Chunsheng Wang

List of Publications by Year
in descending order

348 papers	62,327 citations	464 130 h-index	959 238 g-index
358 all docs	358 docs citations	358 times ranked	26377 citing authors

#	Article	IF	Citations
1	â€œWater-in-saltâ€•electrolyte enables high-voltage aqueous lithium-ion chemistries. Science, 2015, 350, 938-943.	6.0	2,553
2	Nano- and bulk-silicon-based insertion anodes for lithium-ion secondary cells. Journal of Power Sources, 2007, 163, 1003-1039.	4.0	2,249
3	Highly reversible zinc metal anode for aqueous batteries. Nature Materials, 2018, 17, 543-549.	13.3	2,080
4	Expanded graphite as superior anode for sodium-ion batteries. Nature Communications, 2014, 5, 4033.	5.8	1,472
5	Zn/MnO₂ Battery Chemistry With H⁺ and Zn²⁺ Coinsertion. Journal of the American Chemical Society, 2017, 139, 9775-9778.	6.6	1,375
6	Sulfur-Impregnated Disordered Carbon Nanotubes Cathode for Lithiumâ€“Sulfur Batteries. Nano Letters, 2011, 11, 4288-4294.	4.5	1,210
7	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. Nature Energy, 2019, 4, 187-196.	19.8	1,099
8	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	15.6	964
9	Electrochemical Stability of Li₁₀GeP₂S₁₂ and Li₇La₃Zr₂O₁₂ Solid Electrolytes. Advanced Energy Materials, 2016, 6, 1501590.	10.2	781
10	Electrochemical Performance of Porous Carbon/Tin Composite Anodes for Sodiumâ€Ion and Lithiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 128-133.	10.2	773
11	Anisotropic Swelling and Fracture of Silicon Nanowires during Lithiation. Nano Letters, 2011, 11, 3312-3318.	4.5	691
12	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. CheM, 2018, 4, 174-185.	5.8	682
13	Solvation Structure Design for Aqueous Zn Metal Batteries. Journal of the American Chemical Society, 2020, 142, 21404-21409.	6.6	680
14	Realizing high zinc reversibility in rechargeable batteries. Nature Energy, 2020, 5, 743-749.	19.8	658
15	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	19.8	621
16	Electrospun Sb/C Fibers for a Stable and Fast Sodium-Ion Battery Anode. ACS Nano, 2013, 7, 6378-6386.	7.3	610
17	Designing Dendriteâ€Free Zinc Anodes for Advanced Aqueous Zinc Batteries. Advanced Functional Materials, 2020, 30, 2001263.	7.8	598
18	Aqueous Li-ion battery enabled by halogen conversionâ€“intercalation chemistry in graphite. Nature, 2019, 569, 245-250.	13.7	590

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19	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 7136-7141.	7.2	571
20	Fluorinated interphase enables reversible aqueous zinc battery chemistries. Nature Nanotechnology, 2021, 16, 902-910.	15.6	560
21	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. Nature Energy, 2019, 4, 882-890.	19.8	557
22	New Concepts in Electrolytes. Chemical Reviews, 2020, 120, 6783-6819.	23.0	554
23	A rechargeable zinc-air battery based on zinc peroxide chemistry. Science, 2021, 371, 46-51.	6.0	551
24	Electrochemical Intercalation of Potassium into Graphite. Advanced Functional Materials, 2016, 26, 8103-8110.	7.8	545
25	Uniform Nano-Sn/C Composite Anodes for Lithium Ion Batteries. Nano Letters, 2013, 13, 470-474.	4.5	531
26	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. Science Advances, 2018, 4, eaau9245.	4.7	521
27	â€œWaterâ€inâ€Saltâ€•Electrolyte Makes Aqueous Sodiumâ€Ion Battery Safe, Green, and Longâ€Lasting. Advanced Energy Materials, 2017, 7, 1701189.	10.2	487
28	Advanced Highâ€Voltage Aqueous Lithiumâ€Ion Battery Enabled by â€œWaterâ€inâ€Bisaltâ€•Electrolyte. Angewandte Chemie, 2016, 128, 7252-7257.	1.6	459
29	4.0ÂV Aqueous Li-Ion Batteries. Joule, 2017, 1, 122-132.	11.7	441
30	Comparison of electrochemical performances of olivine NaFePO₄in sodium-ion batteries and olivine LiFePO₄in lithium-ion batteries. Nanoscale, 2013, 5, 780-787.	2.8	420
31	A critical review of cathodes for rechargeable Mg batteries. Chemical Society Reviews, 2018, 47, 8804-8841.	18.7	420
32	Selenium@Mesoporous Carbon Composite with Superior Lithium and Sodium Storage Capacity. ACS Nano, 2013, 7, 8003-8010.	7.3	393
33	High-voltage liquid electrolytes for Li batteries: progress and perspectives. Chemical Society Reviews, 2021, 50, 10486-10566.	18.7	391
34	An Advanced MoS₂/Carbon Anode for High-Performance Sodium-Ion Batteries. Small, 2015, 11, 473-481.	5.2	390
35	Interphase Engineering Enabled All-Ceramic Lithium Battery. Joule, 2018, 2, 497-508.	11.7	378
36	Interdispersed Amorphous MnO_{<i>x</i>}â€“Carbon Nanocomposites with Superior Electrochemical Performance as Lithiumâ€Storage Material. Advanced Functional Materials, 2012, 22, 803-811.	7.8	376

