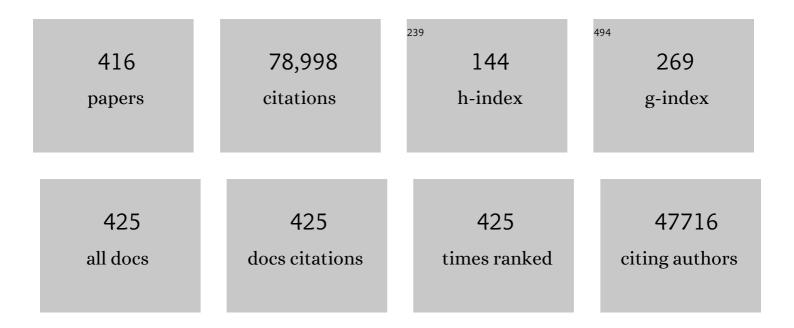
## Liangbing Hu

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 <sub>2</sub> 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 <sub>2</sub> –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 <sub>2</sub> O <sub>5</sub> 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 <sub>4</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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
184	Solar-assisted fabrication of large-scale, patternable transparent wood. Science Advances, 2021, 7, .	4.7	107
185	Rapid Processing of Whole Bamboo with Exposed, Aligned Nanofibrils toward a High-Performance Structural Material. ACS Nano, 2020, 14, 5194-5202.	7.3	105
186	Overcoming immiscibility toward bimetallic catalyst library. Science Advances, 2020, 6, eaaz6844.	4.7	105
187	Strong transparent magnetic nanopaper prepared by immobilization of Fe3O4 nanoparticles in a nanofibrillated cellulose network. Journal of Materials Chemistry A, 2013, 1, 15278.	5.2	104
188	Light management in plastic–paper hybrid substrate towards high-performance optoelectronics. Energy and Environmental Science, 2016, 9, 2278-2285.	15.6	103
189	Synergistic Ultrathin Functional Polymer-Coated Carbon Nanotube Interlayer for High Performance Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20092-20099.	4.0	102
190	Extreme mixing in nanoscale transition metal alloys. Matter, 2021, 4, 2340-2353.	5.0	102
191	General, Vertical, Three-Dimensional Printing of Two-Dimensional Materials with Multiscale Alignment. ACS Nano, 2019, 13, 12653-12661.	7.3	101
192	A high-entropy phosphate catalyst for oxygen evolution reaction. Nano Energy, 2021, 86, 106029.	8.2	100
193	Optical transmission enhacement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. Nature Communications, 2014, 5, 5670.	5.8	99
194	Infrared transparent carbon nanotube thin films. Applied Physics Letters, 2009, 94, 081103.	1.5	98
195	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. ACS Nano, 2020, 14, 16723-16734.	7.3	98
196	Self-Powered Human-Interactive Transparent Nanopaper Systems. ACS Nano, 2015, 9, 7399-7406.	7.3	97
197	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. Small Methods, 2019, 3, 1800176.	4.6	97
198	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. Nature Energy, 2018, 3, 148-156.	19.8	96

#	Article	IF	CITATIONS
199	Depolarized and Fully Active Cathode Based on Li(Ni <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> )O <sub>2</sub> Embedded in Carbon Nanotube Network for Advanced Batteries. Nano Letters, 2014, 14, 4700-4706.	4.5	95
200	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. NPG Asia Materials, 2015, 7, e150-e150.	3.8	95
201	3D printed separator for the thermal management of high-performance Li metal anodes. Energy Storage Materials, 2018, 12, 197-203.	9.5	95
202	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. Advanced Functional Materials, 2014, 24, 7366-7372.	7.8	94
203	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. Nano Letters, 2019, 19, 5149-5158.	4.5	94
204	Fireâ€Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. Advanced Functional Materials, 2020, 30, 1909196.	7.8	94
205	Continuous Synthesis of Hollow Highâ€Entropy Nanoparticles for Energy and Catalysis Applications. Advanced Materials, 2020, 32, e2002853.	11.1	93
206	Ta–TiOx nanoparticles as radical scavengers to improve the durability of Fe–N–C oxygen reduction catalysts. Nature Energy, 2022, 7, 281-289.	19.8	93
207	Textile Inspired Lithium–Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907.	11.1	92
208	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. ACS Applied Materials & Interfaces, 2019, 11, 5919-5927.	4.0	91
209	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. Nano Letters, 2017, 17, 4917-4923.	4.5	89
210	Free-Standing Na <sub>2/3</sub> Fe <sub>1/2</sub> Mn <sub>1/2</sub> O <sub>2</sub> @Graphene Film for a Sodium-Ion Battery Cathode. ACS Applied Materials & Interfaces, 2014, 6, 4242-4247.	4.0	88
