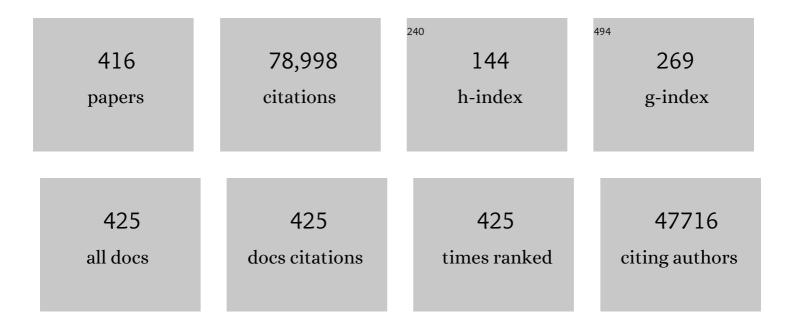
Liangbing Hu

List of Publications by Year in descending order

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LIANCRING HU

#	Article	IF	CITATIONS
1	Stable cycling of double-walled silicon nanotube battery anodes through solid–electrolyte interphase control. Nature Nanotechnology, 2012, 7, 310-315.	15.6	2,144
2	Emerging Transparent Electrodes Based on Thin Films of Carbon Nanotubes, Graphene, and Metallic Nanostructures. Advanced Materials, 2011, 23, 1482-1513.	11.1	1,963
3	Scalable Coating and Properties of Transparent, Flexible, Silver Nanowire Electrodes. ACS Nano, 2010, 4, 2955-2963.	7.3	1,906
4	Negating interfacial impedance in garnet-based solid-state Li metal batteries. Nature Materials, 2017, 16, 572-579.	13.3	1,583
5	Stretchable, Porous, and Conductive Energy Textiles. Nano Letters, 2010, 10, 708-714.	4.5	1,415
6	Interconnected Silicon Hollow Nanospheres for Lithium-Ion Battery Anodes with Long Cycle Life. Nano Letters, 2011, 11, 2949-2954.	4.5	1,278
7	Highly conductive paper for energy-storage devices. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21490-21494.	3.3	1,138
8	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. Chemical Reviews, 2016, 116, 9305-9374.	23.0	1,110
9	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. Science, 2018, 359, 1489-1494.	6.0	1,065
10	Enhancing the Supercapacitor Performance of Graphene/MnO ₂ Nanostructured Electrodes by Conductive Wrapping. Nano Letters, 2011, 11, 4438-4442.	4.5	1,062
11	Processing bulk natural wood into a high-performance structural material. Nature, 2018, 554, 224-228.	13.7	970
12	Carbon Nanotube Thin Films: Fabrication, Properties, and Applications. Chemical Reviews, 2010, 110, 5790-5844.	23.0	889
13	Na-Ion Battery Anodes: Materials and Electrochemistry. Accounts of Chemical Research, 2016, 49, 231-240.	7.6	886
14	A radiative cooling structural material. Science, 2019, 364, 760-763.	6.0	856
15	A transparent electrode based on a metal nanotrough network. Nature Nanotechnology, 2013, 8, 421-425.	15.6	851
16	Challenges and Opportunities for Solar Evaporation. Joule, 2019, 3, 683-718.	11.7	850
17	Potassium Ion Batteries with Graphitic Materials. Nano Letters, 2015, 15, 7671-7677.	4.5	805
18	Thin, Flexible Secondary Li-Ion Paper Batteries. ACS Nano, 2010, 4, 5843-5848.	7.3	785

