsulating micro-nano Si/SiO _x into conjugated nitrogen-doped carbon as binder-free monolithic anodes for advanced lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 8023-8034.	5.6	81
239	Ultrafast and Highly Reversible Sodium Storage in Zinc-Antimony Intermetallic Nanomaterials. <i>Advanced Functional Materials</i> , 2016, 26, 543-552.	14.9	81
240	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. <i>Nano Letters</i> , 2017, 17, 2539-2546.	9.1	81
241	In Situ Construction of Uniform and Robust Cathode-Electrolyte Interphase for Li-Rich Layered Oxides. <i>Advanced Functional Materials</i> , 2021, 31, 2009192.	14.9	81
242	A Co- and Ni-Free P2/O3 Biphasic Lithium Stabilized Layered Oxide for Sodium-Ion Batteries and its Cycling Behavior. <i>Advanced Functional Materials</i> , 2020, 30, 2003364.	14.9	80
243	Rational design of mechanically robust Ni-rich cathode materials via concentration gradient strategy. <i>Nature Communications</i> , 2021, 12, 6024.	12.8	80
244	Depolarization effect to enhance the performance of lithium ions batteries. <i>Nano Energy</i> , 2017, 33, 497-507.	16.0	79
245	Structural Distortion Induced by Manganese Activation in a Lithium-Rich Layered Cathode. <i>Journal of the American Chemical Society</i> , 2020, 142, 14966-14973.	13.7	79
246	Hydrogen storage properties of the Mg-Ti-H system prepared by high-energy-high-pressure reactive milling. <i>Journal of Power Sources</i> , 2008, 180, 491-497.	7.8	78
247	An experimental study of the (Ti ₆ Al ₄) _x H phase diagram using in situ synchrotron XRD and TGA/DSC techniques. <i>Acta Materialia</i> , 2015, 84, 29-41.	7.9	78
248	Polycation ionic liquid tailored PEO-based solid polymer electrolytes for high temperature lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 33, 173-180.	18.0	78
249	Catalytic materials for lithium-sulfur batteries: mechanisms, design strategies and future perspective. <i>Materials Today</i> , 2022, 52, 364-388.	14.2	78
250	A Four-Electron Sulfur Electrode Hosting a Cu ²⁺ /Cu ⁺ Redox Charge Carrier. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12640-12645.	13.8	77
251	Sustainability-inspired cell design for a fully recyclable sodium ion battery. <i>Nature Communications</i> , 2019, 10, 1965.	12.8	77
252	Visualizing Lithium Dendrite Formation within Solid-State Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 451-458.	17.4	77

#	ARTICLE	IF	CITATIONS
253	Compatibility of lithium salts with solvent of the non-aqueous electrolyte in Li ⁺ O ₂ batteries. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5572.	2.8	76
254	In Situ Analysis of Gas Generation in Lithium-Ion Batteries with Different Carbonate-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22751-22755.	8.0	76
255	Kinetics Tuning the Electrochemistry of Lithium Dendrites Formation in Lithium Batteries through Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7003-7008.	8.0	76
256	Analysis of the Stable Interphase Responsible for the Excellent Electrochemical Performance of Graphite Electrodes in Sodium-Ion Batteries. <i>Small</i> , 2020, 16, e2003268.	10.0	75
257	A Lithium-Sulfur Battery using a 2D Current Collector Architecture with a Large-Sized Sulfur Host Operated under High Areal Loading and Low E/S Ratio. <i>Advanced Materials</i> , 2018, 30, e1804271.	21.0	74
258	Metal-organic framework-derived Nickel Cobalt oxysulfide nanocages as trifunctional electrocatalysts for high efficiency power to hydrogen. <i>Nano Energy</i> , 2019, 58, 680-686.	16.0	74
259	A Triphasic Bifunctional Oxygen Electrocatalyst with Tunable and Synergetic Interfacial Structure for Rechargeable Zn-Air Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903003.	19.5	74
260	Dehydrogenation of a Combined LiAlH ₄ /LiNH ₂ System. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20830-20834.	2.6	73
261	3D Hierarchical nano-flake/micro-flower iron fluoride with hydration water induced tunnels for secondary lithium battery cathodes. <i>Nano Energy</i> , 2017, 32, 10-18.	16.0	73
262	Layered P ₂ O ₃ sodium-ion cathodes derived from earth abundant elements. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3552-3559.	10.3	73
263	General Acid-Base Catalysis Mediated by Nucleobases in the Hairpin Ribozyme. <i>Journal of the American Chemical Society</i> , 2012, 134, 16717-16724.	13.7	72
264	Atomic Layer Deposition for Lithium-Based Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600564.	3.7	71
265	Durian-Inspired Design of Bismuth-Antimony Alloy Arrays for Robust Sodium Storage. <i>ACS Nano</i> , 2020, 14, 9117-9124.	14.6	71
266	Native Vacancy Enhanced Oxygen Redox Reversibility and Structural Robustness. <i>Advanced Energy Materials</i> , 2019, 9, 1803087.	19.5	70
267	Strain-Modulated Platinum-Palladium Nanowires for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2020, 20, 2416-2422.	9.1	70
268	Nucleobase-mediated general acid-base catalysis in the Varkud satellite ribozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11751-11756.	7.1	69
269	Crystallographic Evolution of P ₂ Na _{2/3} Fe _{0.4} Mn _{0.6} O ₂ Electrodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2016, 28, 6342-6354.	6.7	69
270	An Extremely Fast Charging Li ₃ V ₂ (PO ₄) ₃ Cathode at a 4.8 V Cutoff Voltage for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2020, 5, 1763-1770.	17.4	69

#	ARTICLE	IF	CITATIONS
271	Atomic Layer Co ₃ O ₄ Nanosheets: The Key to Knittable Zn-Air Batteries. <i>Small</i> , 2018, 14, e1702987.	10.0	68
272	New freeze-drying method for LiFePO ₄ synthesis. <i>Journal of Power Sources</i> , 2007, 171, 879-885.	7.8	67
273	Ultrasonic-assisted pyrolyzation fabrication of reduced SnO ₂ /g-C ₃ N ₄ heterojunctions: Enhance photoelectrochemical and photocatalytic activity under visible LED light irradiation. <i>Nano Research</i> , 2016, 9, 1969-1982.	10.4	67
274	Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. <i>ACS Nano</i> , 2016, 10, 539-548.	14.6	66
275	Synthesis of full concentration gradient cathode studied by high energy X-ray diffraction. <i>Nano Energy</i> , 2016, 19, 522-531.	16.0	66
276	An Effectively Activated Hierarchical Nano-Microspherical Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ Cathode for Long-Life and High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2016, 9, 728-735.	6.8	65
277	Revealing mechanism responsible for structural reversibility of single-crystal VO ₂ nanorods upon lithiation/delithiation. <i>Nano Energy</i> , 2017, 36, 197-205.	16.0	65
278	The importance of anode protection towards lithium oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3563-3573.	10.3	65
279	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020, 11, 6373.	12.8	65
280	Fast-Charging and Ultrahigh-Capacity Lithium Metal Anode Enabled by Surface Alloying. <i>Advanced Energy Materials</i> , 2020, 10, 1902343.	19.5	65
281	Chemical Immobilization and Conversion of Active Polysulfides Directly by Copper Current Collector: A New Approach to Enabling Stable Room-Temperature Li-S and Na-S Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800624.	19.5	64
282	Rooting binder-free tin nanoarrays into copper substrate via tin-copper alloying for robust energy storage. <i>Nature Communications</i> , 2020, 11, 1212.	12.8	64
283	New Insights into the Instability of Discharge Products in Na-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20120-20127.	8.0	63
284	Synchrotron-Based X-ray Absorption Fine Structures, X-ray Diffraction, and X-ray Microscopy Techniques Applied in the Study of Lithium Secondary Batteries. <i>Small Methods</i> , 2018, 2, 1700341.	8.6	62
285	Site-Selective Catalysis of a Multifunctional Linear Molecule: The Steric Hindrance of Metal-Organic Framework Channels. <i>Advanced Materials</i> , 2018, 30, e1800643.	21.0	62
286	Chemical Heterointerface Engineering on Hybrid Electrode Materials for Electrochemical Energy Storage. <i>Small Methods</i> , 2021, 5, e2100444.	8.6	62
287	Fluorinated co-solvent promises Li-S batteries under lean-electrolyte conditions. <i>Materials Today</i> , 2020, 40, 63-71.	14.2	61
288	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. <i>Science Advances</i> , 2020, 6, .	10.3	61