211	Carbon Welding by Ultrafast Joule Heating. Nano Letters, 2016, 16, 7282-7289.	4.5	88
212	Fast and Scalable Printing of Large Area Monolayer Nanoparticles for Nanotexturing Applications. Nano Letters, 2010, 10, 2989-2994.	4.5	87
213	In Situ Investigations of Liâ€MoS <sub>2</sub> with Planar Batteries. Advanced Energy Materials, 2015, 5, 1401742.	10.2	87
214	In Situ Lignin Modification toward Photonic Wood. Advanced Materials, 2021, 33, e2001588.	11.1	86
215	Carbon‣upported Highâ€Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. Advanced Functional Materials, 2021, 31, 2010561.	7.8	86
216	A gravure printed antenna on shape-stable transparent nanopaper. Nanoscale, 2014, 6, 9110.	2.8	85

#	Article	IF	CITATIONS
217	Synergistic protective effect of a BN-carbon separator for highly stable lithium sulfur batteries. NPG Asia Materials, 2017, 9, e375-e375.	3.8	85
218	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. Nano Research, 2019, 12, 2259-2267.	5.8	85
219	Scalable Synthesis of High Entropy Alloy Nanoparticles by Microwave Heating. ACS Nano, 2021, 15, 14928-14937.	7.3	85
220	Tailoring the Local Environment of Platinum in Singleâ€Atom Pt <sub>1</sub> /CeO <sub>2</sub> Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie - International Edition, 2021, 60, 26054-26062.	7.2	84
221	A printed, recyclable, ultra-strong, and ultra-tough graphite structural material. Materials Today, 2019, 30, 17-25.	8.3	83
222	Salinityâ€Gradient Power Generation with Ionized Wood Membranes. Advanced Energy Materials, 2020, 10, 1902590.	10.2	83
223	Hydrophobic nanostructured wood membrane for thermally efficient distillation. Science Advances, 2019, 5, eaaw3203.	4.7	81
224	Thermally Conductive Reduced Graphene Oxide Thin Films for Extreme Temperature Sensors. Advanced Functional Materials, 2019, 29, 1901388.	7.8	81
225	Strong, Hydrostable, and Degradable Straws Based on Celluloseâ€Lignin Reinforced Composites. Small, 2021, 17, e2008011.	5.2	81
226	Thermally conductive, dielectric PCM–boron nitride nanosheet composites for efficient electronic system thermal management. Nanoscale, 2016, 8, 19326-19333.	2.8	80
227	Highly Anisotropic Conductors. Advanced Materials, 2017, 29, 1703331.	11.1	80
228	<i>In Situ</i> Transmission Electron Microscopy Observation of Sodiation–Desodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. Chemistry of Materials, 2016, 28, 6528-6535.	3.2	79
229	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 28566-28571.	4.0	79
230	In Situ "Chainmail Catalyst―Assembly in Lowâ€īortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. Advanced Energy Materials, 2018, 8, 1801289.	10.2	79
231	A Highly Conductive Cationic Wood Membrane. Advanced Functional Materials, 2019, 29, 1902772.	7.8	79
232	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. Advanced Sustainable Systems, 2019, 3, 1800055.	2.7	78
233	Transient Rechargeable Batteries Triggered by Cascade Reactions. Nano Letters, 2015, 15, 4664-4671.	4.5	77
234	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

#	Article	IF	CITATIONS
235	Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources. Cellulose, 2017, 24, 2483-2498.	2.4	77
236	Reversible Shortâ€Circuit Behaviors in Garnetâ€Based Solidâ€State Batteries. Advanced Energy Materials, 2020, 10, 2000702.	10.2	77
237	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. Advanced Materials, 2021, 33, e2005538.	11.1	77
238	Dry-Processed, Binder-Free Holey Graphene Electrodes for Supercapacitors with Ultrahigh Areal Loadings. ACS Applied Materials & Interfaces, 2016, 8, 29478-29485.	4.0	76
239	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. Nano Research, 2017, 10, 4256-4265.	5.8	76
240	Nanoscale Ion Regulation in Woodâ€Based Structures and Their Device Applications. Advanced Materials, 2021, 33, e2002890.	11.1	75
241	Aerosol Synthesis of High Entropy Alloy Nanoparticles. Langmuir, 2020, 36, 1985-1992.	1.6	74
