

Dingchang Lin

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional Asymmetric Fabric with Tailored Thermal Conduction and Radiation for Personal Cooling and Warming. <i>Engineering</i> , 2022, 10, 167-173.	3.2	15
2	Liquid electrolyte: The nexus of practical lithium metal batteries. <i>Joule</i> , 2022, 6, 588-616.	11.7	191
3	Rational solvent molecule tuning for high-performance lithium metal battery electrolytes. <i>Nature Energy</i> , 2022, 7, 94-106.	19.8	336
4	Suspension electrolyte with modified Li ⁺ solvation environment for lithium metal batteries. <i>Nature Materials</i> , 2022, 21, 445-454.	13.3	155
5	Scalable, Ultrathin, and High-Temperature-Resistant Solid Polymer Electrolytes for Energy-Dense Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	132
6	Graphene coating on silicon anodes enabled by thermal surface modification for high-energy lithium-ion batteries. <i>MRS Bulletin</i> , 2022, 47, 127-133.	1.7	13
7	Coloured low-emissivity films for building envelopes for year-round energy savings. <i>Nature Sustainability</i> , 2022, 5, 339-347.	11.5	80
8	Formulating energy density for designing practical lithium-sulfur batteries. <i>Nature Energy</i> , 2022, 7, 312-319.	19.8	342
9	Scalable Three-Dimensional Recording Electrodes for Probing Biological Tissues. <i>Nano Letters</i> , 2022, 22, 4552-4559.	4.5	9
10	Cold-Starting All-Solid-State Batteries from Room Temperature by Thermally Modulated Current Collector in Sub-Minute. <i>Advanced Materials</i> , 2022, 34, .	11.1	5
11	Electrical resistance of the current collector controls lithium morphology. <i>Nature Communications</i> , 2022, 13, .	5.8	20
12	Chemomechanics of Rechargeable Batteries: Status, Theories, and Perspectives. <i>Chemical Reviews</i> , 2022, 122, 13043-13107.	23.0	59
13	An X-ray Photoelectron Spectroscopy Primer for Solid Electrolyte Interphase Characterization in Lithium Metal Anodes. <i>ACS Energy Letters</i> , 2022, 7, 2540-2546.	8.8	46
14	Fibrous Materials for Flexible Li-S Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2002580.	10.2	85
15	Organic wastewater treatment by a single-atom catalyst and electrolytically produced H ₂ O ₂ . <i>Nature Sustainability</i> , 2021, 4, 233-241.	11.5	350
16	Correlating Li-Ion Solvation Structures and Electrode Potential Temperature Coefficients. <i>Journal of the American Chemical Society</i> , 2021, 143, 2264-2271.	6.6	44
17	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , 2021, 21, 2074-2080.	4.5	37
18	3D Artificial Solid-Electrolyte Interphase for Lithium Metal Anodes Enabled by Insulator-Metal-Insulator Layered Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2006247.	11.1	147

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19	Efficient Lithium Metal Cycling over a Wide Range of Pressures from an Anion-Derived Solid-Electrolyte Interphase Framework. <i>ACS Energy Letters</i> , 2021, 6, 816-825.	8.8	46
20	A Replacement Reaction Enabled Interdigitated Metal/Solid Electrolyte Architecture for Battery Cycling at 20 mA cm^{-2} and 20 mAh cm^{-2} . <i>Journal of the American Chemical Society</i> , 2021, 143, 3143-3152.	6.6	132
21	Corrosion of lithium metal anodes during calendar ageing and its microscopic origins. <i>Nature Energy</i> , 2021, 6, 487-494.	19.8	124
22	All-Tissue-like Multifunctional Optoelectronic Mesh for Deep-Brain Modulation and Mapping. <i>Nano Letters</i> , 2021, 21, 3184-3190.	4.5	9
23	Dual-Solvent Li ⁺ Ion Solvation Enables High-Performance Li-Metal Batteries. <i>Advanced Materials</i> , 2021, 33, e2008619.	11.1	123
24	Free-standing ultrathin lithium metal-graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , 2021, 6, 790-798.	19.8	198