#	ARTICLE	IF	CITATIONS
289	Oleate vesicle template route to silver nanowires. <i>Journal of Materials Chemistry</i> , 2001, 11, 1775-1777.	6.7	60
290	Optical Sensing of Small Ions with Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2012, 24, 738-745.	6.7	60
291	Encapsulating Various Sulfur Allotropes within Graphene Nanocages for Long-Lasting Lithium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1706443.	14.9	60
292	Anti-Oxygen Leaking LiCoO ₂ . <i>Advanced Functional Materials</i> , 2019, 29, 1901110.	14.9	60
293	1000 Wh L ⁻¹ lithium-ion batteries enabled by crosslink-shrunk tough carbon encapsulated silicon microparticle anodes. <i>National Science Review</i> , 2021, 8, nwab012.	9.5	60
294	An Ultrafast, Durable, and High-Loading Polymer Anode for Aqueous Zinc-Ion Batteries and Supercapacitors. <i>Advanced Materials</i> , 2022, 34, e2200077.	21.0	60
295	Aqueous synthesis of III-V semiconductor GaP and InP exhibiting pronounced quantum confinement. <i>Chemical Communications</i> , 2002, , 3064-3065.	4.1	59
296	Potential of Binary Lithium Magnesium Nitride for Hydrogen Storage Applications. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12129-12134.	3.1	59
297	Operando liquid cell electron microscopy of discharge and charge kinetics in lithium-oxygen batteries. <i>Nano Energy</i> , 2018, 49, 338-345.	16.0	59
298	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti ₃ (Al _x)Cu _{1-x} C ₂ and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , 2019, 13, 9198-9205.	14.6	59
299	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019, 131, 9742-9747.	2.0	59
300	Consolidating Lithiothermic-Ready Transition Metals for Li ₂ S-Based Cathodes. <i>Advanced Materials</i> , 2020, 32, e2002403.	21.0	59
301	Intelligence-assisted predesign for the sustainable recycling of lithium-ion batteries and beyond. <i>Energy and Environmental Science</i> , 2021, 14, 5801-5815.	30.8	59
302	Designing inorganic electrolytes for solid-state Li-ion batteries: A perspective of LGPS and garnet. <i>Materials Today</i> , 2021, 50, 418-441.	14.2	59
303	Î ³ -Fe ₂ O ₃ Nanocrystalline Microspheres with Hybrid Behavior of Battery-Supercapacitor for Superior Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26284-26290.	8.0	58
304	Electrochemical Lithium Doping Induced Property Changes In Halide Perovskite CsPbBr ₃ Crystal. <i>ACS Energy Letters</i> , 2018, 3, 264-269.	17.4	58
305	Preparation, Characterization, and Catalytic Effect of CS ₂ -Stabilized Silver Nanoparticles in Aqueous Solution. <i>Langmuir</i> , 2001, 17, 3795-3799.	3.5	57
306	A New Li ⁺ Al ³⁺ N ³⁻ H System for Reversible Hydrogen Storage. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14236-14239.	2.6	57

#	ARTICLE	IF	CITATIONS
307	Cation only conduction in new polymer-SiO ₂ nanohybrids: Na ⁺ electrolytes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8348.	10.3	57
308	Rate-Dependent, Li-Ion Insertion/Deinsertion Behavior of LiFePO ₄ Cathodes in Commercial 18650 LiFePO ₄ Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3282-3289.	8.0	57
309	Sulfur cathode based on layered carbon matrix for high-performance Li-S batteries. <i>Nano Energy</i> , 2015, 12, 742-749.	16.0	57
310	Lithium Iron Orthosilicate Cathode: Progress and Perspectives. <i>ACS Energy Letters</i> , 2017, 2, 1771-1781.	17.4	57
311	Cations controlled growth of MnO ₂ crystals with tunable facets for electrochemical energy storage. <i>Nano Energy</i> , 2018, 48, 301-311.	16.0	56
312	Uncovering the Cu-driven electrochemical mechanism of transition metal chalcogenides based electrodes. <i>Energy Storage Materials</i> , 2019, 16, 625-631.	18.0	56
313	Hydrocol-Seed-Growth of ZnO Nanoparticles on N-Codoped Meso/Nanoporous TiO ₂ for Visible Light-Driven Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9510-9517.	3.1	55
314	Thermodynamic Destabilization of Magnesium Hydride Using Mg-Based Solid Solution Alloys. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11526-11535.	3.1	55
315	Highly Efficient, Cost Effective, and Safe Sodiation Agent for High-Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 3286-3291.	6.8	55
316	Enhanced lithium storage capability of Fe ₃ O ₄ ·0.33H ₂ O single crystal with active insertion site exposed. <i>Nano Energy</i> , 2019, 56, 884-892.	16.0	55
317	Synthesis and characterization of uniformly dispersed Fe ₃ O ₄ /Fe nanocomposite on porous carbon: application for rechargeable Li-O ₂ batteries. <i>RSC Advances</i> , 2013, 3, 8276.	3.6	54
318	Polysulfides Capture-Copper Additive for Long Cycle Life Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30248-30255.	8.0	54
319	Dynamic study of (De)sodiation in alpha-MnO ₂ nanowires. <i>Nano Energy</i> , 2016, 19, 382-390.	16.0	54
320	Li ₂ S or S-Based Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1801190.	21.0	54
321	Amorphous TiCu-Based Additives for Improving Hydrogen Storage Properties of Magnesium Hydride. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38868-38879.	8.0	54
322	Redox mediators: a shuttle to efficacy in metal-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8746-8764.	10.3	54
323	Excess Li-Ion Storage on Reconstructed Surfaces of Nanocrystals To Boost Battery Performance. <i>Nano Letters</i> , 2017, 17, 6018-6026.	9.1	53
324	Crystal-Growth-Dominated Fabrication of Metal-Organic Frameworks with Orderly Distributed Hierarchical Porosity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2457-2464.	13.8	53

#	ARTICLE	IF	CITATIONS
325	Fundamental Understanding of Water-Induced Mechanisms in LiO_2 Batteries: Recent Developments and Perspectives. <i>Advanced Materials</i> , 2019, 31, e1805602.	21.0	52
326	Theory-guided experimental design in battery materials research. <i>Science Advances</i> , 2022, 8, eabm2422.	10.3	52
327	Demonstration of highly efficient lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4170-4179.	10.3	51
328	Polycation Binders: An Effective Approach toward Lithium Polysulfide Sequestration in Li_2S Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2591-2597.	17.4	51
329	Identify the Removable Substructure in Carbon Activation. <i>Chemistry of Materials</i> , 2017, 29, 7288-7295.	6.7	51
330	A facile recovery process for cathodes from spent lithium iron phosphate batteries by using oxalic acid. <i>CSEE Journal of Power and Energy Systems</i> , 2018, 4, 219-225.	1.1	51
331	Hierarchical design and development of nanostructured trifunctional catalysts for electrochemical oxygen and hydrogen reactions. <i>Nano Energy</i> , 2019, 56, 724-732.	16.0	51
332	Enhanced photocatalytic and photoelectrochemical activities of reduced $\text{TiO}_2/\text{BiOCl}$ heterojunctions. <i>Journal of Power Sources</i> , 2016, 312, 12-22.	7.8	50
333	Selective Growth of a Discontinuous Subnanometer Pd Film on Carbon Defects for LiO_2 Batteries. <i>ACS Energy Letters</i> , 2019, 4, 2782-2786.	17.4	50
334	Designing a hybrid electrode toward high energy density with a staged Li^+ and PF_6^- deintercalation/intercalation mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2815-2823.	7.1	50
335	Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMC-Silicon Full Cell. <i>ACS Energy Letters</i> , 2021, 6, 320-328.	17.4	50
336	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018, 11, 3276-3285.	6.8	49
337	Electrochemically primed functional redox mediator generator from the decomposition of solid state electrolyte. <i>Nature Communications</i> , 2019, 10, 1890.	12.8	49
338	Hydrous Nickel-Iron Turnbull's Blue as a High-Rate and Low-Temperature Proton Electrode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9201-9208.	8.0	49
339	A Dehydrogenation Mechanism of Metal Hydrides Based on Interactions between H^+ and H^- . <i>Inorganic Chemistry</i> , 2006, 45, 8749-8754.	4.0	48
340	Toward Highly Selective Electrochemical CO_2 Reduction using Metal-Free Heteroatom-Doped Carbon. <i>Advanced Science</i> , 2020, 7, 2001002.	11.2	48
341	Nanocolumnar Structured Porous Cu-Sn Thin Film as Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10877-10885.	8.0	47
342	In situ monitoring of discharge/charge processes in LiO_2 batteries by electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2014, 249, 110-117.	7.8	47