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#	Article	IF	CITATIONS
19	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7094-7099.	3.3	769
20	Developing fibrillated cellulose as a sustainable technological material. Nature, 2021, 590, 47-56.	13.7	711
21	Plasmonic Wood for Highâ€Efficiency Solar Steam Generation. Advanced Energy Materials, 2018, 8, 1701028.	10.2	701
22	Next-Generation Lithium Metal Anode Engineering <i>via</i> Atomic Layer Deposition. ACS Nano, 2015, 9, 5884-5892.	7.3	700
23	High-Performance Nanostructured Supercapacitors on a Sponge. Nano Letters, 2011, 11, 5165-5172.	4.5	670
24	Electrospun Metal Nanofiber Webs as High-Performance Transparent Electrode. Nano Letters, 2010, 10, 4242-4248.	4.5	660
25	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. Chemical Reviews, 2020, 120, 4257-4300.	23.0	655
26	Toward garnet electrolyte–based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. Science Advances, 2017, 3, e1601659.	4.7	647
27	A Highâ€Performance Selfâ€Regenerating Solar Evaporator for Continuous Water Desalination. Advanced Materials, 2019, 31, e1900498.	11.1	638
28	Structure–property–function relationships of natural and engineered wood. Nature Reviews Materials, 2020, 5, 642-666.	23.3	616
29	Electrospun Sb/C Fibers for a Stable and Fast Sodium-Ion Battery Anode. ACS Nano, 2013, 7, 6378-6386.	7.3	610
30	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. Energy and Environmental Science, 2017, 10, 538-545.	15.6	602
31	Protected Lithiumâ€Metal Anodes in Batteries: From Liquid to Solid. Advanced Materials, 2017, 29, 1701169.	11.1	596
32	Graphene Oxideâ€Based Electrode Inks for 3Dâ€Printed Lithiumâ€ion Batteries. Advanced Materials, 2016, 28, 2587-2594.	11.1	590
33	Highly Flexible and Efficient Solar Steam Generation Device. Advanced Materials, 2017, 29, 1701756.	11.1	584
34	Symmetrical MnO ₂ –Carbon Nanotube–Textile Nanostructures for Wearable Pseudocapacitors with High Mass Loading. ACS Nano, 2011, 5, 8904-8913.	7.3	582
35	Tin Anode for Sodium-Ion Batteries Using Natural Wood Fiber as a Mechanical Buffer and Electrolyte Reservoir. Nano Letters, 2013, 13, 3093-3100.	4.5	556
36	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. Nano Letters, 2017, 17, 565-571.	4.5	556

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37	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. Journal of the American Chemical Society, 2016, 138, 12258-12262.	6.6	548
38	Highly Anisotropic, Highly Transparent Wood Composites. Advanced Materials, 2016, 28, 5181-5187.	11.1	518
39	Reducing Interfacial Resistance between Garnetâ€Structured Solidâ€State Electrolyte and Liâ€Metal Anode by a Germanium Layer. Advanced Materials, 2017, 29, 1606042.	11.1	512
40	3Dâ€Printed, Allâ€inâ€One Evaporator for Highâ€Efficiency Solar Steam Generation under 1 Sun Illumination. Advanced Materials, 2017, 29, 1700981.	11.1	511
41	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. Advanced Materials, 2017, 29, 1702714.	11.1	510
42	Light-Weight Free-Standing Carbon Nanotube-Silicon Films for Anodes of Lithium Ion Batteries. ACS Nano, 2010, 4, 3671-3678.	7.3	507
43	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal–sulfur batteries. Energy and Environmental Science, 2017, 10, 1568-1575.	15.6	499
44	Treeâ€Inspired Design for Highâ€Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	11.1	494
45	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. Energy and Environmental Science, 2019, 12, 1558-1567.	15.6	482
46	Transparent paper: fabrications, properties, and device applications. Energy and Environmental Science, 2014, 7, 269-287.	15.6	457
47	Metal nanogrids, nanowires, and nanofibers for transparent electrodes. MRS Bulletin, 2011, 36, 760-765.	1.7	434
48	Transparent and conductive paper from nanocellulose fibers. Energy and Environmental Science, 2013, 6, 513-518.	15.6	431
49	Highly Thermally Conductive Papers with Percolative Layered Boron Nitride Nanosheets. ACS Nano, 2014, 8, 3606-3613.	7.3	425
50	Novel Nanostructured Paper with Ultrahigh Transparency and Ultrahigh Haze for Solar Cells. Nano Letters, 2014, 14, 765-773.	4.5	419
51	High-capacity, low-tortuosity, and channel-guided lithium metal anode. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3584-3589.	3.3	412
52	Muscleâ€Inspired Highly Anisotropic, Strong, Ionâ€Conductive Hydrogels. Advanced Materials, 2018, 30, e1801934.	11.1	408
53	Thick Electrode Batteries: Principles, Opportunities, and Challenges. Advanced Energy Materials, 2019, 9, 1901457.	10.2	407
54	Highly Transparent and Flexible Nanopaper Transistors. ACS Nano, 2013, 7, 2106-2113.	7.3	401