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37	Cyclability study of siliconâ€“carbon composite anodes for lithium-ion batteries using electrochemical impedance spectroscopy. Electrochimica Acta, 2011, 56, 3981-3987.	2.6	374
38	How Solid-Electrolyte Interphase Forms in Aqueous Electrolytes. Journal of the American Chemical Society, 2017, 139, 18670-18680.	6.6	365
39	Red Phosphorusâ€“Single-Walled Carbon Nanotube Composite as a Superior Anode for Sodium Ion Batteries. ACS Nano, 2015, 9, 3254-3264.	7.3	359
40	Extremely stable antimonyâ€“carbon composite anodes for potassium-ion batteries. Energy and Environmental Science, 2019, 12, 615-623.	15.6	358
41	Lithium/Sulfide Allâ€Solidâ€State Batteries using Sulfide Electrolytes. Advanced Materials, 2021, 33, e2000751.	11.1	356
42	An artificial interphase enables reversible magnesium chemistry in carbonate electrolytes. Nature Chemistry, 2018, 10, 532-539.	6.6	347
43	High-Performance All-Solid-State Lithiumâ€“Sulfur Battery Enabled by a Mixed-Conductive Li₂S Nanocomposite. Nano Letters, 2016, 16, 4521-4527.	4.5	333
44	Highâ€Performance Allâ€Solidâ€State Lithiumâ€“Sulfur Batteries Enabled by Amorphous Sulfurâ€Coated Reduced Graphene Oxide Cathodes. Advanced Energy Materials, 2017, 7, 1602923.	10.2	331
45	Identifying the components of the solidâ€“electrolyte interphase in Li-ion batteries. Nature Chemistry, 2019, 11, 789-796.	6.6	331
46	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. Angewandte Chemie - International Edition, 2021, 60, 21310-21318.	7.2	318
47	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 3661-3671.	7.2	317
48	Galvanostatic Intermittent Titration Technique for Phase-Transformation Electrodes. Journal of Physical Chemistry C, 2010, 114, 2830-2841.	1.5	314
49	High-Energy All-Solid-State Lithium Batteries with Ultralong Cycle Life. Nano Letters, 2016, 16, 7148-7154.	4.5	309
50	Uncharted Waters: Super-Concentrated Electrolytes. Joule, 2020, 4, 69-100.	11.7	305
51	Suppressing Li Dendrite Formation in Li₂Sâ€P₂S₅ Solid Electrolyte by LiI Incorporation. Advanced Energy Materials, 2018, 8, 1703644.	10.2	303
52	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. Joule, 2018, 2, 927-937.	11.7	303
53	Progress in Aqueous Rechargeable Sodiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1703008.	10.2	297
54	A Battery Made from a Single Material. Advanced Materials, 2015, 27, 3473-3483.	11.1	291

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55	Tin-Coated Viral Nanoforests as Sodium-Ion Battery Anodes. ACS Nano, 2013, 7, 3627-3634.	7.3	287
56	Hydrophobic Organicâ€Electrolyteâ€Protected Zinc Anodes for Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2020, 59, 19292-19296.	7.2	287
57	Aqueous Mg-Ion Battery Based on Polyimide Anode and Prussian Blue Cathode. ACS Energy Letters, 2017, 2, 1115-1121.	8.8	283
58	Liquid Structure with Nano-Heterogeneity Promotes Cationic Transport in Concentrated Electrolytes. ACS Nano, 2017, 11, 10462-10471.	7.3	283
59	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na,) Tj ETQq1 1 0.784314 rgBT /Ove	8.2	280
60	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. Advanced Functional Materials, 2015, 25, 4312-4320.	7.8	279
61	Pipe-Wire TiO₂â€“Sn@Carbon Nanofibers Paper Anodes for Lithium and Sodium Ion Batteries. Nano Letters, 2017, 17, 3830-3836.	4.5	272
62	In Situ Transmission Electron Microscopy Study of Electrochemical Sodiation and Potassiation of Carbon Nanofibers. Nano Letters, 2014, 14, 3445-3452.	4.5	263
63	Copper-coordinated cellulose ion conductors for solid-state batteries. Nature, 2021, 598, 590-596.	13.7	262
64	A rechargeable aqueous Zn²⁺-battery with high power density and a long cycle-life. Energy and Environmental Science, 2018, 11, 3168-3175.	15.6	258
65	High-Voltage Aqueous Magnesium Ion Batteries. ACS Central Science, 2017, 3, 1121-1128.	5.3	256
66	Micro-sized nano-porous Si/C anodes for lithium ion batteries. Nano Energy, 2015, 11, 490-499.	8.2	253
67	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	5.8	251
68	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electrospray/Electrospinning Technique for Liâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1400753.	10.2	247
69	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. Angewandte Chemie - International Edition, 2021, 60, 13035-13041.	7.2	239
70	Solvation sheath reorganization enables divalent metal batteries with fast interfacial charge transfer kinetics. Science, 2021, 374, 172-178.	6.0	238
71	Virus-Enabled Silicon Anode for Lithium-Ion Batteries. ACS Nano, 2010, 4, 5366-5372.	7.3	228
72	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. ACS Energy Letters, 0, , 1399-1404.	8.8	228

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73	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. Nano Energy, 2018, 53, 958-966.	8.2	227
74	Highâ€Fluorinated Electrolytes for Liâ€“S Batteries. Advanced Energy Materials, 2019, 9, 1803774.	10.2	227
75	Local electronic structure variation resulting in Li â€˜filamentâ€™ formation within solid electrolytes. Nature Materials, 2021, 20, 1485-1490.	13.3	226
76	Enhancing the Reversibility of Mg/S Battery Chemistry through Li⁺ Mediation. Journal of the American Chemical Society, 2015, 137, 12388-12393.	6.6	225
77	Solidâ€State Electrolyte Design for Lithium Dendrite Suppression. Advanced Materials, 2020, 32, e2002741.	11.1	219
78	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 22194-22201.	7.2	219
79	Porous Amorphous FePO₄ Nanoparticles Connected by Single-Wall Carbon Nanotubes for Sodium Ion Battery Cathodes. Nano Letters, 2012, 12, 5664-5668.	4.5	215
80	<i>In Situ</i> Formed Lithium Sulfide/Microporous Carbon Cathodes for Lithium-Ion Batteries. ACS Nano, 2013, 7, 10995-11003.	7.3	215
81	A Rechargeable Al/S Battery with an Ionicâ€Liquid Electrolyte. Angewandte Chemie - International Edition, 2016, 55, 9898-9901.	7.2	215
82	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. Energy and Environmental Science, 2018, 11, 1218-1225.	15.6	212
83	Ionic/Electronic Conducting Characteristics of LiFePO[sub 4] Cathode Materials. Electrochemical and Solid-State Letters, 2007, 10, A65.	2.2	210
84	Critical Review on Lowâ€Temperature Liâ€Ion/Metal Batteries. Advanced Materials, 2022, 34, e2107899.	11.1	204
85	Copperâ€Stabilized Sulfurâ€Microporous Carbon Cathodes for Liâ€“S Batteries. Advanced Functional Materials, 2014, 24, 4156-4163.	7.8	200
86	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	10.2	200
87	Lithium Metal Batteries Enabled by Synergetic Additives in Commercial Carbonate Electrolytes. ACS Energy Letters, 2021, 6, 1839-1848.	8.8	200
88	Electrospun FeS₂@Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. ACS Nano, 2016, 10, 1529-1538.	7.3	199
89	Superior Stable Selfâ€Healing SnP₃ Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500174.	10.2	197
90	A 63 <i>m</i> Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. ACS Energy Letters, 2020, 5, 968-974.	8.8	197