#	ARTICLE	IF	CITATIONS
343	Identification and Implications of Lithium Superoxide in O_2 Batteries. ACS Energy Letters, 2018, 3, 1105-1109.	17.4	47
344	Recent Research Progress on Non-aqueous Lithium-Air Batteries from Argonne National Laboratory. Energies, 2013, 6, 6016-6044.	3.1	46
345	Lithium-Rich Nanoscale $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Ni}_{0.13}\text{Co}_{0.13}\text{O}_2$ Cathode Material Prepared by Co-Precipitation Combined Freeze Drying (CP-FD) for Lithium-Ion Batteries. Energy Technology, 2015, 3, 843-850.	3.8	46
346	High-Rate, Durable Sodium-Ion Battery Cathode Enabled by Carbon-Coated Micro-Sized $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Particles with Interconnected Vertical Nanowalls. Advanced Materials Interfaces, 2016, 3, 1500740.	3.7	46
347	Reversible intercalation of methyl viologen as a dicationic charge carrier in aqueous batteries. Nature Communications, 2019, 10, 3227.	12.8	46
348	Deciphering the Atomic Patterns Leading to MnO_2 Polymorphism. Chem, 2019, 5, 1793-1805.	11.7	46
349	Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage. Advanced Functional Materials, 2020, 30, 1910249.	14.9	46
350	In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. Small Methods, 2017, 1, 1700202.	8.6	45
351	Manipulation of an ionic and electronic conductive interface for highly-stable high-voltage cathodes. Nano Energy, 2019, 65, 103988.	16.0	45
352	Reaction inhomogeneity coupling with metal rearrangement triggers electrochemical degradation in lithium-rich layered cathode. Nature Communications, 2021, 12, 5370.	12.8	44
353	Top-Down Li Deposition Pathway Enabled by an Asymmetric Design for Li Composite Electrode. Advanced Energy Materials, 2019, 9, 1901491.	19.5	43
354	Carbon-pore-sheathed cobalt nanoseeds: An exceptional and durable bifunctional catalyst for zinc-air batteries. Nano Energy, 2019, 65, 104051.	16.0	43
355	Recent progress and future perspectives of flexible metal-air batteries. SmartMat, 2021, 2, 519-553.	10.7	43
356	A Novel in situ Template-controlled Route to CuS Nanorods via Transition Metal Liquid Crystals. Chemistry Letters, 2003, 32, 30-31.	1.3	42
357	Effect of Milling Parameters on the Dehydrogenation Properties of the Mg-Ti-H System. Journal of Physical Chemistry C, 2009, 113, 19344-19350.	3.1	42
358	Improve First-Cycle Efficiency and Rate Performance of Layered-Layered $\text{Li}_{1.2}\text{Mn}_{0.6}\text{Ni}_{0.2}\text{O}_2$ Using Oxygen Stabilizing Dopant. ACS Applied Materials & Interfaces, 2015, 7, 16040-16045.	8.0	42
359	A Brief Review of Metallothermic Reduction Reactions for Materials Preparation. Small Methods, 2018, 2, 1800062.	8.6	42
360	A universal method to fabricating porous carbon for Li-O ₂ battery. Nano Energy, 2021, 82, 105782.	16.0	42

#	ARTICLE	IF	CITATIONS
361	Controllable crystalline preferred orientation in Li ⁺ Co ²⁺ Ni ²⁺ Mn oxide cathode thin films for all-solid-state lithium batteries. <i>Nanoscale</i> , 2014, 6, 10611.	5.6	41
362	Lithium Superoxide Hydrolysis and Relevance to Li ⁺ O ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9657-9661.	3.1	41
363	Bipolar Electrodes for Next-Generation Rechargeable Batteries. <i>Advanced Science</i> , 2020, 7, 2001207.	11.2	41
364	Regulation of Surface Defect Chemistry toward Stable Ni-Rich Cathodes. <i>Advanced Materials</i> , 2022, 34, e2200744.	21.0	41
365	Scalable Preparation of Ternary Hierarchical Silicon Oxide-Nickel-Graphite Composites for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2015, 8, 4073-4080.	6.8	40
366	Mg-Enriched Engineered Carbon from Lithium-Ion Battery Anode for Phosphate Removal. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2905-2909.	8.0	40
367	Potassium Prussian blue-coated Li-rich cathode with enhanced lithium ion storage property. <i>Nano Energy</i> , 2020, 75, 104942.	16.0	40
368	Insight into the Catalytic Mechanism of Bimetallic Platinum-Copper Core-Shell Nanostructures for Nonaqueous Oxygen Evolution Reactions. <i>Nano Letters</i> , 2016, 16, 781-785.	9.1	39
369	Rooting MnO ₂ into protonated g-C ₃ N ₄ by intermolecular hydrogen bonding for enduring supercapacitance. <i>Nano Energy</i> , 2020, 77, 105153.	16.0	39
370	Flexible metal-air batteries: An overview. <i>SmartMat</i> , 2021, 2, 123-126.	10.7	39
371	Mild Hydrothermal-Reduction Synthesis and Mössbauer Study of Low-Dimensional Iron Chalcogenide Microcrystals and Single Crystals. <i>Chemistry of Materials</i> , 2001, 13, 3927-3932.	6.7	38
372	Nitrogen-Doped Nanoporous Graphenic Carbon: An Efficient Conducting Support for O ₂ Cathode. <i>ChemNanoMat</i> , 2016, 2, 692-697.	2.8	38
373	<i>In situ</i> study of nucleation and growth dynamics of Au nanoparticles on MoS ₂ nanoflakes. <i>Nanoscale</i> , 2018, 10, 15809-15818.	5.6	38
374	Insights into Structural Evolution of Lithium Peroxides with Reduced Charge Overpotential in Li ⁺ O ₂ System. <i>Advanced Energy Materials</i> , 2019, 9, 1900662.	19.5	38
375	Electronic Structure of Sodium Superoxide Bulk, (100) Surface, and Clusters using Hybrid Density Functional: Relevance for Na ⁺ O ₂ Batteries. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2027-2031.	4.6	37
376	A New Emerging Technology: Na-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900184.	8.6	37
377	Reaction Mechanisms in the Li ₃ AlH ₆ /LiBH ₄ and Al/LiBH ₄ Systems for Reversible Hydrogen Storage. Part 2: Solid-State NMR Studies. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6048-6056.	3.1	36
378	The effect of chromium substitution on improving electrochemical performance of low-cost Fe-Mn based Li-rich layered oxide as cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 245, 898-907.	7.8	36