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55	Organic electrode for non-aqueous potassium-ion batteries. Nano Energy, 2015, 18, 205-211.	8.2	397
56	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. ACS Nano, 2017, 11, 4275-4282.	7.3	392
57	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. Nature Communications, 2019, 10, 4011.	5.8	376
58	Energy and environmental nanotechnology in conductive paper and textiles. Energy and Environmental Science, 2012, 5, 6423.	15.6	374
59	Scalable and Highly Efficient Mesoporous Woodâ€Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. Advanced Functional Materials, 2018, 28, 1707134.	7.8	366
60	Progress in 3D Printing of Carbon Materials for Energyâ€Related Applications. Advanced Materials, 2017, 29, 1603486.	11.1	364
61	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. ACS Nano, 2018, 12, 140-147.	7.3	364
62	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. Chemical Society Reviews, 2016, 45, 6742-6765.	18.7	363
63	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. Joule, 2017, 1, 588-599.	11.7	363
64	Woodâ€Based Nanotechnologies toward Sustainability. Advanced Materials, 2018, 30, 1703453.	11.1	359
65	A general method to synthesize and sinter bulk ceramics in seconds. Science, 2020, 368, 521-526.	6.0	357
66	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. Nature Materials, 2019, 18, 608-613.	13.3	343
67	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. Science Advances, 2018, 4, eaar3724.	4.7	336
68	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. ACS Applied Materials & Interfaces, 2018, 10, 1104-1112.	4.0	327
69	Graphene oxide-based evaporator with one-dimensional water transport enabling high-efficiency solar desalination. Nano Energy, 2017, 41, 201-209.	8.2	316
70	Natural Cellulose Fiber as Substrate for Supercapacitor. ACS Nano, 2013, 7, 6037-6046.	7.3	315
71	A Thermally Conductive Separator for Stable Li Metal Anodes. Nano Letters, 2015, 15, 6149-6154.	4.5	313
72	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. Advanced Energy Materials, 2017, 7, 1601526.	10.2	312

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73	Anomalous scaling law of strength and toughness of cellulose nanopaper. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8971-8976.	3.3	296
74	A strong, biodegradable and recyclable lignocellulosic bioplastic. Nature Sustainability, 2021, 4, 627-635.	11.5	291
75	Paper supercapacitors by a solvent-free drawing method. Energy and Environmental Science, 2011, 4, 3368.	15.6	290
76	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. Energy and Environmental Science, 2012, 5, 5265-5270.	15.6	284
77	Transient Electronics: Materials and Devices. Chemistry of Materials, 2016, 28, 3527-3539.	3.2	284
78	Biodegradable transparent substrates for flexible organic-light-emitting diodes. Energy and Environmental Science, 2013, 6, 2105.	15.6	281
79	High temperature shockwave stabilized single atoms. Nature Nanotechnology, 2019, 14, 851-857.	15.6	278
80	Nanocellulose as green dispersant for two-dimensional energy materials. Nano Energy, 2015, 13, 346-354.	8.2	270
81	3Dâ€Printed Allâ€Fiber Liâ€lon Battery toward Wearable Energy Storage. Advanced Functional Materials, 2017, 27, 1703140.	7.8	270
82	Copper-coordinated cellulose ion conductors for solid-state batteries. Nature, 2021, 598, 590-596.	13.7	262
83	Three-Dimensional Printed Thermal Regulation Textiles. ACS Nano, 2017, 11, 11513-11520.	7.3	261
84	Ultraâ€Thick, Lowâ€Tortuosity, and Mesoporous Wood Carbon Anode for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1600377.	10.2	257
85	Highâ€₽erformance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. Advanced Energy Materials, 2018, 8, 1701616.	10.2	255
86	Nanocellulose toward Advanced Energy Storage Devices: Structure and Electrochemistry. Accounts of Chemical Research, 2018, 51, 3154-3165.	7.6	251
87	Continuous plating/stripping behavior of solid-state lithium metal anode in a 3D ion-conductive framework. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3770-3775.	3.3	250
88	Garnet Solid Electrolyte Protected Li-Metal Batteries. ACS Applied Materials & Interfaces, 2017, 9, 18809-18815.	4.0	247
89	Scalable and Sustainable Approach toward Highly Compressible, Anisotropic, Lamellar Carbon Sponge. CheM, 2018, 4, 544-554.	5.8	246
90	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. Nano Letters, 2017, 17, 3792-3797.	4.5	243