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91	Reactivation of dissolved polysulfides in Liâ€“S batteries based on atomic layer deposition of Al2O3 in nanoporous carbon cloth. Nano Energy, 2013, 2, 1197-1206.	8.2	195
92	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. Journal of the American Chemical Society, 2020, 142, 2438-2447.	6.6	195
93	Stabilizing high voltage LiCoO₂ cathode in aqueous electrolyte with interphase-forming additive. Energy and Environmental Science, 2016, 9, 3666-3673.	15.6	190
94	Self-Assembled Organic Nanowires for High Power Density Lithium Ion Batteries. Nano Letters, 2014, 14, 1596-1602.	4.5	187
95	Grapheneâ€Bonded and â€Encapsulated Si Nanoparticles for Lithium Ion Battery Anodes. Small, 2013, 9, 2810-2816.	5.2	183
96	Electrolytes and Interphases in Potassium Ion Batteries. Advanced Materials, 2021, 33, e2003741.	11.1	181
97	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	7.2	177
98	Solid-State Fabrication of SnS₂/C Nanospheres for High-Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2015, 7, 11476-11481.	4.0	176
99	Flexible Aqueous Liâ€Ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	11.1	175
100	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie - International Edition, 2019, 58, 17820-17826.	7.2	173
101	â€œWater-in-Saltâ€• electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. Journal of Materials Chemistry A, 2016, 4, 6639-6644.	5.2	172
102	Revitalising sodiumâ€“sulfur batteries for non-high-temperature operation: a crucial review. Energy and Environmental Science, 2020, 13, 3848-3879.	15.6	172
103	Identification of LiH and nanocrystalline LiF in the solidâ€“electrolyte interphase of lithium metal anodes. Nature Nanotechnology, 2021, 16, 549-554.	15.6	171
104	Electrochemical impedance study of initial lithium ion intercalation into graphite powders. Electrochimica Acta, 2001, 46, 1793-1813.	2.6	169
105	Azo compounds as a family of organic electrode materials for alkali-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2004-2009.	3.3	168
106	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	11.1	168
107	Self-Templated Formation of P2-type K_{0.6}CoO₂ Microspheres for High Reversible Potassium-Ion Batteries. Nano Letters, 2018, 18, 1522-1529.	4.5	167
108	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO2 Cathode for Li-ion and Li-metal Batteries. Joule, 2019, 3, 2550-2564.	11.7	167

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109	Carbonized Polyacrylonitrileâ€Stabilized SeS_x Cathodes for Long Cycle Life and High Power Density Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 4082-4089.	7.8	165
110	Electrochemical performance of lithium ion battery, nano-silicon-based, disordered carbon composite anodes with different microstructures. Journal of Power Sources, 2004, 125, 206-213.	4.0	161
111	High-Energy Li Metal Battery with Lithiated Host. Joule, 2019, 3, 732-744.	11.7	160
112	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	7.2	159
113	Sponge-like porous carbon/tin composite anode materials for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 9562.	6.7	158
114	Layered P2â€Type K_{0.65}Fe_{0.5}Mn_{0.5}O₂ Microspheres as Superior Cathode for Highâ€Energy Potassiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1800219.	7.8	157
115	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	11.1	156
116	Mn₃O₄ hollow spheres for lithium-ion batteries with high rate and capacity. Journal of Materials Chemistry A, 2014, 2, 4627-4632.	5.2	155
117	Hybrid Mg²⁺/Li⁺ Battery with Long Cycle Life and High Rate Capability. Advanced Energy Materials, 2015, 5, 1401507.	10.2	155
118	A polymer scaffold binder structure for high capacity silicon anode of lithium-ion battery. Chemical Communications, 2010, 46, 1428.	2.2	154
119	Unique aqueous Li-ion/sulfur chemistry with high energy density and reversibility. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6197-6202.	3.3	151
120	An Organic Anode for High Temperature Potassiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1802986.	10.2	151
121	Structure and Interface Design Enable Stable Li-Rich Cathode. Journal of the American Chemical Society, 2020, 142, 8918-8927.	6.6	151
122	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilicâ€“Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 18845-18851.	7.2	150
123	Reversible S⁰/MgS_{<i>x</i>} Redox Chemistry in a MgTFSI₂/MgCl₂/DME Electrolyte for Rechargeable Mg/S Batteries. Angewandte Chemie - International Edition, 2017, 56, 13526-13530.	7.2	149
124	Cathode-Supported All-Solid-State Lithiumâ€“Sulfur Batteries with High Cell-Level Energy Density. ACS Energy Letters, 2019, 4, 1073-1079.	8.8	148
125	Electrolyte/Electrode Interfaces in All-Solid-State Lithium Batteries: A Review. Electrochemical Energy Reviews, 2021, 4, 169-193.	13.1	147
126	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3ÂV Battery. CheM, 2019, 5, 896-912.	5.8	145

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127	Ultrastable All-Solid-State Sodium Rechargeable Batteries. ACS Energy Letters, 2020, 5, 2835-2841.	8.8	142
128	Realizing Complete Solidâ€Solution Reaction in High Sodium Content P2â€Type Cathode for Highâ€Performance Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 14511-14516.	7.2	142
129	Electrolyte design for Li metal-free Li batteries. Materials Today, 2020, 39, 118-126.	8.3	138
130	Carbon scaffold structured silicon anodes for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 5035.	6.7	136
131	Block Copolymer Solid Battery Electrolyte with High Li-Ion Transference Number. Journal of the Electrochemical Society, 2010, 157, A846.	1.3	136
132	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. Nature Communications, 2018, 9, 2324.	5.8	136
133	Carbon coated hollow Na2FePO4F spheres for Na-ion battery cathodes. Journal of Power Sources, 2013, 223, 62-67.	4.0	134
134	Graphene oxide wrapped croconic acid disodium salt for sodium ion battery electrodes. Journal of Power Sources, 2014, 250, 372-378.	4.0	134
135	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1706498.	11.1	134
136	Manipulating electrolyte and solid electrolyte interphase to enable safe and efficient Li-S batteries. Nano Energy, 2018, 50, 431-440.	8.2	134
137	Chargeâ€“discharge stability of graphite anodes for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2001, 497, 33-46.	1.9	133
138	High-Performance All-Inorganic Solid-State Sodiumâ€“Sulfur Battery. ACS Nano, 2017, 11, 4885-4891.	7.3	133
139	Water-Activated VOPO₄ for Magnesium Ion Batteries. Nano Letters, 2018, 18, 6441-6448.	4.5	127
140	Kinetic characteristics of mixed conductive electrodes for lithium ion batteries. Journal of Power Sources, 2007, 164, 849-856.	4.0	126
141	A universal strategy towards highâ€“energy aqueous multivalentâ€“ion batteries. Nature Communications, 2021, 12, 2857.	5.8	126
142	A Patterned 3D Silicon Anode Fabricated by Electrodeposition on a Virus-Structured Current Collector. Advanced Functional Materials, 2011, 21, 380-387.	7.8	125
143	Superior electrochemical performance and structure evolution of mesoporous Fe2O3 anodes for lithium-ion batteries. Nano Energy, 2014, 3, 26-35.	8.2	124
144	Mechanism and Kinetics of HER and OER on NiFe LDH Films in an Alkaline Electrolyte. Journal of the Electrochemical Society, 2018, 165, J3395-J3404.	1.3	123