#	ARTICLE	IF	CITATIONS
379	Stable Nanostructured Cathode with Polycrystalline Li-Deficient $\text{Li}_{0.28}\text{Co}_{0.29}\text{Ni}_{0.30}\text{Mn}_{0.20}\text{O}_2$ for Lithium-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 1281-1287.	9.1	36
380	High-Rate and Long-Term Cycle Stability of Li-S Batteries Enabled by $\text{Li}_2\text{S}/\text{TiO}_2$ -Impregnated Hollow Carbon Nanofiber Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16552-16560.	8.0	36
381	Asymmetric K/Li-Ion Battery Based on Intercalation Selectivity. <i>ACS Energy Letters</i> , 2018, 3, 65-71.	17.4	36
382	Decoupling mass transport and electron transfer by a double-cathode structure of a Li-O ₂ battery with high cyclic stability. <i>Joule</i> , 2022, 6, 381-398.	24.0	36
383	Role of $\text{Cr}^{3+}/\text{Cr}^{6+}$ redox in chromium-substituted $\text{Li}_2\text{MnO}_3 \cdot \text{LiNi}_{1/2}\text{Mn}_{1/2}\text{O}_2$ layered composite cathodes: electrochemistry and voltage fade. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9915-9924.	10.3	35
384	Tuning the Mn Deposition on the Anode to Improve the Cycle Performance of the Mn-Based Lithium Ion Battery. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500856.	3.7	35
385	A Non-aqueous H_3PO_4 Electrolyte Enables Stable Cycling of Proton Electrodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22007-22011.	13.8	35
386	A Lithium Metal Anode Surviving Battery Cycling Above 200 °C. <i>Advanced Materials</i> , 2020, 32, e2000952.	21.0	35
387	Counterintuitive Structural Instability Aroused by Transition Metal Migration in Polyanionic Sodium Ion Host. <i>Advanced Energy Materials</i> , 2021, 11, 2003256.	19.5	35
388	Structural Aspects of P2-type $\text{Na}_{0.67}\text{Mn}_{0.6}\text{Ni}_{0.2}\text{Li}_{0.2}\text{O}_2$ (MNL) Stabilization by Lithium Defects as a Cathode Material for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102939.	14.9	35
389	InP nanocrystals via surfactant-aided hydrothermal synthesis. <i>Journal of Applied Physics</i> , 2004, 95, 3683-3688.	2.5	34
390	Hydrogen Storage Properties of Magnesium Hydride with V-Based Additives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21778-21784.	3.1	34
391	Phase Transformations and Formation of Ultra-Fine Microstructure During Hydrogen Sintering and Phase Transformation (HSPT) Processing of Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 5546-5560.	2.2	34
392	Sodium Peroxide Dihydrate or Sodium Superoxide: The Importance of the Cell Configuration for Sodium-Oxygen Batteries. <i>Small Methods</i> , 2017, 1, 1700102.	8.6	34
393	Heteroatom-Doped Porous Carbon Materials with Unprecedented High Volumetric Capacitive Performance. <i>Angewandte Chemie</i> , 2019, 131, 2419-2423.	2.0	34
394	Theoretical Simulation and Modeling of Three-Dimensional Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100078.	5.6	34
395	Freestanding highly defect nitrogen-enriched carbon nanofibers for lithium ion battery thin-film anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5532-5540.	10.3	33
396	High-Rate Performance and Ultralong Cycle Life Enabled by Hybrid Organic-Inorganic Vanadyl Ethylene Glycolate for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801978.	19.5	33

#	ARTICLE	IF	CITATIONS
397	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. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11623-11631.	10.3	33
398	Single-Layer Particle Electrode Design for Practical Fast-Charging Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, .	21.0	33
399	CdS/CdSe core/sheath nanostructures obtained from CdS nanowires. <i>Chemical Communications</i> , 1999, , 1969-1970.	4.1	32
400	In situ X-ray diffraction study of dehydrogenation of MgH ₂ with Ti-based additives. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 5868-5873.	7.1	32
401	Architecture of Na-O ₂ battery deposits revealed by transmission X-ray microscopy. <i>Nano Energy</i> , 2017, 37, 224-231.	16.0	32
402	Effect of Componential Proportion in Bimetallic Electrocatalysts on the Aprotic Lithium-Oxygen Battery Performance. <i>Advanced Energy Materials</i> , 2018, 8, 1703230.	19.5	32
403	On the P ₂ -Na _x Co _{1-y} (Mn _{2/3} Ni _{1/3}) _y O ₂ Cathode Materials for Sodium-Ion Batteries: Synthesis, Electrochemical Performance, and Redox Processes Occurring during the Electrochemical Cycling. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 488-501.	8.0	32
404	Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-Ion Electrode Densities. <i>Advanced Energy Materials</i> , 2019, 9, 1803390.	19.5	32
405	Encapsulating phosphorus inside carbon nanotubes via a solution approach for advanced lithium ion host. <i>Nano Energy</i> , 2019, 58, 23-29.	16.0	32
406	Understanding the Gap between Academic Research and Industrial Requirements in Rechargeable Zinc-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 60-71.	4.7	32
407	A Safe Low Temperature Route to InAs Nanofibers. <i>Chemistry of Materials</i> , 1999, 11, 2619-2622.	6.7	31
408	Organic-Acid-Assisted Fabrication of Low-Cost Li-Rich Cathode Material (Li[Li _{1/6} Fe _{1/6} Ni _{1/6} Mn _{1/2}] ₂ O ₂) for Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22305-22315.	8.0	31
409	Improving Na-O ₂ batteries with redox mediators. <i>Chemical Communications</i> , 2017, 53, 12008-12011.	4.1	31
410	From Sodium-Oxygen to Sodium-Air Battery: Enabled by Sodium Peroxide Dihydrate. <i>Nano Letters</i> , 2020, 20, 4681-4686.	9.1	31
411	In Situ Localized Polysulfide Injector for the Activation of Bulk Lithium Sulfide. <i>Journal of the American Chemical Society</i> , 2021, 143, 2185-2189.	13.7	31
412	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes. <i>Nano Letters</i> , 2022, 22, 263-270.	9.1	31
413	Impacts of Dissolved Ni ²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	31
414	Directed Self-Assembly of MOF-Derived Nanoparticles toward Hierarchical Structures for Enhanced Catalytic Activity in CO Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1901754.	19.5	30

#	ARTICLE	IF	CITATIONS
415	High Nickel and No Cobalt”€The Pursuit of Next-Generation Layered Oxide Cathodes. ACS Applied Materials & Interfaces, 2022, 14, 23056-23065.	8.0	30
416	Carbon”Free Cathodes: A Step Forward in the Development of Stable Lithium”Oxygen Batteries. ChemSusChem, 2015, 8, 3932-3940.	6.8	29
417	A three-dimensional hierarchical structure of cyclized-PAN/Si/Ni for mechanically stable silicon anodes. Journal of Materials Chemistry A, 2017, 5, 24667-24676.	10.3	29
418	Real-Time TEM Study of Nanopore Evolution in Battery Materials and Their Suppression for Enhanced Cycling Performance. Nano Letters, 2019, 19, 3074-3082.	9.1	29
419	A Critical Review on Superoxide”Based Sodium”Oxygen Batteries. Small Methods, 2019, 3, 1800247.	8.6	29
420	Cation Additive Enabled Rechargeable LiOH”Based Lithium”Oxygen Batteries. Angewandte Chemie - International Edition, 2020, 59, 22978-22982.	13.8	29
421	Tailoring conductive networks within hollow carbon nanospheres to host phosphorus for advanced sodium ion batteries. Nano Energy, 2020, 70, 104569.	16.0	29
422	Nanotechnology for Sulfur Cathodes. ACS Nano, 2021, 15, 8087-8094.	14.6	29
423	Conductive Polymer Binder-Enabled SiO”Sn_x</i></sub>Co_y</i></sub>C_z</i></sub> Anode for High-Energy Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13373-13377.	8.0	28
424	Potassium Salts as Electrolyte Additives in Lithium”Oxygen Batteries. Journal of Physical Chemistry C, 2017, 121, 3822-3829.	3.1	28
425	One-step nonlinear electrochemical synthesis of TexSy@PANI nanorod materials for Li-TexSy battery. Energy Storage Materials, 2019, 16, 31-36.	18.0	28
426	Transferring Liquid Metal to form a Hybrid Solid Electrolyte via a Wettability”Tuning Technology for Lithium”Metal Anodes. Advanced Materials, 2022, 34, e2200181.	21.0	28
427	Enhanced rate performance of LiNi0.5Mn1.5O4 fibers synthesized by electrospinning. Nano Energy, 2015, 15, 616-624.	16.0	27
428	Review”Understanding and Mitigating Some of the Key Factors that Limit Non-Aqueous Lithium-Air Battery Performance. Journal of the Electrochemical Society, 2015, 162, A2439-A2446.	2.9	27
429	Fe₂P-decorated N,P Codoped Carbon Synthesized via Direct Biological Recycling for Endurable Sulfur Encapsulation. ACS Central Science, 2020, 6, 1827-1834.	11.3	27
430	Structure, Composition, Transport Properties, and Electrochemical Performance of the Electrode”Electrolyte Interphase in Non”Aqueous Na”Ion Batteries. Advanced Materials Interfaces, 2022, 9, .	3.7	27
431	Effect of milling intensity on the formation of LiMgN from the dehydrogenation of LiNH2”MgH2 (1:1) mixture. Journal of Power Sources, 2010, 195, 1992-1997.	7.8	26
432	Effect of different processes and Ti/Zn molar ratios on the structure, morphology, and enhanced photoelectrochemical and photocatalytic performance of Ti3+ self-doped titanium”zinc hybrid oxides. Journal of Power Sources, 2015, 285, 449-459.	7.8	26