242	Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in Li–S Batteries. Chemistry of Materials, 2017, 29, 8037-8041.	3.2	73
243	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. Energy and Environmental Science, 2011, 4, 1293.	15.6	72
244	Nanocellulose-based Translucent Diffuser for Optoelectronic Device Applications with Dramatic Improvement of Light Coupling. ACS Applied Materials & Interfaces, 2015, 7, 26860-26864.	4.0	72
245	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		72
246	In Situ Wood Delignification toward Sustainable Applications. Accounts of Materials Research, 2021, 2, 606-620.	5.9	71
247	Two dimensional silicon nanowalls for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 6051-6057.	5.2	70
248	A silicon anode for garnet-based all-solid-state batteries: Interfaces and nanomechanics. Energy Storage Materials, 2019, 21, 246-252.	9.5	70
249	Charging sustainable batteries. Nature Sustainability, 2022, 5, 176-178.	11.5	70
250	Nonflammable electrolyte enhances battery safety. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3205-3206.	3.3	69
251	A strong, flame-retardant, and thermally insulating wood laminate. Chemical Engineering Journal, 2020, 383, 123109.	6.6	69
252	Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. Nano Letters, 2016, 16, 5553-5558.	4.5	67

#	Article	IF	CITATIONS
253	Synthesis of Metal Oxide Nanoparticles by Rapid, Highâ€Temperature 3D Microwave Heating. Advanced Functional Materials, 2019, 29, 1904282.	7.8	65
254	Selectively aligned cellulose nanofibers towards high-performance soft actuators. Extreme Mechanics Letters, 2019, 29, 100463.	2.0	65
255	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	5.8	65
256	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. Chemistry of Materials, 2020, 32, 1887-1895.	3.2	65
257	A flexible solar-blind 2D boron nitride nanopaper-based photodetector with high thermal resistance. Npj 2D Materials and Applications, 2018, 2, .	3.9	64
258	Lightweight, conductive hollow fibers from nature as sustainable electrode materials for microbial energy harvesting. Nano Energy, 2014, 10, 268-276.	8.2	63
259	Highly Conductive, Light Weight, Robust, Corrosionâ€Resistant, Scalable, Allâ€Fiber Based Current Collectors for Aqueous Acidic Batteries. Advanced Energy Materials, 2018, 8, 1702615.	10.2	63
260	Paperâ€Based Antiâ€Reflection Coatings for Photovoltaics. Advanced Energy Materials, 2014, 4, 1301804.	10.2	62
261	Fabrication of 3D Core–Shell Multiwalled Carbon Nanotube@RuO <sub>2</sub> Lithium-Ion Battery Electrodes through a RuO <sub>2</sub> Atomic Layer Deposition Process. ACS Nano, 2015, 9, 464-473.	7.3	62
262	One-Dimensional Silicon Nanostructures for Li Ion Batteries. Journal of Physical Chemistry Letters, 2014, 5, 720-731.	2.1	61
263	Programmable heating and quenching for efficient thermochemical synthesis. Nature, 2022, 605, 470-476.	13.7	61
264	Metal current collector-free freestanding silicon–carbon 1D nanocomposites for ultralight anodes in lithium ion batteries. Journal of Power Sources, 2010, 195, 8311-8316.	4.0	60
265	Scalable Wood Hydrogel Membrane with Nanoscale Channels. ACS Nano, 2021, 15, 11244-11252.	7.3	60
266	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. Advanced Materials, 2016, 28, 4684-4691.	11.1	59
267	Advanced Nanowood Materials for the Water–Energy Nexus. Advanced Materials, 2021, 33, e2001240.	11.1	59
268	Oxidative Etching of Hexagonal Boron Nitride Toward Nanosheets with Defined Edges and Holes. Scientific Reports, 2015, 5, 14510.	1.6	58
269	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. Matter, 2019, 1, 759-769.	5.0	58
270	Stamping Flexible Li Alloy Anodes. Advanced Materials, 2021, 33, e2005305.	11.1	58

#	Article	IF	CITATIONS
271	Interfacial Oxygen Stabilizes Composite Silicon Anodes. Nano Letters, 2015, 15, 703-708.	4.5	57