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145	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. Angewandte Chemie - International Edition, 2018, 57, 11978-11981.	7.2	123
146	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. Nano Energy, 2017, 38, 350-357.	8.2	122
147	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI₂â€“DME Electrolyte. Advanced Materials, 2018, 30, 1704313.	11.1	122
148	Perspectiveâ€"Fluorinating Interphases. Journal of the Electrochemical Society, 2019, 166, A5184-A5186.	1.3	122
149	Aqueous electrolyte design for super-stable 2.5â€‰V LiMn2O4â€‰||â€‰Li4Ti5O12 pouch cells. Nature Energy, 2022, 7, 186-193.	19.8	122
150	Lithiumâ€“tellurium batteries based on tellurium/porous carbon composite. Journal of Materials Chemistry A, 2014, 2, 12201-12207.	5.2	121
151	Ether-based electrolyte enabled Na/FeS2 rechargeable batteries. Electrochemistry Communications, 2015, 54, 18-22.	2.3	121
152	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. Advanced Energy Materials, 2017, 7, 1601578.	10.2	120
153	Electrochemical study on nano-Sn, Li4.4Sn and AlSi0.1 powders used as secondary lithium battery anodes. Journal of Power Sources, 2001, 93, 174-185.	4.0	119
154	In Situ Atomicâ€Scale Imaging of Phase Boundary Migration in FePO₄ Microparticles During Electrochemical Lithiation. Advanced Materials, 2013, 25, 5461-5466.	11.1	119
155	In Situ Sulfur Reduction and Intercalation of Graphite Oxides for Liâ€S Battery Cathodes. Advanced Energy Materials, 2014, 4, 1400482.	10.2	118
156	Hierarchical Three-Dimensional Microbattery Electrodes Combining Bottom-Up Self-Assembly and Top-Down Micromachining. ACS Nano, 2012, 6, 6422-6432.	7.3	116
157	In situ formed carbon bonded and encapsulated selenium composites for Liâ€“Se and Naâ€“Se batteries. Journal of Materials Chemistry A, 2015, 3, 555-561.	5.2	115
158	Bi Nanoparticles Anchored in N-Doped Porous Carbon as Anode of High Energy Density Lithium Ion Battery. Nano-Micro Letters, 2018, 10, 56.	14.4	115
159	Bifunctional Interphase-Enabled Li₁₀GeP₂S₁₂ Electrolytes for Lithiumâ€“Sulfur Battery. ACS Energy Letters, 2021, 6, 862-868.	8.8	115
160	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. Nano Letters, 2019, 19, 538-544.	4.5	113
161	Lithium-Assisted Electrochemical Welding in Silicon Nanowire Battery Electrodes. Nano Letters, 2012, 12, 1392-1397.	4.5	110
162	Critical Factors Dictating Reversibility of the Zinc Metal Anode. Energy and Environmental Materials, 2020, 3, 516-521.	7.3	110

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163	Scalable synthesis of Na₃V₂(PO₄)₃/C porous hollow spheres as a cathode for Na-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10378-10385.	5.2	109
164	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. Advanced Energy Materials, 2018, 8, 1701728.	10.2	107
165	Localized Waterâ€Inâ€Salt Electrolyte for Aqueous Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 19965-19973.	7.2	107
166	Hollow porous nanoparticles with Pt skin on a Agâ€“Pt alloy structure as a highly active electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 8803-8811.	5.2	105
167	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. Accounts of Chemical Research, 2017, 50, 1022-1031.	7.6	105
168	Quaternized poly(methyl methacrylate-co-butyl acrylate-co-vinylbenzyl chloride) membrane for alkaline fuel cells. Journal of Power Sources, 2010, 195, 3765-3771.	4.0	103
169	Spinel LiNi_{0.5}Mn_{1.5}O₄ Cathode for Highâ€Energy Aqueous Lithiumâ€Ion Batteries. Advanced Energy Materials, 2017, 7, 1600922.	10.2	103
170	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie - International Edition, 2018, 57, 8567-8571.	7.2	103
171	High-Performance All-Solid-State Naâ€“S Battery Enabled by Castingâ€“Annealing Technology. ACS Nano, 2018, 12, 3360-3368.	7.3	102
172	A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14712-14720.	3.3	102
173	Waterâ€“Salt Oligomers Enable Supersoluble Electrolytes for Highâ€Performance Aqueous Batteries. Advanced Materials, 2021, 33, e2007470.	11.1	102
174	A tin-plated copper substrate for efficient cycling of lithium metal in an anode-free rechargeable lithium battery. Electrochimica Acta, 2017, 258, 1201-1207.	2.6	102
175	Highâ€Energy Aqueous Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 11943-11948.	7.2	100
176	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. CheM, 2017, 3, 1050-1062.	5.8	99
177	â€œWater-in-Saltâ€• electrolyte enabled LiMn2O4/TiS2 Lithium-ion batteries. Electrochemistry Communications, 2017, 82, 71-74.	2.3	99
178	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. ACS Applied Materials & Interfaces, 2018, 10, 14767-14776.	4.0	99
179	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. Energy and Environmental Science, 2022, 15, 1325-1333.	15.6	98
180	Interfacial Design for a 4.6ÂV Highâ€Voltage Singleâ€Crystalline LiCoO₂ Cathode. Advanced Materials, 2022, 34, e2108353.	11.1	98