25	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021, 12, 6122.	5.8	86
26	A Morphologically Stable Li/Electrolyte Interface for All-Solid-State Batteries Enabled by 3D-Micropatterned Garnet. <i>Advanced Materials</i> , 2021, 33, e2104009.	11.1	76
27	Steric Effect Tuned Ion Solvation Enabling Stable Cycling of High-Voltage Lithium Metal Battery. <i>Journal of the American Chemical Society</i> , 2021, 143, 18703-18713.	6.6	205
28	All-Solid-State Lithium-Sulfur Batteries Enhanced by Redox Mediators. <i>Journal of the American Chemical Society</i> , 2021, 143, 18188-18195.	6.6	66
29	Dynamic spatial progression of isolated lithium during battery operations. <i>Nature</i> , 2021, 600, 659-663.	13.7	111
30	High energy density lithium metal batteries enabled by a porous graphene/MgF ₂ framework. <i>Energy Storage Materials</i> , 2020, 26, 73-82.	9.5	79
31	Synergistic enhancement of electrocatalytic CO ₂ reduction to C ₂ oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020, 15, 131-137.	15.6	169
32	A binder-free high silicon content flexible anode for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 848-858.	15.6	245
33	Nickel Impurities in the Solid-Electrolyte Interphase of Lithium-Metal Anodes Revealed by Cryogenic Electron Microscopy. <i>Cell Reports Physical Science</i> , 2020, 1, 100188.	2.8	22
34	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020, 5, 786-793.	19.8	168
35	Microclusters of Kinked Silicon Nanowires Synthesized by a Recyclable Iodide Process for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2020, 10, 2002108.	10.2	57
36	Self-assembled materials for electrochemical energy storage. <i>MRS Bulletin</i> , 2020, 45, 815-822.	1.7	7

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37	Revealing and Elucidating ALD-Derived Control of Lithium Plating Microstructure. <i>Advanced Energy Materials</i> , 2020, 10, 2002736.	10.2	37
38	Design Principles of Artificial Solid Electrolyte Interphases for Lithium-Metal Anodes. <i>Cell Reports Physical Science</i> , 2020, 1, 100119.	2.8	133
39	Opportunities for Cryogenic Electron Microscopy in Materials Science and Nanoscience. <i>ACS Nano</i> , 2020, 14, 9263-9276.	7.3	55
40	Immunizing lithium metal anodes against dendrite growth using protein molecules to achieve high energy batteries. <i>Nature Communications</i> , 2020, 11, 5429.	5.8	129
41	A Cation-Tethered Flowable Polymeric Interface for Enabling Stable Deposition of Metallic Lithium. <i>Journal of the American Chemical Society</i> , 2020, 142, 21393-21403.	6.6	65
42	Underpotential lithium plating on graphite anodes caused by temperature heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29453-29461.	3.3	94
43	Electrode Design with Integration of High Tortuosity and Sulfur-Philicity for High-Performance Lithium-Sulfur Battery. <i>Matter</i> , 2020, 2, 1605-1620.	5.0	83
44	Stretchable electrochemical energy storage devices. <i>Chemical Society Reviews</i> , 2020, 49, 4466-4495.	18.7	209
45	Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries. <i>Nature Energy</i> , 2020, 5, 526-533.	19.8	642
46	A Garnet-Type Solid-Electrolyte-Based Molten Lithium-Molybdenum-Iron(II) Chloride Battery with Advanced Reaction Mechanism. <i>Advanced Materials</i> , 2020, 32, e2000960.	11.1	14
47	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2020, 20, 5496-5503.	4.5	30
48	Resolving Nanoscopic and Mesoscopic Heterogeneity of Fluorinated Species in Battery Solid-Electrolyte Interphases by Cryogenic Electron Microscopy. <i>ACS Energy Letters</i> , 2020, 5, 1128-1135.	8.8	199
49	A New Class of Ionically Conducting Fluorinated Ether Electrolytes with High Electrochemical Stability. <i>Journal of the American Chemical Society</i> , 2020, 142, 7393-7403.	6.6	225