#	ARTICLE	IF	CITATIONS
433	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. <i>Science Advances</i> , 2022, 8, eabm1899.	10.3	26
434	Understanding the Role of Lithium Iodide in Lithium-Oxygen Batteries. <i>Advanced Materials</i> , 2022, 34, e2106148.	21.0	26
435	Potential and Reaction Mechanism of Li-Mg-Al-Na-H System for Reversible Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16686-16692.	3.1	25
436	Pd nanoparticles on ZnO-passivated porous carbon by atomic layer deposition: an effective electrochemical catalyst for Li-O ₂ battery. <i>Nanotechnology</i> , 2015, 26, 164003.	2.6	25
437	Stability of Catalyzed Magnesium Hydride Nanocrystalline During Hydrogen Cycling. Part II: Microstructure Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22272-22280.	3.1	25
438	The Absence and Importance of Operando Techniques for Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1805609.	21.0	25
439	Exploring new battery knowledge by advanced characterizing technologies. <i>Exploration</i> , 2021, 1, .	11.0	25
440	Li-CO ₂ Batteries: Bamboo-Like Nitrogen-Doped Carbon Nanotube Forests as Durable Metal-Free Catalysts for Self-Powered Flexible Li-CO ₂ Batteries (<i>Adv. Mater.</i> 39/2019). <i>Advanced Materials</i> , 2019, 31, 1970279.	21.0	24
441	Enhancing Oxygen Reduction Activity of Pt-based Electrocatalysts: From Theoretical Mechanisms to Practical Methods. <i>Angewandte Chemie</i> , 2020, 132, 18490-18504.	2.0	24
442	Synthesis and Characterization of Nanoscaled Cerium (IV) Oxide via a Solid-State Mechanochemical Method. <i>Journal of the American Ceramic Society</i> , 2006, 89, 842-847.	3.8	23
443	A disiloxane-functionalized phosphonium-based ionic liquid as electrolyte for lithium-ion batteries. <i>Chemical Communications</i> , 2011, 47, 11969.	4.1	23
444	Magnetism in Lithium-Oxygen Discharge Product. <i>ChemSusChem</i> , 2013, 6, 1196-1202.	6.8	23
445	Metal-Ion Batteries: Open-Structured V ₂ O ₅ Nanoflakes as Highly Reversible Cathode Material for Monovalent and Multivalent Intercalation Batteries (<i>Adv. Energy Mater.</i> 14/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	23
446	Interfaces in rechargeable magnesium batteries. <i>Nanoscale Horizons</i> , 2020, 5, 1467-1475.	8.0	23
447	Potassium-Ion Batteries: Surface Amorphization of Vanadium Dioxide (B) for K-Ion Battery (<i>Adv. Energy Mater.</i> 19/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1901114.	19.5	23
448	Molecular Template Preparation of AgBiS ₂ Nanowhiskers. <i>Chemistry Letters</i> , 2002, 31, 612-613.	1.3	22
449	Low temperature interface-mineralizing route to hollow CuS, CdS, and NiS spheres. <i>Canadian Journal of Chemistry</i> , 2002, 80, 263-268.	1.1	22
450	Scission-template-transportation route to controllably synthesize CdIn ₂ S ₄ nanorods. <i>Journal of Materials Chemistry</i> , 2002, 12, 103-106.	6.7	22

#	ARTICLE	IF	CITATIONS
451	Ultrasonic-assisted co-precipitation to synthesize lithium-rich cathode $\text{Li}_{1.3}\text{Ni}_{0.21}\text{Mn}_{0.64}\text{O}_2$ materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 272, 922-928.	7.8	22
452	Synthesis-Microstructure-Performance Relationship of Layered Transition Metal Oxides as Cathode for Rechargeable Sodium Batteries Prepared by High-Temperature Calcination. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17176-17183.	8.0	22
453	Improvement of Electrochemical Properties of Lithium-Oxygen Batteries Using a Silver Electrode. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15036-15040.	3.1	22
454	In Situ Transmission Electron Microscopy Explores a New Nanoscale Pathway for Direct Gypsum Formation in Aqueous Solution. <i>ACS Applied Nano Materials</i> , 2018, 1, 5430-5440.	5.0	22
455	Strong Graphene 3D Assemblies with High Elastic Recovery and Hardness. <i>Advanced Materials</i> , 2018, 30, e1707424.	21.0	22
456	Correlating Catalyst Design and Discharged Product to Reduce Overpotential in Li-CO_2 Batteries. <i>Small</i> , 2021, 17, e2007760.	10.0	22
457	Engineering epitaxial Al_2O_3 gate dielectric films on 4H-SiC. <i>Journal of Applied Physics</i> , 2007, 102, 104112.	2.5	21
458	Reaction Mechanisms in the $\text{Li}_3\text{AlH}_6/\text{LiBH}_4$ and Al/LiBH_4 Systems for Reversible Hydrogen Storage. Part 1: H Capacity and Role of Al. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6040-6047.	3.1	21
459	Tin(IV) sulfide: Novel nanocrystalline morphologies. <i>Inorganica Chimica Acta</i> , 2011, 374, 627-631.	2.4	21
460	Seeding Iron Trifluoride Nanoparticles on Reduced Graphite Oxide for Lithium-Ion Batteries with Enhanced Loading and Stability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29505-29510.	8.0	21
461	Isothermal hydrogenation kinetics of ball-milled nano-catalyzed magnesium hydride. <i>Materialia</i> , 2019, 5, 100227.	2.7	21
462	Oxygen-Based Anion Redox for Lithium Batteries. <i>Accounts of Chemical Research</i> , 2020, 53, 1436-1444.	15.6	21
463	Unravelling the Nature of the Intrinsic Complex Structure of Binary-Phase Na-Layered Oxides. <i>Advanced Materials</i> , 2022, 34, e2202137.	21.0	21
464	Synthesis of Mg-Decorated Carbon Nanocomposites from MesoCarbon MicroBeads (MCMB) Graphite: Application for Wastewater Treatment. <i>ACS Omega</i> , 2016, 1, 417-423.	3.5	20
465	Systematic study on the discharge product of Pt-based lithium oxygen batteries. <i>Journal of Power Sources</i> , 2016, 332, 96-102.	7.8	20
466	Short Hydrogen Bonds on Reconstructed Nanocrystal Surface Enhance Oxygen Evolution Activity. <i>ACS Catalysis</i> , 2018, 8, 466-473.	11.2	20
467	(S)TEM-EELS as an advanced characterization technique for lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5186-5193.	5.9	20
468	Understanding the charge/discharge mechanisms and passivation reactions in Na-O ₂ batteries. <i>Journal of Power Sources</i> , 2017, 345, 237-246.	7.8	19