272	Electrochemical Intercalation of Lithium Ions into NbSe <sub>2</sub> Nanosheets. ACS Applied Materials & Interfaces, 2016, 8, 11390-11395.	4.0	56
273	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. Advanced Fiber Materials, 2019, 1, 61-70.	7.9	56
274	Hydroxylated carbon nanotube enhanced sulfur cathodes for improved electrochemical performance of lithium–sulfur batteries. Chemical Communications, 2015, 51, 13682-13685.	2.2	55
275	Investigation of the Cathode–Catalyst–Electrolyte Interface in Aprotic Li–O <sub>2</sub> Batteries. Chemistry of Materials, 2015, 27, 5305-5313.	3.2	55
276	Scalable Dry Processing of Binder-Free Lithium-Ion Battery Electrodes Enabled by Holey Graphene. ACS Applied Energy Materials, 2019, 2, 2990-2997.	2.5	55
277	A general, highly efficient, high temperature thermal pulse toward high performance solid state electrolyte. Energy Storage Materials, 2019, 17, 234-241.	9.5	55
278	Development, application and commercialization of transparent paper. Translational Materials Research, 2014, 1, 015004.	1.2	54
279	Flexible, Bio-Compatible Nanofluidic Ion Conductor. Chemistry of Materials, 2018, 30, 7707-7713.	3.2	54
280	Printable, high-performance solid-state electrolyte films. Science Advances, 2020, 6, .	4.7	54
281	Thermally Conductive, Electrical Insulating, Optically Transparent Bi-Layer Nanopaper. ACS Applied Materials & Interfaces, 2016, 8, 28838-28843.	4.0	53
282	A Solutionâ€Processed Highâ€Temperature, Flexible, Thinâ€Film Actuator. Advanced Materials, 2016, 28, 8618-8624.	11.1	53
283	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. ACS Applied Materials & Interfaces, 2017, 9, 28922-28929.	4.0	53
284	An Energyâ€Efficient, Woodâ€Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. Small Methods, 2020, 4, 1900747.	4.6	53
285	Mixed ionic-electronic conductor enabled effective cathode-electrolyte interface in all solid state batteries. Nano Energy, 2018, 50, 393-400.	8.2	52
286	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. ACS Nano, 2018, 12, 5266-5273.	7.3	51
287	Rapid, high-temperature microwave soldering toward a high-performance cathode/electrolyte interface. Energy Storage Materials, 2020, 30, 385-391.	9.5	51
288	Flexible Garnet Solid-State Electrolyte Membranes Enabled by Tile-and-Grout Design. ACS Energy Letters, 2019, 4, 2668-2674.	8.8	50

#	Article	IF	CITATIONS
289	Highly Efficient Water Treatment via a Wood-Based and Reusable Filter. , 2020, 2, 430-437.		50
290	A high-performance hydroxide exchange membrane enabled by Cu2+-crosslinked chitosan. Nature Nanotechnology, 2022, 17, 629-636.	15.6	50
291	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. ACS Applied Materials & Interfaces, 2018, 10, 7362-7370.	4.0	49
292	Holey three-dimensional wood-based electrode for vanadium flow batteries. Energy Storage Materials, 2020, 27, 327-332.	9.5	49
293	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. Science Advances, 2022, 8, eabm4322.	4.7	49
294	Solid Electrolyte Lithium Phosphous Oxynitride as a Protective Nanocladding Layer for 3D High-Capacity Conversion Electrodes. ACS Nano, 2016, 10, 2693-2701.	7.3	48
295	High temperature thermal management with boron nitride nanosheets. Nanoscale, 2018, 10, 167-173.	2.8	48
296	Ultrahigh-temperature conversion of biomass to highly conductive graphitic carbon. Carbon, 2019, 144, 241-248.	5.4	48
297	Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. Materials Today, 2019, 24, 26-32.	8.3	48
298	All omponent Transient Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502496.	10.2	47
299	Flash-induced reduced graphene oxide as a Sn anode host for high performance sodium ion batteries. Journal of Materials Chemistry A, 2016, 4, 18306-18313.	5.2	47
300	Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. Nano Letters, 2015, 15, 3763-3769.	4.5	46
301	Na Metal Anode: "Holy Grail―for Room-Temperature Na-Ion Batteries?. ACS Central Science, 2015, 1, 420-422.	5.3	46
302	Single-digit-micrometer thickness wood speaker. Nature Communications, 2019, 10, 5084.	5.8	45