50	Lithium Extraction from Seawater through Pulsed Electrochemical Intercalation. <i>Joule</i> , 2020, 4, 1459-1469.	11.7	152
51	Detection of Micro-Scale Li Dendrite via H ₂ Gas Capture for Early Safety Warning. <i>Joule</i> , 2020, 4, 1714-1729.	11.7	105
52	High-purity electrolytic lithium obtained from low-purity sources using solid electrolyte. <i>Nature Sustainability</i> , 2020, 3, 386-390.	11.5	54
53	A novel battery scheme: Coupling nanostructured phosphorus anodes with lithium sulfide cathodes. <i>Nano Research</i> , 2020, 13, 1383-1388.	5.8	13
54	Mechanical rolling formation of interpenetrated lithium metal/lithium tin alloy foil for ultrahigh-rate battery anode. <i>Nature Communications</i> , 2020, 11, 829.	5.8	246

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55	A Single-Ion Conducting Borate Network Polymer as a Viable Quasi-Solid Electrolyte for Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e1905771.	11.1	121
56	Scalable synthesis of nanoporous silicon microparticles for highly cyclable lithium-ion batteries. <i>Nano Research</i> , 2020, 13, 1558-1563.	5.8	65
57	Advanced Textiles for Personal Thermal Management and Energy. <i>Joule</i> , 2020, 4, 724-742.	11.7	358
58	Tortuosity Effects in Lithium-Metal Host Anodes. <i>Joule</i> , 2020, 4, 938-952.	11.7	150
59	Improving Lithium Metal Composite Anodes with Seeding and Pillaring Effects of Silicon Nanoparticles. <i>ACS Nano</i> , 2020, 14, 4601-4608.	7.3	61
60	Evolution of the Solid-Electrolyte Interphase on Carbonaceous Anodes Visualized by Atomic-Resolution Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 5140-5148.	4.5	132
61	Nanoenabled Direct Contact Interfacing of Syringe-Injectable Mesh Electronics. <i>Nano Letters</i> , 2019, 19, 5818-5826.	4.5	41
62	Self-Selective Catalyst Synthesis for CO ₂ Reduction. <i>Joule</i> , 2019, 3, 1927-1936.	11.7	63
63	Improving cyclability of Li metal batteries at elevated temperatures and its origin revealed by cryo-electron microscopy. <i>Nature Energy</i> , 2019, 4, 664-670.	19.8	336
64	Improved Oxygen Reduction Reaction Activity of Nanostructured CoS ₂ through Electrochemical Tuning. <i>ACS Applied Energy Materials</i> , 2019, 2, 8605-8614.	2.5	42
65	Lithium Metal Anode Materials Design: Interphase and Host. <i>Electrochemical Energy Reviews</i> , 2019, 2, 509-517.	13.1	156
66	Nanodiamonds for energy. , 2019, 1, 13-18.		116
67	Nonpolar Alkanes Modify Lithium-Ion Solvation for Improved Lithium Deposition and Stripping. <i>Advanced Energy Materials</i> , 2019, 9, 1902116.	10.2	86
68	Monolithic solid-electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019, 4, 796-805.	19.8	621
69	A Dynamic, Electrolyte-Blocking, and Single-Ion-Conductive Network for Stable Lithium-Metal Anodes. <i>Joule</i> , 2019, 3, 2761-2776.	11.7	176
70	Nanowires for Electrochemical Energy Storage. <i>Chemical Reviews</i> , 2019, 119, 11042-11109.	23.0	309
71	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. <i>Nature Chemistry</i> , 2019, 11, 382-389.	6.6	180
72	Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 1326-1335.	4.5	193

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73	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. <i>Nature Nanotechnology</i> , 2019, 14, 705-711.	15.6	773
74	Diatomite derived hierarchical hybrid anode for high performance all-solid-state lithium metal batteries. <i>Nature Communications</i> , 2019, 10, 2482.	5.8	96
75	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11364-11368.	7.2	182
76	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2019, 131, 11486-11490.	1.6	72