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91	Extrusionâ€Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. Advanced Materials, 2018, 30, e1705651.	11.1	241
92	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. Science, 2022, 376, eabn3103.	6.0	239
93	MWCNT/V ₂ O ₅ Core/Shell Sponge for High Areal Capacity and Power Density Li-Ion Cathodes. ACS Nano, 2012, 6, 7948-7955.	7.3	236
94	3Dâ€Printing Electrolytes for Solidâ€State Batteries. Advanced Materials, 2018, 30, e1707132.	11.1	236
95	Transparent lithium-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13013-13018.	3.3	234
96	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. Materials Today, 2019, 22, 50-57.	8.3	233
97	Lithiumâ€lon Textile Batteries with Large Areal Mass Loading. Advanced Energy Materials, 2011, 1, 1012-1017.	10.2	230
98	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. Advanced Energy Materials, 2016, 6, 1601122.	10.2	228
99	Transient Behavior of the Metal Interface in Lithium Metal–Garnet Batteries. Angewandte Chemie - International Edition, 2017, 56, 14942-14947.	7.2	227
100	Highâ€Entropy Metal Sulfide Nanoparticles Promise Highâ€Performance Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2002887.	10.2	226
101	Transparent nanopaper with tailored optical properties. Nanoscale, 2013, 5, 3787.	2.8	223
102	Transparent and haze wood composites for highly efficient broadband light management in solar cells. Nano Energy, 2016, 26, 332-339.	8.2	222
103	Silicon–Carbon Nanotube Coaxial Sponge as Liâ€ion Anodes with High Areal Capacity. Advanced Energy Materials, 2011, 1, 523-527.	10.2	220
104	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. Matter, 2020, 2, 390-403.	5.0	216
105	Porous Amorphous FePO ₄ Nanoparticles Connected by Single-Wall Carbon Nanotubes for Sodium Ion Battery Cathodes. Nano Letters, 2012, 12, 5664-5668.	4.5	215
106	Electrode Materials of Sodium-Ion Batteries toward Practical Application. ACS Energy Letters, 2018, 3, 1604-1612.	8.8	214
107	Approaching the limits of transparency and conductivity in graphitic materials through lithium intercalation. Nature Communications, 2014, 5, 4224.	5.8	213
108	Scalable Holey Graphene Synthesis and Dense Electrode Fabrication toward High-Performance Ultracapacitors. ACS Nano, 2014, 8, 8255-8265.	7.3	212

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109	Highly Conductive, Lightweight, Lowâ€Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. Advanced Energy Materials, 2017, 7, 1700595.	10.2	210
110	Narrow bandgap semiconductor decorated wood membrane for high-efficiency solar-assisted water purification. Journal of Materials Chemistry A, 2018, 6, 18839-18846.	5.2	208
111	Lignin as a Woodâ€Inspired Binder Enabled Strong, Water Stable, and Biodegradable Paper for Plastic Replacement. Advanced Functional Materials, 2020, 30, 1906307.	7.8	208
112	Interface Engineering for Garnetâ€Based Solidâ€State Lithiumâ€Metal Batteries: Materials, Structures, and Characterization. Advanced Materials, 2018, 30, e1802068.	11.1	204
113	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. Advanced Materials, 2017, 29, 1606284.	11.1	202
114	A Strong, Tough, and Scalable Structural Material from Fastâ€Growing Bamboo. Advanced Materials, 2020, 32, e1906308.	11.1	202
115	A carbon-based 3D current collector with surface protection for Li metal anode. Nano Research, 2017, 10, 1356-1365.	5.8	200
116	Nanostructured paper for flexible energy and electronic devices. MRS Bulletin, 2013, 38, 320-325.	1.7	199
117	Aqueous supercapacitors on conductive cotton. Nano Research, 2010, 3, 452-458.	5.8	197
118	3D Wettable Framework for Dendriteâ€Free Alkali Metal Anodes. Advanced Energy Materials, 2018, 8, 1800635.	10.2	196
119	Reactivation of dissolved polysulfides in Li–S batteries based on atomic layer deposition of Al2O3 in nanoporous carbon cloth. Nano Energy, 2013, 2, 1197-1206.	8.2	195
120	Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64.	13.7	193
121	Atomic-Layer-Deposition Oxide Nanoglue for Sodium Ion Batteries. Nano Letters, 2014, 14, 139-147.	4.5	191
122	Flexible, Scalable, and Highly Conductive Garnetâ€Polymer Solid Electrolyte Templated by Bacterial Cellulose. Advanced Energy Materials, 2018, 8, 1703474.	10.2	189
123	An Electron/Ion Dualâ€Conductive Alloy Framework for Highâ€Rate and Highâ€Capacity Solidâ€State Lithiumâ€Metal Batteries. Advanced Materials, 2019, 31, e1804815.	11.1	188
124	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. Nano Letters, 2016, 16, 3616-3623.	4.5	187
125	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. Advanced Energy Materials, 2018, 8, 1701963.	10.2	186
126	Super‧trong, Super‧tiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. Advanced Materials, 2017, 29, 1702498.	11.1	185