303	Ligninâ€Based Direct Ink Printed Structural Scaffolds. Small, 2020, 16, e1907212.	5.2	45
304	Compressible, Dense, Three-Dimensional Holey Graphene Monolithic Architecture. ACS Nano, 2017, 11, 3189-3197.	7.3	44
305	Highâ€Temperature Atomic Mixing toward Wellâ€Dispersed Bimetallic Electrocatalysts. Advanced Energy Materials, 2018, 8, 1800466.	10.2	43
306	Continuous 2000â€⁻K droplet-to-particle synthesis. Materials Today, 2020, 35, 106-114.	8.3	43

#	Article	IF	CITATIONS
307	Encapsulation of S/SWNT with PANI Web for Enhanced Rate and Cycle Performance in Lithium Sulfur Batteries. Scientific Reports, 2015, 5, 8946.	1.6	42
308	Decoupling Ionic and Electronic Pathways in Low-Dimensional Hybrid Conductors. Journal of the American Chemical Society, 2019, 141, 17830-17837.	6.6	42
309	Rapid Synthesis of Highâ€Entropy Oxide Microparticles. Small, 2022, 18, e2104761.	5.2	41
310	Weavable high-capacity electrodes. Nano Energy, 2013, 2, 987-994.	8.2	39
311	Highly compressible, binderless and ultrathick holey graphene-based electrode architectures. Nano Energy, 2017, 31, 386-392.	8.2	39
312	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. Advanced Energy Materials, 2020, 10, 2001119.	10.2	39
313	Wood Nanomaterials and Nanotechnologies. Advanced Materials, 2021, 33, e2006207.	11.1	39
314	Ultrafast Sintering of Solid-State Electrolytes with Volatile Fillers. ACS Energy Letters, 2021, 6, 3753-3760.	8.8	39
315	A highly sensitive, highly transparent, gel-gated MoS <sub>2</sub> phototransistor on biodegradable nanopaper. Nanoscale, 2016, 8, 14237-14242.	2.8	38
316	Toward stretchable batteries: 3D-printed deformable electrodes and separator enabled by nanocellulose. Materials Today, 2022, 54, 18-26.	8.3	35
317	<i>In Situ</i> High Temperature Synthesis of Single-Component Metallic Nanoparticles. ACS Central Science, 2017, 3, 294-301.	5.3	34
318	Solvo-thermal microwave-powered two-dimensional material exfoliation. Chemical Communications, 2016, 52, 5757-5760.	2.2	33
319	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. Materials Today, 2021, 42, 41-48.	8.3	32
320	Aqueous Gating of van der Waals Materials on Bilayer Nanopaper. ACS Nano, 2014, 8, 10606-10612.	7.3	31
321	Tunable Broadband Nanocarbon Transparent Conductor by Electrochemical Intercalation. ACS Nano, 2017, 11, 788-796.	7.3	31
322	A solid state energy storage device with supercapacitor–battery hybrid design. Journal of Materials Chemistry A, 2017, 5, 15266-15272.	5.2	31
323	Precision Imprinted Nanostructural Wood. Advanced Materials, 2019, 31, e1903270.	11.1	31
324	Interface Engineering Between Multiâ€Elemental Alloy Nanoparticles and a Carbon Support Toward Stable Catalysts. Advanced Materials, 2022, 34, e2106436.	11.1	30

#	Article	IF	CITATIONS
325	Enhanced electrochemical stability of high-voltage LiNi0.5Mn1.5O4 cathode by surface modification using atomic layer deposition. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	29
326	Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. Nano Letters, 2017, 17, 5817-5822.	4.5	29
327	Dramatic Enhancement of CO <sub>2</sub> Photoreduction by Biodegradable Lightâ€Management Paper. Advanced Energy Materials, 2018, 8, 1703136.	10.2	29
328	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. Nano Letters, 2021, 21, 6163-6170.	4.5	29
329	Ultrafast Microwave Nano-manufacturing of Fullerene-Like Metal Chalcogenides. Scientific Reports, 2016, 6, 22503.	1.6	28
330	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. ACS Applied Materials & Interfaces, 2019, 11, 29773-29779.	4.0	28
331	Rapid, Highâ€Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. Small, 2019, 15, e1904881.	5.2	28
332	High-Temperature Pulse Method for Nanoparticle Redispersion. Journal of the American Chemical Society, 2020, 142, 17364-17371.	6.6	28
333	Synthetic Crystals of Silver with Carbon: 3D Epitaxy of Carbon Nanostructures in the Silver Lattice. Advanced Functional Materials, 2015, 25, 4768-4777.	7.8	27