77	Challenges and opportunities towards fast-charging battery materials. <i>Nature Energy</i> , 2019, 4, 540-550.	19.8	1,053
78	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. <i>ACS Nano</i> , 2019, 13, 6431-6437.	7.3	181
79	An Autotransferable N_3^- Li ⁺ -Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , 2019, 31, e1900342.	11.1	205
80	Fast lithium growth and short circuit induced by localized-temperature hotspots in lithium batteries. <i>Nature Communications</i> , 2019, 10, 2067.	5.8	177
81	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1900858.	10.2	333
82	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019, 5, eaau5655.	4.7	79
83	Design of Red Phosphorus Nanostructured Electrode for Fast-Charging Lithium-Ion Batteries with High Energy Density. <i>Joule</i> , 2019, 3, 1080-1093.	11.7	168
84	Designing polymers for advanced battery chemistries. <i>Nature Reviews Materials</i> , 2019, 4, 312-330.	23.3	579
85	Temperature Regulation in Colored Infrared-Transparent Polyethylene Textiles. <i>Joule</i> , 2019, 3, 1478-1486.	11.7	213
86	Pathways for practical high-energy long-cycling lithium metal batteries. <i>Nature Energy</i> , 2019, 4, 180-186.	19.8	2,101
87	High-Rate and Large-Capacity Lithium Metal Anode Enabled by Volume Conformal and Self-Healable Composite Polymer Electrolyte. <i>Advanced Science</i> , 2019, 6, 1802353.	5.6	133
88	Minimized lithium trapping by isovalent isomorphism for high initial Coulombic efficiency of silicon anodes. <i>Science Advances</i> , 2019, 5, eaax0651.	4.7	122
89	An ultrathin ionomer interphase for high efficiency lithium anode in carbonate based electrolyte. <i>Nature Communications</i> , 2019, 10, 5824.	5.8	62
90	Decoupling of mechanical properties and ionic conductivity in supramolecular lithium ion conductors. <i>Nature Communications</i> , 2019, 10, 5384.	5.8	249

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91	Energy storage: The future enabled by nanomaterials. <i>Science</i> , 2019, 366, .	6.0	1,119
92	Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. <i>Neuron</i> , 2019, 104, 1039-1055.e12.	3.8	396
93	An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1802720.	10.2	83
94	Improving a Mg/S Battery with YCl ₃ Additive and Magnesium Polysulfide. <i>Advanced Science</i> , 2019, 6, 1800981.	5.6	50
95	Practical Challenges and Future Perspectives of All-Solid-State Lithium-Metal Batteries. <i>CheM</i> , 2019, 5, 753-785.	5.8	595
96	Nanostructural and Electrochemical Evolution of the Solid-Electrolyte Interphase on CuO Nanowires Revealed by Cryogenic-Electron Microscopy and Impedance Spectroscopy. <i>ACS Nano</i> , 2019, 13, 737-744.	7.3	78
97	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. <i>Advanced Materials</i> , 2019, 31, e1801993.	11.1	313
98	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018, 1, 105-112.	11.5	370
99	High-efficiency oxygen reduction to hydrogen peroxide catalysed by oxidized carbon materials. <i>Nature Catalysis</i> , 2018, 1, 156-162.	16.1	1,120
100	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 2018, 18, 1130-1138.	4.5	65
101	Vertically Aligned and Continuous Nanoscale Ceramic-Polymer Interfaces in Composite Solid Polymer Electrolytes for Enhanced Ionic Conductivity. <i>Nano Letters</i> , 2018, 18, 3829-3838.	4.5	268
102	A general prelithiation approach for group IV elements and corresponding oxides. <i>Energy Storage Materials</i> , 2018, 10, 275-281.	9.5	94
103	Robust Pinhole-free Li ₃ N Solid Electrolyte Grown from Molten Lithium. <i>ACS Central Science</i> , 2018, 4, 97-104.	5.3	197
104	Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , 2018, 11, 3182-3192.	5.8	54