#	Article	IF	Citations
181	Batteries: Widening voltage windows. Nature Energy, 2016, 1, .	19.8	97
182	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. Nano Letters, 2015, 15, 7650-7656.	4.5	96
183	Structureâ€"Property Relationships of Organic Electrolytes and Their Effects on Li/S Battery Performance. Advanced Materials, 2017, 29, 1700449.	11.1	96
184	Tailoring Surface Acidity of Metal Oxide for Better Polysulfide Entrapment in Liâ€S Batteries. Advanced Functional Materials, 2016, 26, 7164-7169.	7.8	95
185	P2-type transition metal oxides for high performance Na-ion battery cathodes. Journal of Materials Chemistry A, 2017, 5, 18214-18220.	5.2	93
186	Scalable Synthesis of Defect Abundant Si Nanorods for High-Performance Li-Ion Battery Anodes. ACS Nano, 2015, 9, 6576-6586.	7.3	92
187	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. ACS Applied Materials & Interfaces, 2016, 8, 7147-7155.	4.0	92
188	Nanostructuring versus microstructuring in battery electrodes. Nature Reviews Materials, 2022, 7, 736-746.	23.3	92
189	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. Nano Energy, 2015, 13, 537-545.	8.2	91
190	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. Chemistry of Materials, 2019, 31, 3183-3191.	3.2	91
191	Both cationic and anionic redox chemistry in a P2-type sodium layered oxide. Nano Energy, 2020, 69, 104474.	8.2	91
192	Stabilizing high sulfur loading Liâ€"S batteries by chemisorption of polysulfide on three-dimensional current collector. Nano Energy, 2016, 30, 700-708.	8.2	90
193	Formation of LiFâ€rich Cathodeâ€Electrolyte Interphase by Electrolyte Reduction. Angewandte Chemie - International Edition, 2022, 61, .	7.2	90
194	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. ACS Nano, 2016, 10, 5567-5577.	7.3	88
195	A Highâ€Performance Liâ€"Bâ€"H Electrolyte for Allâ€Solidâ€State Li Batteries. Advanced Functional Materials, 2019, 29, 1809219.	7.8	88
196	Novel CV for Phase Transformation Electrodes. Journal of Physical Chemistry C, 2011, 115, 823-832.	1.5	87
197	Low-Temperature Characterization of Lithium-Ion Carbon Anodes via Microperturbation Measurement. Journal of the Electrochemical Society, 2002, 149, A754.	1.3	86
198	A Discharge Model for Phase Transformation Electrodes:â€‰ Formulation, Experimental Validation, and Analysis. Journal of Physical Chemistry C, 2007, 111, 16656-16663.	1.5	85

#	Article	IF	Citations
199	Insight into the Capacity Fading Mechanism of Amorphous Se₂S₅ Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. Nano Letters, 2016, 16, 2663-2673.	4.5	83
200	A porous siliconâ€"carbon anode with high overall capacity on carbon fiber current collector. Electrochemistry Communications, 2010, 12, 981-984.	2.3	81
201	Activation of Oxygenâ€Stabilized Sulfur for Li and Na Batteries. Advanced Functional Materials, 2016, 26, 745-752.	7.8	80
202	Interface engineering on cathode side for solid garnet batteries. Chemical Engineering Journal, 2020, 387, 124089.	6.6	80
203	In situ healing of dendrites in a potassium metal battery. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5588-5594.	3.3	79
204	Discharge Model for LiFePO[sub 4] Accounting for the Solid Solution Range. Journal of the Electrochemical Society, 2008, 155, A866.	1.3	78
205	Mesoporous carbon/silicon composite anodes with enhanced performance for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 9751-9757.	5.2	78
206	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. Nano Letters, 2020, 20, 4029-4037.	4.5	78
207	Effect of Co content on the kinetic properties of the MlNi4.3â^'XCoXAl0.7 hydride electrodes. Electrochimica Acta, 1999, 44, 3977-3987.	2.6	77
208	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 14801-14807.	4.0	77
209	Grain-boundary-resistance-less Na3SbS4-Se solid electrolytes for all-solid-state sodium batteries. Nano Energy, 2019, 66, 104109.	8.2	77
210	Carbon cage encapsulating nano-cluster Li2S by ionic liquid polymerization and pyrolysis for high performance Liâ€"S batteries. Nano Energy, 2015, 13, 467-473.	8.2	76
211	Sulfur-Embedded FeS₂ as a High-Performance Cathode for Room Temperature All-Solid-State Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 18519-18525.	4.0	76
212	In situ formation of polymer-inorganic solid-electrolyte interphase for stable polymeric solid-state lithium-metal batteries. CheM, 2021, 7, 3052-3068.	5.8	76
213	â€œWater-in-saltâ€•polymer electrolyte for Li-ion batteries. Energy and Environmental Science, 2020, 13, 2878-2887.	15.6	74
214	Kinetic behavior of LiFeMgPO4 cathode material for Li-ion batteries. Journal of Power Sources, 2006, 162, 1289-1296.	4.0	73
215	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. ACS Nano, 2017, 11, 9048-9056.	7.3	73
216	In situ investigation of electrochemical lithium intercalation into graphite powder. Journal of Electroanalytical Chemistry, 2000, 489, 55-67.	1.9	72

#	Article	IF	Citations
217	Mechanism Study on the Interfacial Stability of a Lithium Garnet-Type Oxide Electrolyte against Cathode Materials. ACS Applied Energy Materials, 2018, 1, 5968-5976.	2.5	72
218	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. Nano Letters, 2020, 20, 3880-3888.	4.5	72
219	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. Nature Communications, 2020, 11, 2638.	5.8	71
220	Identifying soft breakdown in all-solid-state lithium battery. Joule, 2022, 6, 1770-1781.	11.7	71
221	Construction of 3D Electronic/Ionic Conduction Networks for Allâ€Solidâ€State Lithium Batteries. Small, 2019, 15, e1905849.	5.2	69
222	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 12438-12445.	7.2	69
223	Interfacial-engineering-enabled practical low-temperature sodium metal battery. Nature Nanotechnology, 2022, 17, 269-277.	15.6	69
224	Architecturing Hierarchical Function Layers on Self-Assembled Viral Templates as 3D Nano-Array Electrodes for Integrated Li-Ion Microbatteries. Nano Letters, 2013, 13, 293-300.	4.5	68
225	Strain accommodation and potential hysteresis of LiFePO4 cathodes during lithium ion insertion/extraction. Journal of Power Sources, 2011, 196, 1442-1448.	4.0	67
226	Bio-inspired Nanoscaled Electronic/Ionic Conduction Networks for Room-Temperature All-Solid-State Sodium-Sulfur Battery. Nano Today, 2020, 33, 100860.	6.2	67
227	Kinetic Behavior of Metal Hydride Electrode by Means of AC Impedance. Journal of the Electrochemical Society, 1998, 145, 1801-1812.	1.3	66
228	Realizing Complete Solidâ€Solution Reaction in High Sodium Content P2â€Type Cathode for Highâ€Performance Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 14619-14624.	1.6	65
229	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. Energy Storage Materials, 2021, 34, 76-84.	9.5	65
230	Nano-structured carbon-coated CuO hollow spheres as stable and high rate anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 15486.	5.2	64
231	In situ synthesis of SnO₂nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 18367-18374.	5.2	64
232	A Rechargeable Al/S Battery with an Ionicâ€Liquid Electrolyte. Angewandte Chemie, 2016, 128, 10052-10055.	1.6	64
233	In situ lithiated FeF3/C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. Journal of Power Sources, 2016, 307, 435-442.	4.0	64
234	Architectural design and fabrication approaches for solid-state batteries. MRS Bulletin, 2018, 43, 775-781.	1.7	64