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127	Printed energy storage devices by integration of electrodes and separators into single sheets of paper. Applied Physics Letters, 2010, 96, .	1.5	184
128	Reduced graphene oxide film with record-high conductivity and mobility. Materials Today, 2018, 21, 186-192.	8.3	182
129	Scalable aesthetic transparent wood for energy efficient buildings. Nature Communications, 2020, 11, 3836.	5.8	180
130	A cellulose based hydrophilic, oleophobic hydrated filter for water/oil separation. Chemical Communications, 2014, 50, 13296-13299.	2.2	178
131	Three-Dimensional, Solid-State Mixed Electron–Ion Conductive Framework for Lithium Metal Anode. Nano Letters, 2018, 18, 3926-3933.	4.5	175
132	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. ACS Nano, 2019, 13, 4843-4853.	7.3	174
133	Optical haze of transparent and conductive silver nanowire films. Nano Research, 2013, 6, 461-468.	5.8	173
134	Flexible Batteries: From Mechanics to Devices. ACS Energy Letters, 2016, 1, 1065-1079.	8.8	170
135	Si nanoparticle-decorated Si nanowire networks for Li-ion battery anodes. Chemical Communications, 2011, 47, 367-369.	2.2	166
136	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. Advanced Energy Materials, 2018, 8, 1802398.	10.2	163
137	Three-Dimensional Printable High-Temperature and High-Rate Heaters. ACS Nano, 2016, 10, 5272-5279.	7.3	161
138	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. ACS Nano, 2016, 10, 1369-1377.	7.3	161
139	Hierarchically Porous, Ultrathick, "Breathable―Woodâ€Đerived Cathode for Lithiumâ€Oxygen Batteries. Advanced Energy Materials, 2018, 8, 1701203.	10.2	161
140	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. Advanced Functional Materials, 2017, 27, 1701450.	7.8	160
141	Low temperature carbonization of cellulose nanocrystals for high performance carbon anode of sodium-ion batteries. Nano Energy, 2017, 33, 37-44.	8.2	159
142	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. Science Advances, 2020, 6, eaaz0510.	4.7	158
143	<i>In Situ</i> Neutron Depth Profiling of Lithium Metal–Garnet Interfaces for Solid State Batteries. Journal of the American Chemical Society, 2017, 139, 14257-14264.	6.6	154
144	Denary oxide nanoparticles as highly stable catalysts for methane combustion. Nature Catalysis, 2021, 4, 62-70.	16.1	153