105	Correlating Structure and Function of Battery Interphases at Atomic Resolution Using Cryoelectron Microscopy. <i>Joule</i> , 2018, 2, 2167-2177.	11.7	284
106	Flexible and stable high-energy lithium-sulfur full batteries with only 100% oversized lithium. <i>Nature Communications</i> , 2018, 9, 4480.	5.8	193
107	Catalyst: How Cryo-EM Shapes the Development of Next-Generation Batteries. <i>CheM</i> , 2018, 4, 2250-2252.	5.8	24
108	Nickel-hydrogen batteries for large-scale energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11694-11699.	3.3	77

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109	Shell-Protective Secondary Silicon Nanostructures as Pressure-Resistant High-Volumetric-Capacity Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2018, 18, 7060-7065.	4.5	121
110	Solubility-mediated sustained release enabling nitrate additive in carbonate electrolytes for stable lithium metal anode. <i>Nature Communications</i> , 2018, 9, 3656.	5.8	371
111	Lithium Electrochemical Tuning for Electrocatalysis. <i>Advanced Materials</i> , 2018, 30, e1800978.	11.1	51
112	A Dual-Crosslinking Design for Resilient Lithium-Ion Conductors. <i>Advanced Materials</i> , 2018, 30, e1804142.	11.1	128
113	Fundamental study on the wetting property of liquid lithium. <i>Energy Storage Materials</i> , 2018, 14, 345-350.	9.5	161
114	An intermediate temperature garnet-type solid electrolyte-based molten lithium battery for grid energy storage. <i>Nature Energy</i> , 2018, 3, 732-738.	19.8	170
115	Stretchable Lithium Metal Anode with Improved Mechanical and Electrochemical Cycling Stability. <i>Joule</i> , 2018, 2, 1857-1865.	11.7	132
116	A Silica-Aerogel-Reinforced Composite Polymer Electrolyte with High Ionic Conductivity and High Modulus. <i>Advanced Materials</i> , 2018, 30, e1802661.	11.1	392
117	Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , 2018, 4, 894-898.	5.3	73
118	Materials for lithium-ion battery safety. <i>Science Advances</i> , 2018, 4, eaas9820.	4.7	958
119	Lithium metal stripping beneath the solid electrolyte interphase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8529-8534.	3.3	150
120	Efficient electrocatalytic CO ₂ reduction on a three-phase interface. <i>Nature Catalysis</i> , 2018, 1, 592-600.	16.1	336
121	Engineering stable interfaces for three-dimensional lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat5168.	4.7	153
122	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018, 30, e1802152.	11.1	362
123	Effects of Polymer Coatings on Electrodeposited Lithium Metal. <i>Journal of the American Chemical Society</i> , 2018, 140, 11735-11744.	6.6	307
124	An Ultrastrong Double-Layer Nanodiamond Interface for Stable Lithium Metal Anodes. <i>Joule</i> , 2018, 2, 1595-1609.	11.7	155
125	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. <i>Energy and Environmental Science</i> , 2017, 10, 580-592.	15.6	421
126	Nanoscale Nucleation and Growth of Electrodeposited Lithium Metal. <i>Nano Letters</i> , 2017, 17, 1132-1139.	4.5	1,081

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127	Electrospun core-shell microfiber separator with thermal-triggered flame-retardant properties for lithium-ion batteries. <i>Science Advances</i> , 2017, 3, e1601978.	4.7	245
128	Sulfiphilic Nickel Phosphosulfide Enabled Li ₂ S Impregnation in 3D Graphene Cages for Li-S Batteries. <i>Advanced Materials</i> , 2017, 29, 1603366.	11.1	139
129	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , 2017, 2, .	19.8	388
130	Core-Shell Nanoparticle Coating as an Interfacial Layer for Dendrite-Free Lithium Metal Anodes. <i>ACS Central Science</i> , 2017, 3, 135-140.	5.3	162
131	Reviving the lithium metal anode for high-energy batteries. <i>Nature Nanotechnology</i> , 2017, 12, 194-206.	15.6	4,804