#	ARTICLE	IF	CITATIONS
469	Protic and Aprotic Ionic Liquids in Combination with Hard Carbon for Lithium-Ion and Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , 2018, 1, 204-208.	4.7	19
470	In Situ Engineering of Intracellular Hemoglobin for Implantable High-Performance Biofuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6663-6668.	13.8	19
471	An Overview of Engineered Graphene-Based Cathodes: Boosting Oxygen Reduction and Evolution Reactions in Lithium- and Sodium-Oxygen Batteries. <i>ChemSusChem</i> , 2020, 13, 1203-1225.	6.8	19
472	Cu ₅ FeS _{6.5} nanotubes—A new kind of ternary sulfide nanotube. <i>New Journal of Chemistry</i> , 2001, 25, 1359-1361.	2.8	18
473	Isostructural Cd ₃ E ₂ (E = P, As) Microcrystals Prepared via a Hydrothermal Route. <i>Crystal Growth and Design</i> , 2006, 6, 849-853.	3.0	18
474	Nanorod and Nanoparticle Shells in Concentration Gradient Core-Shell Lithium Oxides for Rechargeable Lithium Batteries. <i>ChemSusChem</i> , 2014, 7, 3295-3303.	6.8	18
475	Understanding atomic scale phenomena within the surface layer of a long-term cycled 5 V spinel electrode. <i>Nano Energy</i> , 2016, 19, 297-306.	16.0	18
476	A Four-Electron Sulfur Electrode Hosting a Cu ²⁺ /Cu ⁺ Redox Charge Carrier. <i>Angewandte Chemie</i> , 2019, 131, 12770-12775.	2.0	18
477	Beyond Volume Variation: Anisotropic and Protrusive Lithiation in Bismuth Nanowire. <i>ACS Nano</i> , 2020, 14, 15669-15677.	14.6	18
478	Revealing the Atomic Structures of Exposed Lateral Surfaces for Polymorphic Manganese Dioxide Nanowires. <i>Small Structures</i> , 2021, 2, 2000091.	12.0	18
479	Implications of the Unpaired Spins in Li ⁺ O ₂ Battery Chemistry and Electrochemistry: A Minireview. <i>ChemPlusChem</i> , 2015, 80, 336-343.	2.8	17
480	Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. <i>Nature Communications</i> , 2021, 12, 5661.	12.8	17
481	A safe sonochemical route to iron, cobalt and nickel monoarsenides. <i>Journal of Materials Chemistry</i> , 2001, 11, 3281-3284.	6.7	16
482	Synthesis of Supported Platinum Nanoparticles from Li ⁺ Pt Solid Solution. <i>Journal of the American Chemical Society</i> , 2010, 132, 2151-2153.	13.7	16
483	A general and efficient approach for the construction of RNA oligonucleotides containing a 5 [′] -phosphorothiolate linkage. <i>Nucleic Acids Research</i> , 2011, 39, e31-e31.	14.5	16
484	Uniformly dispersed FeO _x atomic clusters by pulsed arc plasma deposition: An efficient electrocatalyst for improving the performance of Li-O ₂ battery. <i>Nano Research</i> , 2016, 9, 1913-1920.	10.4	16
485	Graphene-Directed Formation of a Nitrogen-Doped Porous Carbon Sheet with High Catalytic Performance for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13508-13514.	3.1	16
486	An Aqueous Dual-Ion Battery Cathode of Mn ₃ O ₄ via Reversible Insertion of Nitrate. <i>Angewandte Chemie</i> , 2019, 131, 5340-5345.	2.0	16

#	ARTICLE	IF	CITATIONS
487	Lithiation-Induced Non-Noble Metal Nanoparticles for Li ⁺ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 811-818.	8.0	16
488	Highly Homogeneous Sodium Superoxide Growth in Na ⁺ Batteries Enabled by a Hybrid Electrolyte. ACS Energy Letters, 2020, 5, 903-909.	17.4	16
489	Structural properties of epitaxial Al_2O_3 (111) thin films on 4H-SiC (0001). Applied Physics Letters, 2007, 90, 061916.	3.3	15
490	High-Capacity Sodium Peroxide Based Na ⁺ Batteries with Low Charge Overpotential via a Nanostructured Catalytic Cathode. ACS Energy Letters, 2018, 3, 276-277.	17.4	15
491	Energy-driven surface evolution in beta-MnO ₂ structures. Nano Research, 2018, 11, 206-215.	10.4	15
492	Exploring the rate dependence of phase evolution in P2-type Na _{2/3} Mn _{0.8} Fe _{0.1} Ti _{0.1} O ₂ . Journal of Materials Chemistry A, 2019, 7, 12115-12125.	10.3	15
493	Solution Blowing Synthesis of Li-Conductive Ceramic Nanofibers. ACS Applied Materials & Interfaces, 2020, 12, 16200-16208.	8.0	15
494	Improved Sodiation Additive and Its Nuances in the Performance Enhancement of Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 11814-11821.	8.0	15
495	The Growth Process, Stability of GaP Nanocrystals and Formation of Ga ₃ P Nanocrystals under Solvothermal Conditions in Benzene. European Journal of Inorganic Chemistry, 2003, 2003, 1822-1827.	2.0	14
496	A Dicyclic Scaffold for Programmed Monocyclic and Polycyclic Polymer Architectures. Macromolecules, 2017, 50, 8907-8915.	4.8	14
497	Hybrid Li-Ion and Li-O ₂ Battery Enabled by Oxyhalogen-Sulfur Electrochemistry. Joule, 2018, 2, 2381-2392.	24.0	14
498	Synthesis of calcium carbonate nanoparticles in erythrocytes enables efficient removal of extracellular lead ions. Communications Chemistry, 2019, 2, .	4.5	14
499	Mild Benzene-Thermal Route to GaP Nanorods and Nanospheres. Inorganic Chemistry, 2002, 41, 1850-1854.	4.0	13
500	Hydrothermal Route to InAs Semiconductor Nanocrystals. Inorganic Chemistry, 2004, 43, 4543-4545.	4.0	13
501	Investigation of the Decomposition Mechanism of Lithium Bis(oxalate)borate (LiBOB) Salt in the Electrolyte of an Aprotic Li ⁺ Battery. Energy Technology, 2014, 2, 348-354.	3.8	13
502	Theoretical Exploration of Various Lithium Peroxide Crystal Structures in a Li-Air Battery. Energies, 2015, 8, 529-548.	3.1	13
503	Iron-Doped Sodium Vanadium Fluorophosphates: Na ₃ V ₂ O ₂ Fe _x (PO ₄) ₂ F _{1-2x} (x < 0.3). Inorganic Chemistry, 2020, 59, 854-862.	3.8	13
504	A Non-aqueous H ₃ PO ₄ Electrolyte Enables Stable Cycling of Proton Electrodes. Angewandte Chemie, 2020, 132, 22191-22195.	2.0	13