334	In Situ, Fast, Highâ€Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. Advanced Energy Materials, 2017, 7, 1601783.	10.2	27
335	Superâ€Clear Nanopaper from Agroâ€Industrial Waste for Green Electronics. Advanced Electronic Materials, 2017, 3, 1600539.	2.6	27
336	Ionâ€Conducting, Electronâ€Blocking Layer for Highâ€Performance Solid Electrolytes. Small Structures, 2021, 2, 2100014.	6.9	27
337	In situ iron coating on nanocatalysts for efficient and durable oxygen evolution reaction. Nano Energy, 2019, 63, 103855.	8.2	26
338	Upscaling 3D Engineered Trees for Off-Grid Desalination. Environmental Science & Technology, 2022, 56, 1289-1299.	4.6	26
339	Facile, Solventâ€Free Preparation of High Density, High Mass Loading Sulfur Cathodes Enabled by Dryâ€Pressable Holey Graphene Scaffolds. Batteries and Supercaps, 2019, 2, 774-783.	2.4	25
340	Fly-through synthesis of nanoparticles on textile and paper substrates. Nanoscale, 2019, 11, 6174-6181.	2.8	25
341	Cellulose hydrogel as a flexible gel electrolyte layer. MRS Communications, 2019, 9, 122-128.	0.8	25
342	Strong, Water-Stable Ionic Cable from Bio-Hydrogel. Chemistry of Materials, 2019, 31, 9288-9294.	3.2	24

#	Article	IF	CITATIONS
343	Highâ€Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solid‧tate Electrolyte Scaffolds. Advanced Materials, 2021, 33, e2100726.	11.1	24
344	Role of mesoporosity in cellulose fibers for paper-based fast electrochemical energy storage. Journal of Materials Chemistry A, 2013, 1, 8201.	5.2	23
345	Scalable nanomanufacturing of surfactant-free carbon nanotube inks for spray coatings with high conductivity. Nano Research, 2015, 8, 2242-2250.	5.8	23
346	Rapid Synthesis and Sintering of Metals from Powders. Advanced Science, 2021, 8, e2004229.	5.6	23
347	Electrochemical Stability of Garnet-Type Li <sub>7</sub> La <sub>2.75</sub> Ca <sub>0.25</sub> Zr <sub>1.75</sub> Nb <sub>0.25</sub> O <sub>12</sub> and without Atomic Layer Deposited-Al <sub>2</sub> O <sub>3</sub> Âunder CO <sub>2</sub> and Humidity, Journal of the Electrochemical Society, 2019, 166, A1844-A1852.	Âwith 1.3	22
348	Electrochemical measurement of serotonin by Au-CNT electrodes fabricated on microporous cell culture membranes. Microsystems and Nanoengineering, 2020, 6, 90.	3.4	22
349	Rapid, Universal Surface Engineering of Carbon Materials via Microwaveâ€Induced Carbothermal Shock. Advanced Functional Materials, 2021, 31, 2010968.	7.8	22
350	Design of High Capacity Dissoluble Electrodes for All Transient Batteries. Advanced Functional Materials, 2017, 27, 1605724.	7.8	21
351	Holey Carbon Nanotubes from Controlled Air Oxidation. Advanced Functional Materials, 2017, 27, 1700762.	7.8	21
352	Inverted battery design as ion generator for interfacing with biosystems. Nature Communications, 2017, 8, 15609.	5.8	21
353	Thermal Shock Synthesis of Nanocatalyst by 3Dâ€Printed Miniaturized Reactors. Small, 2020, 16, e2000509.	5.2	21
354	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material <sup>â€</sup> . Chinese Journal of Chemistry, 2020, 38, 823-829.	2.6	21
355	3Dâ€Printed, Highâ€Porosity, Highâ€Strength Graphite Aerogel. Small Methods, 2021, 5, e2001188.	4.6	21
356	Fabrication of Cellulose–Graphite Foam via Ion Cross-linking and Ambient-Drying. Nano Letters, 2022, 22, 3931-3938.	4.5	21
357	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, e2107951.	5.2	20
358	Advanced Broadband Antireflection Coatings Based on Cellulose Microfiber Paper. IEEE Journal of Photovoltaics, 2015, 5, 577-583.	1.5	19
359	A conductive wood membrane anode improves effluent quality of microbial fuel cells. Environmental Science: Water Research and Technology, 2017, 3, 940-946.	1.2	19
360	A self-buffering structure for application in high-performance sodium-ion batteries. Energy Storage Materials, 2018, 15, 242-248.	9.5	19