132	Identifying the Active Surfaces of Electrochemically Tuned LiCoO ₂ for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 6270-6276.	6.6	143
133	Three-dimensional stable lithium metal anode with nanoscale lithium islands embedded in ionically conductive solid matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4613-4618.	3.3	285
134	Thermal Management in Nanofiber-Based Face Mask. <i>Nano Letters</i> , 2017, 17, 3506-3510.	4.5	228
135	Nanoscale perspective: Materials designs and understandings in lithium metal anodes. <i>Nano Research</i> , 2017, 10, 4003-4026.	5.8	130
136	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017, 17, 3731-3737.	4.5	377
137	Enhancing ionic conductivity in composite polymer electrolytes with well-aligned ceramic nanowires. <i>Nature Energy</i> , 2017, 2, .	19.8	763
138	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured Li ₇ La ₃ Zr ₂ O ₁₂ /Carbon Foam and Polymer. <i>Nano Letters</i> , 2017, 17, 2967-2972.	4.5	384
139	Lithium Metal Anodes with an Adaptive Solid-Liquid Interfacial Protective Layer. <i>Journal of the American Chemical Society</i> , 2017, 139, 4815-4820.	6.6	460
140	An Artificial Solid Electrolyte Interphase with High Li ⁺ Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. <i>Advanced Materials</i> , 2017, 29, 1605531.	11.1	747
141	The path towards sustainable energy. <i>Nature Materials</i> , 2017, 16, 16-22.	13.3	3,288
142	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. <i>Science</i> , 2017, 358, 506-510.	6.0	1,039
143	Strong texturing of lithium metal in batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12138-12143.	3.3	188
144	Transition-Metal Single Atoms in a Graphene Shell as Active Centers for Highly Efficient Artificial Photosynthesis. <i>CheM</i> , 2017, 3, 950-960.	5.8	326

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145	Transforming from planar to three-dimensional lithium with flowable interphase for solid lithium metal batteries. <i>Science Advances</i> , 2017, 3, eaao0713.	4.7	131
146	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 11550-11558.	6.6	398
147	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017, 8, 496.	5.8	280
148	Ultra-high current density anodes with interconnected Li metal reservoir through overlithiation of mesoporous AlF ₃ framework. <i>Science Advances</i> , 2017, 3, e1701301.	4.7	199
149	Stretchable Lithium-Ion Batteries Enabled by Device-Scaled Wavy Structure and Elastic Sticky Separator. <i>Advanced Energy Materials</i> , 2017, 7, 1701076.	10.2	158
150	Engineering the surface of LiCoO ₂ electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. <i>Nano Research</i> , 2017, 10, 3754-3764.	5.8	78
151	Design of Complex Nanomaterials for Energy Storage: Past Success and Future Opportunity. <i>Accounts of Chemical Research</i> , 2017, 50, 2895-2905.	7.6	258
152	Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. <i>Science Advances</i> , 2017, 3, eaao3170.	4.7	252
153	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017, 3, e1700895.	4.7	399
154	Revealing Nanoscale Passivation and Corrosion Mechanisms of Reactive Battery Materials in Gas Environments. <i>Nano Letters</i> , 2017, 17, 5171-5178.	4.5	88
155	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017, 12, 993-999.	15.6	376
156	Atomic Layer Deposition of Stable LiAlF ₄ Lithium Ion Conductive Interfacial Layer for Stable Cathode Cycling. <i>ACS Nano</i> , 2017, 11, 7019-7027.	7.3	276
157	Stabilized Li ₃ N for efficient battery cathode prelithiation. <i>Energy Storage Materials</i> , 2017, 6, 119-124.	9.5	143
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