#	Article	IF	Citations
235	Solidâ€State Lithium/Seleniumâ€"Sulfur Chemistry Enabled via a Robust Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1802235.	10.2	63
236	Solvent-Free Composite PEO-Ceramic Fiber/Mat Electrolytes for Lithium Secondary Cells. Journal of the Electrochemical Society, 2005, 152, A205.	1.3	60
237	Self-assembled Ni/TiO2 nanocomposite anodes synthesized via electroless plating and atomic layer deposition on biological scaffolds. Chemical Communications, 2010, 46, 7349.	2.2	60
238	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 22378-22385.	1.6	60
239	Characterization and Performance of LiFePO[sub 4] Thin-Film Cathodes Prepared with Radio-Frequency Magnetron-Sputter Deposition. Journal of the Electrochemical Society, 2007, 154, A805.	1.3	59
240	Preventing lithium dendrite-related electrical shorting in rechargeable batteries by coating separator with a Li-killing additive. Journal of Materials Chemistry A, 2018, 6, 10755-10760.	5.2	59
241	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. Nano Letters, 2019, 19, 6665-6672.	4.5	59
242	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
243	Reversible S⁰/MgS_{<i>x</i>} Redox Chemistry in a MgTFSI₂/MgCl₂/DME Electrolyte for Rechargeable Mg/S Batteries. Angewandte Chemie, 2017, 129, 13711-13715.	1.6	58
244	Tuning Interface Lithiophobicity for Lithium Metal Solid-State Batteries. ACS Energy Letters, 2022, 7, 131-139.	8.8	56
245	Fuel cell durability enhancement by crosslinking alkaline anion exchange membrane electrolyte. Electrochemistry Communications, 2012, 16, 65-68.	2.3	55
246	Understanding and Calibration of Charge Storage Mechanism in Cyclic Voltammetry Curves. Angewandte Chemie, 2021, 133, 21480-21488.	1.6	55
247	Irreversible capacities of graphite anode for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2002, 519, 9-17.	1.9	53
248	Hoop-Strong Nanotubes for Battery Electrodes. ACS Nano, 2013, 7, 8295-8302.	7.3	52
249	Studies on the electrochemical properties of MlNi4.3âˆ'xCoxAl0.7 hydride alloy electrodes. Journal of Alloys and Compounds, 1999, 293-295, 648-652.	2.8	51
250	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	1.6	51
251	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. ACS Nano, 2018, 12, 5266-5273.	7.3	51
252	An Oxide Ion and Proton Co-Ion Conducting Sn[sub 0.9]In[sub 0.1]P[sub 2]O[sub 7] Electrolyte for Intermediate-Temperature Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B1264.	1.3	50

#	Article	IF	Citations
253	Long cycle life of sodium-ion pouch cell achieved by using multiple electrolyte additives. Journal of Power Sources, 2018, 407, 173-179.	4.0	50
254	Quantifying and Suppressing Proton Intercalation to Enable Highâ€Voltage Znâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2102016.	10.2	48
255	Synergistic Gelation of Silica Nanoparticles and a Sorbitol-Based Molecular Gelator to Yield Highly-Conductive Free-Standing Gel Electrolytes. ACS Applied Materials & Interfaces, 2013, 5, 262-267.	4.0	47
256	A lithiation/delithiation mechanism of monodispersed MSn₅ (M = Fe, Co and FeCo) nanospheres. Journal of Materials Chemistry A, 2015, 3, 7170-7178.	5.2	47
257	Enhanced Electrochemical Performance of Niâ€Rich Layered Cathode Materials by using LiPF₆ as a Cathode Additive. ChemElectroChem, 2019, 6, 1536-1541.	1.7	47
258	Dual-template synthesis of ordered mesoporous carbon/Fe₂O₃nanowires: high porosity and structural stability for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21501-21510.	5.2	46
259	High rate performance of virus enabled 3D n-type Si anodes for lithium-ion batteries. Electrochimica Acta, 2011, 56, 5210-5213.	2.6	45
260	Long Cycle Life All-Solid-State Sodium Ion Battery. ACS Applied Materials & Interfaces, 2018, 10, 39645-39650.	4.0	44
261	An in-situ enabled lithium metal battery by plating lithium on a copper current collector. Electrochemistry Communications, 2018, 89, 23-26.	2.3	42
262	Effect of alloys modified by an alkaline solution containing potassium borohydride on the kinetic properties of MlNi3.7Co0.6Mn0.4Al0.3 hydride electrode. Electrochimica Acta, 1999, 44, 2263-2269.	2.6	41
263	Highly Reversible Conversion-Type FeOF Composite Electrode with Extended Lithium Insertion by Atomic Layer Deposition LiPON Protection. Chemistry of Materials, 2017, 29, 8780-8791.	3.2	41
264	Efficient Water Splitting System Enabled by Multifunctional Platinumâ€Free Electrocatalysts. Advanced Functional Materials, 2021, 31, 2009853.	7.8	41
265	Sodium Alginate Binders for Bivalency Aqueous Batteries. ACS Applied Materials & Interfaces, 2021, 13, 20681-20688.	4.0	41
266	Highly reversible Zn metal anode enabled by sustainable hydroxyl chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	41
267	Elucidation of the Jahn-Teller effect in a pair of sodium isomer. Nano Energy, 2020, 77, 105167.	8.2	40
268	Water-in-salt electrolyte Zn/LiFePO4 batteries. Journal of Electroanalytical Chemistry, 2020, 867, 114193.	1.9	38
269	Novel Low-Temperature Electrolyte Using Isoxazole as the Main Solvent for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 24995-25001.	4.0	38
270	Perspectiveâ€"Electrolyte Design for Aqueous Batteries: From Ultra-High Concentration to Low Concentrationï¼Ÿ. Journal of the Electrochemical Society, 2022, 169, 030530.	1.3	38