#	Article	IF	CITATIONS
361	A bio-inspired, hierarchically porous structure with a decoupled fluidic transportation and evaporative pathway toward high-performance evaporation. Journal of Materials Chemistry A, 2021, 9, 9745-9752.	5.2	19
362	A paper-based electrostatic zipper actuator for printable robots. , 2014, , .		18
363	Improving the High-Voltage Li <sub>2</sub> FeMn <sub>3</sub> O <sub>8</sub> Cathode by Chlorine Doping. ACS Applied Materials & Interfaces, 2016, 8, 10820-10825.	4.0	18
364	3D Printed Grapheneâ€Based 3000 K Probe. Advanced Functional Materials, 2021, 31, 2102994.	7.8	18
365	Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. Nano Energy, 2015, 13, 283-290.	8.2	17
366	Necklace‣ike Silicon Carbide and Carbon Nanocomposites Formed by Steady Joule Heating. Small Methods, 2018, 2, 1700371.	4.6	17
367	Super Elastic and Thermally Insulating Carbon Aerogel: Go Tubular Like Polar Bear Hair. Matter, 2019, 1, 36-38.	5.0	17
368	Shape-driven arrest of coffee stain effect drives the fabrication of carbon-nanotube-graphene-oxide inks for printing embedded structures and temperature sensors. Nanoscale, 2019, 11, 23402-23415.	2.8	16
369	Thermal Radiation Synthesis of Ultrafine Platinum Nanoclusters toward Methanol Oxidation. Small Methods, 2020, 4, 2000265.	4.6	16
370	A General Method for Regenerating Catalytic Electrodes. Joule, 2020, 4, 2374-2386.	11.7	15
371	Computation uided Synthesis of New Garnetâ€Type Solid‣tate Electrolytes via an Ultrafast Sintering Technique. Advanced Materials, 2020, 32, e2005059.	11.1	15
372	Engineered wood for a sustainable future. Matter, 2022, 5, 1326-1329.	5.0	14
373	Overcoming Immiscibility via a Milliseconds-Long "Shock―Synthesis toward Alloyed Nanoparticles. Matter, 2019, 1, 1451-1453.	5.0	13
374	Predicting the flexural strength of Liâ€ionâ€conducting garnet type oxide for solidâ€stateâ€batteries. Journal of the American Ceramic Society, 2020, 103, 5186-5195.	1.9	13
375	Continuous Fly-Through High-Temperature Synthesis of Nanocatalysts. Nano Letters, 2021, 21, 4517-4523.	4.5	13
376	Boron-doped few-walled carbon nanotubes: novel synthesis and properties. Nanotechnology, 2016, 27, 445601.	1.3	12
377	Transient Behavior of the Metal Interface in Lithium Metal–Garnet Batteries. Angewandte Chemie, 2017, 129, 15138-15143.	1.6	12
378	Towards a high-performance garnet-based solid-state Li metal battery: A perspective on recent advances. Journal of Power Sources, 2020, 472, 228571.	4.0	12

#	Article	IF	CITATIONS
379	Rapid Atomic Ordering Transformation toward Intermetallic Nanoparticles. Nano Letters, 2022, 22, 255-262.	4.5	12
380	Wood cellulose-based thin gel electrolyte with enhanced ionic conductivity. MRS Communications, 2019, 9, 1015-1021.	0.8	11
381	Cut-and-stack nanofiber paper toward fast transient energy storage. Inorganic Chemistry Frontiers, 2016, 3, 681-688.	3.0	10
382	Wood Ionic Cable. Small, 2021, 17, e2008200.	5.2	10
383	Ultrafast high-temperature sintering to avoid metal loss toward high-performance and scalable cermets. Matter, 2022, 5, 594-604.	5.0	10
384	Tuning the Highâ€Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 2625-2629.	7.2	9
385	Thermoelectric properties enhancement of p-type composite films using wood-based binder and mechanical pressing. Scientific Reports, 2019, 9, 7869.	1.6	8
386	Composition-dependent structure and properties of 5- and 15-element high-entropy alloy nanoparticles. Cell Reports Physical Science, 2021, 2, 100641.	2.8	8
387	Drop spreading on a superhydrophobic surface: pinned contact line and bending liquid surface. Physical Chemistry Chemical Physics, 2017, 19, 14442-14452.	1.3	7
388	Interaction between a water drop and holey graphene: retarded imbibition and generation of novel water–graphene wetting states. Physical Chemistry Chemical Physics, 2017, 19, 27421-27434.	1.3	7
389	One-Step, Catalyst-Free, Scalable in Situ Synthesis of Single-Crystal Aluminum Nanowires in Confined Graphene Space. ACS Applied Materials & Interfaces, 2019, 11, 6009-6014.	4.0	7