#	ARTICLE	IF	CITATIONS
505	Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Na ⁺ Battery Performance. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	13
506	Ultrafast Metal Electrodeposition Revealed by In Situ Optical Imaging and Theoretical Modeling towards Fast-Charging Zn Battery Chemistry. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	13
507	A hybrid method for hydrogen storage and generation from water. <i>Journal of Power Sources</i> , 2007, 172, 853-858.	7.8	12
508	Mass and charge transport relevant to the formation of toroidal lithium peroxide nanoparticles in an aprotic lithium-oxygen battery: An experimental and theoretical modeling study. <i>Nano Research</i> , 2017, 10, 4327-4336.	10.4	12
509	Controlling the Three-Phase Boundary in Na ⁺ -Oxygen Batteries: The Synergy of Carbon Nanofibers and Ionic Liquid. <i>ChemSusChem</i> , 2019, 12, 4054-4063.	6.8	12
510	Novel Lithium-Ion Capacitor Based on TiSb ₂ as Negative Electrode: The Role of Mass Ratio towards High Energy-Power Densities and Long Cyclability. <i>Batteries and Supercaps</i> , 2019, 2, 153-159.	4.7	12
511	Singlet oxygen formation in Na O ₂ battery cathodes catalyzed by ammonium Brønsted acid. <i>Journal of Electroanalytical Chemistry</i> , 2020, 872, 114265.	3.8	12
512	Optimization of oxygen electrode combined with soluble catalyst to enhance the performance of lithium-oxygen battery. <i>Energy Storage Materials</i> , 2020, 28, 73-81.	18.0	12
513	Reduction of selenious acid induced by ultrasonic irradiation—formation of Se nanorods. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 307-310.	8.2	11
514	Modifying the ORR route by the addition of lithium and potassium salts in Na-O ₂ batteries. <i>Electrochimica Acta</i> , 2018, 263, 102-109.	5.2	11
515	Zinc-Air Batteries: Atomic Layer Co ₃ O ₄ Nanosheets: The Key to Knittable Zn-Air Batteries (Small 43/2018). <i>Small</i> , 2018, 14, 1870200.	10.0	11
516	Electrocatalysis: Ultrafine Pt Nanoparticle-Decorated Pyrite-Type CoS ₂ Nanosheet Arrays Coated on Carbon Cloth as a Bifunctional Electrode for Overall Water Splitting (Adv. Energy Mater.) <i>Tj ETQq0 0 0 rg0.5/Overlock 10 Tf 5</i>	8.5	10
517	<i>In Situ</i> Formed Ir ₃ Li Nanoparticles as Active Cathode Material in Li-Oxygen Batteries. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10047-10056.	2.5	11
518	Graphene as Vehicle for Ultrafast Lithium Ion Capacitor Development Based on Recycled Olive Pit Derived Carbons. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2840-A2848.	2.9	11
519	Process Engineering to Increase the Layered Phase Concentration in the Immediate Products of Flame Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26915-26923.	8.0	11
520	A Physical Pulverization Strategy for Preparing a Highly Active Composite of CoO _x and Crushed Graphite for Lithium-Oxygen Batteries. <i>ChemPhysChem</i> , 2014, 15, 2070-2076.	2.1	10
521	Self-Destruction of Cancer Induced by Ag ₂ S Amorphous Nanodots. <i>Small</i> , 2019, 15, 1902945.	10.0	10
522	In Situ Engineering of Intracellular Hemoglobin for Implantable High-Performance Biofuel Cells. <i>Angewandte Chemie</i> , 2019, 131, 6735-6740.	2.0	10

#	ARTICLE	IF	CITATIONS
523	Hydrogenâ€Bonding Reinforced Flexible Composite Electrodes for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2022, 32, 2108003.	14.9	10
524	Thermic conversion of benzene into 6-phenylfulvene with high yield mediated by GaP nanocrystals Electronic supplementary information (ESI) available: MS and ¹³ C NMR spectra of the as-prepared products. See http://www.rsc.org/suppdata/cc/b2/b208076a/ . <i>Chemical Communications</i> , 2002, , 2880-2881.	4.1	9
525	Molecularâ€Level Insights into the Reactivity of Siloxaneâ€Based Electrolytes at a Lithiumâ€Metal Anode. <i>ChemPhysChem</i> , 2014, 15, 2077-2083.	2.1	9
526	Fiber-Shaped Fluidic Nanogenerator with High Power Density for Self-Powered Integrated Electronics. <i>Cell Reports Physical Science</i> , 2020, 1, 100175.	5.6	9
527	Biphasic P ₂ O ₃ -Na ₂ /3</sub>Li_{0.18}Mn_{0.8}Fe_{0.2}O₂: a structural investigation. <i>Dalton Transactions</i> , 2021, 50, 1357-1365.	3.3	9
528	Nanostructured Carbon Composites from Cigarette Filter Wastes and Graphene Oxide Suitable as Electrodes for 3.4â€V Supercapacitors. <i>Batteries and Supercaps</i> , 2021, 4, 1749-1756.	4.7	9
529	Solvothermal Coordinationâ€Reduction Route to Î³-NiSb Nanocrystals at Low Temperature. <i>Journal of Solid State Chemistry</i> , 2000, 155, 42-45.	2.9	8
530	A â€Chemical-Scissors-Assembleâ€Route to Titanium Carbide Nanorods. <i>Chemistry Letters</i> , 2002, 31, 820-821.	1.3	8
531	The effect of heating rate on the reversible hydrogen storage based on reactions of Li ₃ AlH ₆ with LiNH ₂ . <i>Journal of Power Sources</i> , 2008, 185, 1354-1358.	7.8	8
532	An ethyl methyl sulfone co-solvent eliminates macroscopic morphological instabilities of lithium metal anode. <i>Chemical Communications</i> , 2019, 55, 3387-3389.	4.1	8
533	Cation Additive Enabled Rechargeable LiOHâ€Based Lithiumâ€Oxygen Batteries. <i>Angewandte Chemie</i> , 2020, 132, 23178-23182.	2.0	8
534	Atomistic Insights of Irreversible Li⁺ Intercalation in MnO₂ Electrode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
535	On the Road to Sustainable Energy Storage Technologies: Synthesis of Anodes for Na-Ion Batteries from Biowaste. <i>Batteries</i> , 2022, 8, 28.	4.5	8
536	Evidence of Morphological Change in Sulfur Cathodes upon Irradiation by Synchrotron X-rays. <i>ACS Energy Letters</i> , 2022, 7, 577-582.	17.4	7
537	Rigorous solutions of a particle in Î potential fields in phase space. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1022-1026.	2.8	6
538	In-situ interface self-assemblies of nanocrystalline Ag ₂ E (E = S, Se, or Te) via chalcogen directional transfer agents. <i>Journal of Materials Chemistry</i> , 2001, 11, 584-588.	6.7	6
539	Potassium borohydride reducing route to phase-pure nanocrystalline InSb at low temperature. <i>Canadian Journal of Chemistry</i> , 2001, 79, 127-130.	1.1	6
540	Low-Temperature Synthesis of Superconducting Nanocrystalline MgB_2 . <i>Journal of Nanomaterials</i> , 2010, 2010, 1-5.	2.7	6

#	ARTICLE	IF	CITATIONS
541	Reaction: Freezing Electrochemical Interfaces for Robustness in Electron Microscopy. <i>CheM</i> , 2018, 4, 2253-2254.	11.7	6
542	Exploring the charge reactions in a Li^+O_2 system with lithium oxide cathodes and nonaqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15615-15620.	10.3	6
543	Electrodes: Layered P2/O3 Intergrowth Cathode: Toward High Power Na-Ion Batteries (<i>Adv. Energy</i>) Tj ETQq1 1 0.784314 rgBJ /Overlo	19.5	5
544	Electrochemical Energy Storage and Conversion at EEST2016. <i>ACS Energy Letters</i> , 2017, 2, 151-153.	17.4	5
545	Crystal-Growth-Dominated Fabrication of Metal-Organic Frameworks with Orderly Distributed Hierarchical Porosity. <i>Angewandte Chemie</i> , 2020, 132, 2478-2485.	2.0	5
546	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie</i> , 2020, 132, 16868-16877.	2.0	5
547	Mesocrystallizing Nanograins for Enhanced Li + Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2100503.	19.5	5
548	Effluent Particle Size and Permeability of Polyvinylchloride Membranes after Sodium Hypochlorite Exposure. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 712-718.	1.4	4
549	Advanced Lithium Batteries for Automobile Applications at ABAA-9. <i>ACS Energy Letters</i> , 2017, 2, 1628-1631.	17.4	4
550	Zinc-Air Batteries: Atomically Thin Mesoporous Co_3O_4 Layers Strongly Coupled with N-GO Nanosheets as High-Performance Bifunctional Catalysts for 1D Knittable Zinc-Air Batteries (<i>Adv. Mater.</i> 4/2018). <i>Advanced Materials</i> , 2018, 30, 1870027.	21.0	4
551	Freestanding Polymer Crystalline Layers of Subnanometer Order. <i>Macromolecules</i> , 2019, 52, 6018-6024.	4.8	4
552	Precision AABB-type cyclocopolymers <i>via</i> alternating cyclocopolymerization of disiloxane-tethered divinyl monomers. <i>Polymer Chemistry</i> , 2020, 11, 1171-1176.	3.9	4
553	Burning magnesium in carbon dioxide for highly effective phosphate removal. , 2021, 3, 330-337.		4
554	Impacts of Dissolved Ni^{2+} on the Solid Electrolyte Interphase on a Graphite Anode. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
555	γ -Irradiation route to photoluminescent CdS-CdSe with core-shell nanostructures under ambient conditions. <i>Canadian Journal of Chemistry</i> , 2003, 81, 381-384.	1.1	3
556	Microstructural Characterization of Air Electrode Architectures in Lithium-Oxygen Batteries. <i>Microscopy and Microanalysis</i> , 2015, 21, 1373-1374.	0.4	3
557	Study of the Li-Oxygen Battery Discharging and Charging Process using In-situ TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 328-329.	0.4	3
558	Energy Spotlight. <i>ACS Energy Letters</i> , 2020, 5, 1662-1664.	17.4	3