#	Article	IF	Citations
271	3D tin anodes prepared by electrodeposition on a virus scaffold. Journal of Power Sources, 2012, 211, 129-132.	4.0	37
272	Reversible Alloying of Phosphorene with Potassium and Its Stabilization Using Reduced Graphene Oxide Buffer Layers. ACS Nano, 2019, 13, 14094-14106.	7.3	36
273	PVP-induced synergistic engineering of interlayer, self-doping, active surface and vacancies in VS4 for enhancing magnesium ions storage and durability. Energy Storage Materials, 2022, 47, 211-222.	9.5	36
274	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	5.2	34
275	High-energy and low-cost membrane-free chlorine flow battery. Nature Communications, 2022, 13, 1281.	5.8	34
276	Self-discharge of secondary lithium-ion graphite anodes. Journal of Power Sources, 2002, 112, 98-104.	4.0	33
277	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 2929-2933.	1.6	33
278	Improvement in electrochemical properties of nano-tin-polyaniline lithium-ion composite anodes by control of electrode microstructure. Journal of Power Sources, 2002, 109, 136-141.	4.0	30
279	Hydrophobic Organicâ€Electrolyteâ€Protected Zinc Anodes for Aqueous Zinc Batteries. Angewandte Chemie, 2020, 132, 19454-19458.	1.6	30
280	Ni (II) Coordination Supramolecular Grids for Aqueous Nickelâ€Zinc Battery Cathodes. Advanced Functional Materials, 2021, 31, 2100443.	7.8	30
281	Understanding LiI-LiBr Catalyst Activity for Solid State Li₂S/S Reactions in an All-Solid-State Lithium Battery. Nano Letters, 2021, 21, 8488-8494.	4.5	30
282	F and N Rich Solid Electrolyte for Stable Allâ€Solidâ€State Battery. Advanced Functional Materials, 2022, 32, .	7.8	30
283	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie, 2018, 130, 8703-8707.	1.6	29
284	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie, 2021, 133, 3705-3715.	1.6	29
285	Elemental Sulfur as a Cathode Additive for Enhanced Rate Capability of Layered Lithium Transition Metal Oxides. Journal of the Electrochemical Society, 2019, 166, A487-A492.	1.3	28
286	The origin of the two-plateaued or one-plateaued open circuit voltage in Liâ€"S batteries. Nano Energy, 2020, 75, 104915.	8.2	28
287	Electrochemical study of the SnO2 lithium-insertion anode using microperturbation techniques. Solid State Ionics, 2002, 147, 13-22.	1.3	27
288	The self-discharge mechanism of AB5AB5-type hydride electrodes in Ni/MH batteries. International Journal of Hydrogen Energy, 2006, 31, 603-611.	3.8	27

#	Article	IF	Citations
289	Tunable Highâ€Molecularâ€Weight Anionâ€Exchange Membranes for Alkaline Fuel Cells. Macromolecular Chemistry and Physics, 2011, 212, 2094-2102.	1.1	27
290	Compositions and Formation Mechanisms of Solid-Electrolyte Interphase on Microporous Carbon/Sulfur Cathodes. Chemistry of Materials, 2020, 32, 3765-3775.	3.2	27
291	Colloidal spray pyrolysis: A new fabrication technology for nanostructured energy storage materials. Energy Storage Materials, 2018, 13, 8-18.	9.5	25
292	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. Nano Energy, 2020, 76, 105041.	8.2	25
293	Antifreezing Zwitterionic-Based Hydrogel Electrolyte for Aqueous Zn Ion Batteries. ACS Applied Energy Materials, 2022, 5, 7530-7537.	2.5	24
294	An Acrylateâ€Polymerâ€Based Electrolyte Membrane for Alkaline Fuel Cell Applications. ChemSusChem, 2011, 4, 1557-1560.	3.6	23
295	Electrochemical compressor driven metal hydride heat pump. International Journal of Refrigeration, 2015, 60, 278-288.	1.8	23
296	The Role of Electron Localization in Covalency and Electrochemical Properties of Lithiumâ€Ion Battery Cathode Materials. Advanced Functional Materials, 2021, 31, 2001633.	7.8	21
297	High-Efficiency Zinc-Metal Anode Enabled by Liquefied Gas Electrolytes. ACS Energy Letters, 2021, 6, 4426-4430.	8.8	21
298	High-Peak-Power Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2003, 150, A493.	1.3	20
299	Gel electrolyte for a 4V flexible aqueous lithium-ion battery. Journal of Power Sources, 2020, 469, 228378.	4.0	20
300	Intrinsic borohydride fuel cell/battery hybrid power sources. Journal of Power Sources, 2006, 161, 753-760.	4.0	19
301	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie, 2019, 131, 17984-17990.	1.6	19
302	Determination of reaction resistances for metal-hydride electrodes during anodic polarization. Journal of Power Sources, 2000, 85, 212-223.	4.0	17
303	How Water Accelerates Bivalent Ion Diffusion at the Electrolyte/Electrode Interface. Angewandte Chemie, 2018, 130, 12154-12157.	1.6	17
304	Design of a Solid Electrolyte Interphase for Aqueous Zn Batteries. Angewandte Chemie, 2021, 133, 13145-13151.	1.6	16
305	Formation of LiFâ€rich Cathodeâ€Electrolyte Interphase by Electrolyte Reduction. Angewandte Chemie, 2022, 134, .	1.6	16
306	In situ synthesis of cadmium germanates ($Cd_2Ge_2O_6$)/reduced graphene oxide nanocomposites as novel high capacity anode materials for advanced lithium-ion batteries. Materials Letters, 2014, 122, 327-330.	1.3	15