390	Tailoring the Local Environment of Platinum in Singleâ€Atom Pt <sub>1</sub> /CeO <sub>2</sub> Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie, 2021, 133, 26258-26266.	1.6	7
391	Catalyst-Free <i>In Situ</i> Carbon Nanotube Growth in Confined Space <i>via</i> High Temperature Gradient. Research, 2018, 2018, 1793784.	2.8	7
392	Rapid Dissolving-Debonding Strategy for Optically Transparent Paper Production. Scientific Reports, 2016, 5, 17703.	1.6	6
393	Dynamics of a Water Nanodrop through a Holey Graphene Matrix: Role of Surface Functionalization, Capillarity, and Applied Forcing. Journal of Physical Chemistry C, 2018, 122, 12243-12250.	1.5	6
394	Giant tunability of interlayer friction in graphite via ion intercalation. Extreme Mechanics Letters, 2020, 35, 100616.	2.0	6
395	Rapid Laser Pulse Synthesis of Supported Metal Nanoclusters with Kinetically Tunable Size and Surface Density for Electrocatalytic Hydrogen Evolution. ACS Applied Nano Materials, 2020, 3, 2959-2968.	2.4	6
396	Target-Sintering of Single-Phase Bulk Intermetallics via a Fast-Heating-Induced Rapid Interdiffusion Mechanism. , 2022, 4, 480-486.		6

#	Article	IF	CITATIONS
397	Protection of boron nitride nanosheets by atomic layer deposition toward thermal energy management applications. Nano Energy, 2017, 40, 149-154.	8.2	5
398	Critical roles of pores and moisture in sustainable nanocellulose-based super-thermal insulators. Matter, 2021, 4, 769-772.	5.0	5
399	Molecular partitioning in ternary solutions of cellulose. Carbohydrate Polymers, 2019, 220, 157-162.	5.1	4
400	Wood Cellulose Paper for Solar Cells. , 2020, , 279-295.		4
401	Solar Cells: Paperâ€Based Antiâ€Reflection Coatings for Photovoltaics (Adv. Energy Mater. 9/2014). Advanced Energy Materials, 2014, 4, .	10.2	3
402	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). Advanced Materials, 2016, 28, 4566-4566.	11.1	3
403	Cellulose Nanocomposites of Cellulose Nanofibers and Molecular Coils. Journal of Composites Science, 2021, 5, 200.	1.4	2
404	Boron-Nitride Nanosheet-Based Thermal Barrier Coating for Micro-Combustor Performance Improvement. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	2
405	Shock synthesis by flash-thermal lamping. CheM, 2022, , .	5.8	2
406	A low-corrosivity structural timber. Cell Reports Physical Science, 2022, 3, 100921.	2.8	2
407	Modified coffee rings for 1-D electronics: Size considerations. Molecular Crystals and Liquid Crystals, 2017, 646, 26-30.	0.4	1
408	Tuning the Highâ€īemperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. Angewandte Chemie, 2018, 130, 2655-2659.	1.6	1
409	Cellulose Nanofiber Templating: Recent Advances in Functional Materials through Cellulose Nanofiber Templating (Adv. Mater. 12/2021). Advanced Materials, 2021, 33, 2170094.	11.1	1
410	Frontispiece: Tailoring the Local Environment of Platinum in Singleâ€Atom Pt <sub>1</sub> /CeO <sub>2</sub> Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie - International Edition, 2021, 60, .	7.2	1
411	Synthetic Alloys: Synthetic Crystals of Silver with Carbon: 3D Epitaxy of Carbon Nanostructures in the Silver Lattice (Adv. Funct. Mater. 30/2015). Advanced Functional Materials, 2015, 25, 4746-4746.	7.8	0
412	3D Microstructure Reconstruction and Characterization of Solid-State Electrolyte with Varying Porosity. Microscopy and Microanalysis, 2018, 24, 814-815.	0.2	0
413	In situ TEM Observation of Nanoparticles Formation during Carbothermal Shock. Microscopy and Microanalysis, 2019, 25, 1534-1535.	0.2	0
414	Ion Transport and Regulation: Nanoscale Ion Regulation in Woodâ€Based Structures and Their Device Applications (Adv. Mater. 28/2021). Advanced Materials, 2021, 33, 2170221.	11.1	0

#	Article	IF	CITATIONS
415	Silver Nanowires. , 2016, , 1187-1203.		0
416	Frontispiz: Tailoring the Local Environment of Platinum in Singleâ€Atom Pt <sub>1</sub> /CeO <sub>2</sub> Catalysts for Robust Lowâ€Temperature CO Oxidation. Angewandte Chemie, 2021, 133, .	1.6	0