#	ARTICLE	IF	CITATIONS
559	Atomistic Insights of Irreversible Li ⁺ Intercalation in MnO ₂ Electrode. <i>Angewandte Chemie</i> , 2022, 134, e202113420.	2.0	3
560	A Safe Low Temperature Route to Nanocrystalline Transition Metal Arsenides. <i>Chemistry Letters</i> , 2000, 29, 114-115.	1.3	2
561	Electrocatalysts: Highly Efficient Non-Precious Metal Electrocatalysts Prepared from One-Pot Synthesized Zeolitic Imidazolate Frameworks (<i>Adv. Mater.</i> 7/2014). <i>Advanced Materials</i> , 2014, 26, 1092-1092.	21.0	2
562	Microstructural Evolution in Transition-metal-oxide Cathode Materials for Lithium-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2016, 22, 1300-1301.	0.4	2
563	Protocol of Electrochemical Test and Characterization of Aprotic Li-O ₂ Battery. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	2
564	Preface: Forum on New Materials and Approaches for Beyond Li-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4281-4281.	8.0	2
565	Zn Batteries: Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air (<i>Adv. Tj ETQq1 1 0.784314 rgBT /</i>	19.5	2
566	Lithium-Ion Batteries: Interweaving 3D Network Binder for High-Areal-Capacity Si Anode through Combined Hard and Soft Polymers (<i>Adv. Energy Mater.</i> 3/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970009.	19.5	2
567	Lithium Metal Anodes: A Lithium Metal Anode Surviving Battery Cycling Above 200 °C (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Ove	21.0	2
568	Understanding the Effect of Solid Electrocatalysts on Achieving Highly Energy-Efficient Lithium-Oxygen Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100045.	5.8	2
569	Ferric sauce for potassium-ion battery. <i>Nature Sustainability</i> , 2022, 5, 183-184.	23.7	2
570	Efficient Synthesis of N4-Methyl- and N4-Hydroxycytidine Phosphoramidites. <i>Synthesis</i> , 2010, 2010, 2708-2712.	2.3	1
571	R-MnO ₂ nanourchins: a promising catalyst in Li-O ₂ batteries. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1643, 1.	0.1	1
572	Forum on "Characterization Techniques for Li-Ion Batteries and Beyond": Small Methods, 2018, 2, 1800248.	8.6	1
573	Tunnel Intergrowth Structures in Manganese Dioxide and Their Influence on Ion Storage. <i>Microscopy and Microanalysis</i> , 2018, 24, 1500-1501.	0.4	1
574	R ^{1/4} cktitelbild: A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction (<i>Angew.</i>) Tj ETQq0 0.0 rgBT /Overlock 1	2.0	1
575	Lithium-Sulfur Batteries: Deciphering the Reaction Mechanism of Lithium-Sulfur Batteries by In Situ/Operando Synchrotron-Based Characterization Techniques (<i>Adv. Energy Mater.</i> 18/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970062.	19.5	1
576	TEM Studies on the Role of Local Chemistry and Atomic Structure in Battery Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 148-149.	0.4	1

#	ARTICLE	IF	CITATIONS
577	Zinc-Air Batteries: An Iron-Decorated Carbon Aerogel for Rechargeable Flow and Flexible Zn-Air Batteries (Adv. Mater. 32/2020). Advanced Materials, 2020, 32, 2070241.	21.0	1
578	ZnO Nanoparticles Photosensitization Using Ruthenium(II)-polypyridyl Isomeric Complexes. ChemistrySelect, 2020, 5, 2528-2534.	1.5	1
579	The Growth Process, Stability of GaP Nanocrystals and Formation of Ga3P Nanocrystals under Solvothermal Conditions in Benzene.. ChemInform, 2003, 34, no.	0.0	0
580	Dehydrogenation of a Combined LiAlH4/LiNH2 System.. ChemInform, 2006, 37, no.	0.0	0
581	The Potential of Binary Lithium Magnesium Nitride - LiMgN for Hydrogen Storage Application. Materials Research Society Symposia Proceedings, 2007, 1042, 1.	0.1	0
582	Hydrogen Storage Properties of a Combined Li3AlH6-LiBH4 System. Materials Research Society Symposia Proceedings, 2008, 1098, 1.	0.1	0
583	Exploring Lithium-ion Battery Performance through in situ Characterization. Microscopy and Microanalysis, 2015, 21, 1541-1542.	0.4	0
584	Frontispiece: Implications of the Unpaired Spins in Li-O2 Battery Chemistry and Electrochemistry: A Minireview. ChemPlusChem, 2015, 80, n/a-n/a.	2.8	0
585	Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of a-MnCh Nanowires and the Formation of Defective Interface with 2Å-3 and 2Å-4 Tunnel Intergrowth. Microscopy and Microanalysis, 2016, 22, 386-387.	0.4	0
586	Protic and Aprotic Ionic Liquids in Combination with Hard Carbon for Lithium-Ion and Sodium-Ion Batteries. Batteries and Supercaps, 2018, 1, 203-203.	4.7	0
587	Preface: Flexible Energy-Storage Systems. Small, 2018, 14, e1803022.	10.0	0
588	Investigation of the Effect of Graphene-encapsulation on the O2 Release Phenomenon from LixCoO2, Studied by In-situ Heating STEM/EELS. Microscopy and Microanalysis, 2018, 24, 1626-1627.	0.4	0
589	Seeing the Weak Bonding. Matter, 2019, 1, 304-305.	10.0	0
590	Energy Selects. ACS Energy Letters, 2019, 4, 2569-2570.	17.4	0
591	Energy Spotlight. ACS Energy Letters, 2020, 5, 3265-3267.	17.4	0
592	Titelbild: Cation Additive Enabled Rechargeable LiOH-Based Lithium-Oxygen Batteries (Angew. Chem.) Tj ETQq 0 0 0 rBT 0/Overlock	2.0	0
593	Energy Spotlight. ACS Energy Letters, 2020, 5, 1967-1969.	17.4	0
594	Energy Spotlight. ACS Energy Letters, 2020, 5, 938-939.	17.4	0

#	ARTICLE	IF	CITATIONS
595	Energy Spotlight. ACS Energy Letters, 2021, 6, 2983-2984.	17.4	0
596	Outside Back Cover: Volume 2 Issue 4. SmartMat, 2021, 2, .	10.7	0
597	Energy Spotlight. ACS Energy Letters, 2022, 7, 1125-1127.	17.4	0
598	Innenr¼cktitelbild: Impacts of Dissolved Ni ²⁺ on the Solid Electrolyte Interphase on a Graphite Anode (Angew. Chem. 30/2022). Angewandte Chemie, 2022, 134, .	2.0	0