#	Article	IF	Citations
307	Suppression of hydrogen evolution at catalytic surfaces in aqueous lithium ion batteries. Journal of Materials Chemistry A, 2020, 8, 14921-14926.	5.2	15
308	Isotope Effect between H₂O and D₂O in Hydrothermal Synthesis. Chemistry of Materials, 2020, 32, 769-775.	3.2	15
309	Experimental study on electrochemical compression of ammonia and carbon dioxide for vapor compression refrigeration system. International Journal of Refrigeration, 2019, 104, 180-188.	1.8	14
310	Revealing Reaction Pathways of Collective Substituted Iron Fluoride Electrode for Lithium Ion Batteries. ACS Nano, 2020, 14, 10276-10283.	7.3	14
311	Operando probing ion and electron transport in porous electrodes. Nano Energy, 2020, 67, 104254.	8.2	13
312	Highâ€Energy Aqueous Sodiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 12050-12055.	1.6	13
313	Hydrogen storage properties of Ml1âˆ'Ca Ni5 pseudobinary intermetallic compounds. Journal of Alloys and Compounds, 1996, 232, 192-196.	2.8	12
314	Influence of amorphization on electrode performances of AB2 type hydrogen storage alloys. Journal of Alloys and Compounds, 1998, 265, 264-268.	2.8	12
315	In Situ Ionic/Electric Conductivity Measurement of La[sub 0.55]Li[sub 0.35]TiO[sub 3] Ceramic at Different Li Insertion Levels. Journal of the Electrochemical Society, 2004, 151, A1196.	1.3	12
316	Electrochemical ammonia compression. Chemical Communications, 2017, 53, 5637-5640.	2.2	12
317	Hybrid Aqueous/Non-aqueous Electrolyte for Safe and High-Energy Li-Ion Batteries. Joule, 2018, 2, 2178.	11.7	12
318	Rational Designed Mixed-Conductive Sulfur Cathodes for All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 36066-36071.	4.0	12
319	Carbon-Nanotube-Encapsulated-Sulfur Cathodes for Lithiumâ€"Sulfur Batteries: Integrated Computational Design and Experimental Validation. Nano Letters, 2022, 22, 441-447.	4.5	12
320	Virus-Assembled Flexible Electrode-Electrolyte Interfaces for Enhanced Polymer-Based Battery Applications. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	11
321	Copolymerization of methyl methacrylate and vinylbenzyl chloride towards alkaline anion exchange membrane for fuel cell applications. Journal of Membrane Science, 2012, 423-424, 209-214.	4.1	11
322	Sodium-Ion Batteries: An Advanced MoS₂/Carbon Anode for High-Performance Sodium-Ion Batteries (Small 4/2015). Small, 2015, 11, 472-472.	5.2	11
323	Functionalized Phosphonium Cations Enable Zinc Metal Reversibility in Aqueous Electrolytes. Angewandte Chemie, 2021, 133, 12546-12553.	1.6	11
324	Highly Reversible Aqueous Zinc Batteries enabled by Zincophilicâ€"Zincophobic Interfacial Layers and Interrupted Hydrogenâ€Bond Electrolytes. Angewandte Chemie, 2021, 133, 18993-18999.	1.6	11

#	Article	IF	Citations
325	Improvement in the cycle life of LaB5 metal hydride electrodes by addition of ZnO to alkaline electrolyte. Electrochimica Acta, 2002, 47, 1069-1078.	2.6	10
326	Improving low-temperature performance of Li-alloy anodes by optimization of the electrolyteâ€"electrode interface. Journal of Power Sources, 2003, 114, 121-126.	4.0	10
327	Criteria for Reliable Electrochemical Impedance Measurements on Li-Ion Battery Anodes. Journal of the Electrochemical Society, 2003, 150, A143.	1.3	10
328	Alkaline Fuel Cell with Intrinsic Energy Storage. Journal of the Electrochemical Society, 2004, 151, A260.	1.3	10
329	Cut-and-stack nanofiber paper toward fast transient energy storage. Inorganic Chemistry Frontiers, 2016, 3, 681-688.	3.0	10
330	Ammonium enables reversible aqueous Zn battery chemistries by tailoring the interphase. One Earth, 2022, 5, 413-421.	3.6	10
331	Characterization of Metal Hydride Electrodes via Microperturbation and In Situ Intrinsic Resistance Measurement. Journal of the Electrochemical Society, 2000, 147, 4432.	1.3	9
332	Comparison of the Electrochemical Impedance Spectroscopy Characteristics of Insertion Electrode Materials Used in Secondary Metal Hydride and Lithium-Ion Electrodes. Journal of the Electrochemical Society, 2001, 148, A762.	1.3	9
333	Efficient and stable cycling of lithium metal enabled by a conductive carbon primer layer. Sustainable Energy and Fuels, 2018, 2, 163-168.	2.5	9
334	Electrochemical performance of patterned LiFePO4 nano-electrode with a pristine amorphous layer. Applied Physics Letters, 2014, 104, .	1.5	8
335	Enhanced Pulse Power Polymer Electrolyte Membrane Fuel Cell Using Internal Hybrid Catalyst Layer Electrodes. Journal of the Electrochemical Society, 2006, 153, A1795.	1.3	7
336	Water Domain Enabled Transport in Polymer Electrolytes for Lithium-Ion Batteries. Macromolecules, 2021, 54, 2882-2891.	2.2	6
337	Localized Waterâ€nâ€Salt Electrolyte for Aqueous Lithiumâ€Ion Batteries. Angewandte Chemie, 2021, 133, 20118-20126.	1.6	6
338	Elastic Modulus Measurements on Large Diameter Nanowires Using a Nano-Assembled Platform. Journal of Nanotechnology in Engineering and Medicine, 2014, 5, .	0.8	5
339	Influence of concentration of KOH solution containing 0.02 M borohydride on the kinetic properties of hydrogen storage alloys. Journal of Alloys and Compounds, 1999, 293-295, 680-683.	2.8	4
340	Nafion-Bimevox Composite Membrane for Fuel Cell Applications. Journal of the Electrochemical Society, 2007, 154, B48.	1.3	3
341	Quality monitoring for resistance spot welding using dynamic signals. , 2009, , .		3
342	Nanostructured Metal Oxides for Li-Ion Batteries. Springer Series in Materials Science, 2012, , 337-363.	0.4	2

#	Article	IF	Citations
343	In-Situ Analytical Transmission Electron Microscopy Study of Electrochemical Lithiation of a Sulfur - Carbon Nanotube Composite Cathode. Microscopy and Microanalysis, 2015, 21, 1513-1514.	0.2	1
344	Bi-layer carbon design for microparticulate silicon anodes. National Science Review, 2021, 8, nwab057.	4.6	1
345	Interface Lithiophobicity Regulation for Lithium Metal Solid-State Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 87-87.	0.0	1
346	Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries. Microscopy and Microanalysis, 2020, 26, 906-908.	0.2	0
347	High Energy and Low-Cost Membrane-Free Chlorine Flow Battery. ECS Meeting Abstracts, 2022, MA2022-01, 488-488.	0.0	0
348	Fast Interfacial Kinetics for Multivalent Metal Batteries Enabled By Solvation Sheath Reorganization. ECS Meeting Abstracts, 2022, MA2022-01, 123-123.	0.0	0