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145	Enabling High-Areal-Capacity Lithium–Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. ACS Nano, 2017, 11, 4801-4807.	7.3	151
146	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. Advanced Functional Materials, 2015, 25, 2920-2927.	7.8	150
147	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. Science Advances, 2019, 5, eaau4238.	4.7	148
148	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. ACS Applied Materials & Interfaces, 2016, 8, 2204-2210.	4.0	146
149	FeS ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, Highâ€Performance Electrocatalysts. Advanced Energy Materials, 2017, 7, 1700482.	10.2	144
150	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. Advanced Functional Materials, 2018, 28, 1707491.	7.8	142
151	A perylene anhydride crystal as a reversible electrode for K-ion batteries. Energy Storage Materials, 2016, 2, 63-68.	9.5	141
152	Superflexible Wood. ACS Applied Materials & amp; Interfaces, 2017, 9, 23520-23527.	4.0	141
153	Clear Wood toward High-Performance Building Materials. ACS Nano, 2019, 13, 9993-10001.	7.3	138
154	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. Science, 2021, 374, 465-471.	6.0	137
155	High Temperature Carbonized Grass as a High Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2017, 9, 391-397.	4.0	136
156	3Dâ€Printed Graphene Oxide Framework with Thermal Shock Synthesized Nanoparticles for Li O ₂ Batteries. Advanced Functional Materials, 2018, 28, 1805899.	7.8	135
157	Lithium-ion conductive ceramic textile: A new architecture for flexible solid-state lithium metal batteries. Materials Today, 2018, 21, 594-601.	8.3	134
158	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. Energy and Environmental Science, 2021, 14, 5347-5357.	15.6	133
159	Ultrahigh-Capacity Lithium–Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. Nano Letters, 2017, 17, 3252-3260.	4.5	132
160	Silver nanowire transparent conducting paper-based electrode with high optical haze. Journal of Materials Chemistry C, 2014, 2, 1248-1254.	2.7	131
161	Celluloseâ€Nanofiberâ€Enabled 3D Printing of a Carbonâ€Nanotube Microfiber Network. Small Methods, 2017, 1, 1700222.	4.6	130
162	Transient, <i>in situ</i> synthesis of ultrafine ruthenium nanoparticles for a high-rate Li–CO ₂ battery. Energy and Environmental Science, 2019, 12, 1100-1107.	15.6	129

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163	Dense, Selfâ€Formed Char Layer Enables a Fireâ€Retardant Wood Structural Material. Advanced Functional Materials, 2019, 29, 1807444.	7.8	125
164	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. Advanced Functional Materials, 2020, 30, 1907511.	7.8	124
165	Highly transparent paper with tunable haze for green electronics. Energy and Environmental Science, 2014, 7, 3313-3319.	15.6	123
166	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23291-23296.	4.0	123
167	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. Nature Communications, 2016, 7, 12332.	5.8	123
168	From Wood to Textiles: Topâ€Down Assembly of Aligned Cellulose Nanofibers. Advanced Materials, 2018, 30, e1801347.	11.1	121
169	Natureâ€Inspired Triâ€Pathway Design Enabling Highâ€Performance Flexible Li–O ₂ Batteries. Advanced Energy Materials, 2019, 9, 1802964.	10.2	121
170	High-throughput, combinatorial synthesis of multimetallic nanoclusters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6316-6322.	3.3	119
171	Highly transparent and writable wood all-cellulose hybrid nanostructured paper. Journal of Materials Chemistry C, 2013, 1, 6191.	2.7	117
172	Scalable, anisotropic transparent paper directly from wood for light management in solar cells. Nano Energy, 2017, 36, 366-373.	8.2	117
173	Flexible lithium–CO ₂ battery with ultrahigh capacity and stable cycling. Energy and Environmental Science, 2018, 11, 3231-3237.	15.6	117
174	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. Chemistry of Materials, 2020, 32, 5280-5289.	3.2	117
175	Bioinspired Solarâ€Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. Advanced Functional Materials, 2019, 29, 1900162.	7.8	116
176	3D lithium metal anodes hosted in asymmetric garnet frameworks toward high energy density batteries. Energy Storage Materials, 2018, 14, 376-382.	9.5	114
177	Atomic Force Microscopy Studies on Molybdenum Disulfide Flakes as Sodium-Ion Anodes. Nano Letters, 2015, 15, 1018-1024.	4.5	113
178	Sustainable high-strength macrofibres extracted from natural bamboo. Nature Sustainability, 2022, 5, 235-244.	11.5	113
179	A Highâ€Performance, Lowâ€Tortuosity Woodâ€Carbon Monolith Reactor. Advanced Materials, 2017, 29, 1604257.	11.1	110
180	Nanocellulose-based films and their emerging applications. Current Opinion in Solid State and Materials Science, 2019, 23, 100764.	5.6	109

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181	Allâ€Natural, Degradable, Rolledâ€Up Straws Based on Cellulose Micro―and Nanoâ€Hybrid Fibers. Advanced Functional Materials, 2020, 30, 1910417.	7.8	109
182	All-in-one lithium-sulfur battery enabled by a porous-dense-porous garnet architecture. Energy Storage Materials, 2018, 15, 458-464.	9.5	108
183	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. ACS Nano, 2021, 15, 3646-3673.	7.3	108
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