

Liangbing Hu

List of Publications by Year in descending order

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434
papers

89,180
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461
all docs

461
docs citations

461
times ranked

55321
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage-Tolerant Wood Layers for Corrosion Protection of Metal Structures. Nano Letters, 2024, 24, 245-253.	8.8	3
2	Design, Fabrication, and Screening of Environmentalâ€Thermal Barrier Coatings Prepared by Ultrafast Highâ€Temperature Sintering. Advanced Functional Materials, 2024, 34, .	17.1	4
3	Tailoring Local Chemical Ordering via Elemental Tuning in High-Entropy Alloys. Journal of the American Chemical Society, 2024, 146, 2167-2173.	15.7	19
4	Machine intelligence-accelerated discovery of all-natural plastic substitutes. Nature Nanotechnology, 2024, 19, 782-791.	23.9	16
5	Turning powders into fibre via cellulose. Nature Materials, 2024, 23, 579-580.	20.9	1
6	Flash heating process for efficient meat preservation. Nature Communications, 2024, 15, .	14.1	0
7	Ion-chelated porous chitosan nanocrystal for highly efficient postharvest preservation. Matter, 2024, 7, 2567-2580.	13.9	4
8	Genome-edited trees for high-performance engineered wood. Matter, 2024, 7, 3658-3671.	13.9	1
9	Atomic Scale Responses of High Entropy Oxides to Redox Environments. Nano Letters, 2024, 24, 11537-11543.	8.8	0
10	3775-year-old wood burial supports â€œwood vaultingâ€ as a durable carbon removal method. Science, 2024, 385, 1454-1459.	38.2	1
11	Electrothermal synthesis of commodity chemicals. Nature Chemical Engineering, 2024, 1, 680-690.	0.0	5
12	Emerging Engineered Wood for Building Applications. Chemical Reviews, 2023, 123, 1843-1888.	54.6	126
13	Synthesizing Carbonâ€Supported, Highâ€Loading, Ultraâ€Small Pt₃Ni Nanoparticles via Tuning the Surface Electrostatic Effect. Small Structures, 2023, 4, .	11.1	6
14	Lightweight, Thermally Insulating, Fireâ€Proof Graphiteâ€Cellulose Foam. Advanced Functional Materials, 2023, 33, .	17.1	38
15	A scalable high-porosity wood for sound absorption and thermal insulation. Nature Sustainability, 2023, 6, 306-315.	16.5	90
16	Nanocelluloseâ€Carboxymethylcellulose Electrolyte for Stable, Highâ€Rate Zincâ€Ion Batteries. Advanced Functional Materials, 2023, 33, .	17.1	86
17	Depolymerization of plastics by means of electrified spatiotemporal heating. Nature, 2023, 616, 488-494.	40.1	122
18	Direct and Rapid Highâ€Temperature Upcycling of Degraded Graphite. Advanced Functional Materials, 2023, 33, .	17.1	22

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19	Highly Selective Electrochemical Nitrate to Ammonia Conversion by Dispersed Ru in a Multielement Alloy Catalyt. Nano Letters, 2023, 23, 7733-7742.	8.8	33
20	Sustainable electronic textiles towards scalable commercialization. Nature Materials, 2023, 22, 1294-1303.	20.9	64
21	<i>In Situ</i> Lignin Adhesion for High-Performance Bamboo Composites. Nano Letters, 2023, 23, 8411-8418.	8.8	29
22	The Critical Roles of Water in the Processing, Structure, and Properties of Nanocellulose. ACS Nano, 2023, 17, 22196-22226.	15.4	67
23	A solution-processed radiative cooling glass. Science, 2023, 382, 684-691.	38.2	130
24	A stable atmospheric-pressure plasma for extreme-temperature synthesis. Nature, 2023, 623, 964-971.	40.1	19
25	Three-dimensional atomic structure and local chemical order of medium- and high-entropy nanoalloys. Nature, 2023, 624, 564-569.	40.1	55
26	Boron-Nitride Nanosheet-Based Thermal Barrier Coating for Micro-Combustor Performance Improvement. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	2
27	Ultrafast high-temperature sintering to avoid metal loss toward high-performance and scalable cermets. Matter, 2022, 5, 594-604.	13.9	24
28	Interface Engineering Between Multi-Elemental Alloy Nanoparticles and a Carbon Support Toward Stable Catalysts. Advanced Materials, 2022, 34, .	24.7	39
29	Rapid Synthesis of High-Entropy Oxide Microparticles. Small, 2022, 18, .	11.6	70
30	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. Science Advances, 2022, 8, .	11.3	96
31	Upscaling 3D Engineered Trees for Off-Grid Desalination. Environmental Science & Technology, 2022, 56, 1289-1299.	11.3	35
32	Target-Sintering of Single-Phase Bulk Intermetallics via a Fast-Heating-Induced Rapid Interdiffusion Mechanism. , 2022, 4, 480-486.		10
33	Ta-TiO _x nanoparticles as radical scavengers to improve the durability of Fe-Ni-C oxygen reduction catalysts. Nature Energy, 2022, 7, 281-289.	26.7	147
34	Charging sustainable batteries. Nature Sustainability, 2022, 5, 176-178.	16.5	114
35	Toward stretchable batteries: 3D-printed deformable electrodes and separator enabled by nanocellulose. Materials Today, 2022, 54, 18-26.	12.7	71
36	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, .	11.6	25

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37	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. <i>Science</i> , 2022, 376, .	38.2	455
38	Rapid Atomic Ordering Transformation toward Intermetallic Nanoparticles. <i>Nano Letters</i> , 2022, 22, 255-262.	8.8	22
39	A high-performance hydroxide exchange membrane enabled by Cu ²⁺ -crosslinked chitosan. <i>Nature Nanotechnology</i> , 2022, 17, 629-636.	23.9	93
40	Engineered wood for a sustainable future. <i>Matter</i> , 2022, 5, 1326-1329.	13.9	33
41	Fabrication of Celluloseâ€“Graphite Foam via Ion Cross-linking and Ambient-Drying. <i>Nano Letters</i> , 2022, 22, 3931-3938.	8.8	37
42	Programmable heating and quenching for efficient thermochemical synthesis. <i>Nature</i> , 2022, 605, 470-476.	40.1	116
43	A low-corrosivity structural timber. <i>Cell Reports Physical Science</i> , 2022, 3, 100921.	5.1	3
44	Rapid liquid phaseâ€“assisted ultrahigh-temperature sintering of high-entropy ceramic composites. <i>Science Advances</i> , 2022, 8, .	11.3	36
45	Scalable Dry-Pressed Electrodes Based on Holey Graphene. <i>Accounts of Chemical Research</i> , 2022, 55, 3020-3031.	17.7	19
46	A sustainable chitosan-zinc electrolyte for high-rate zinc-metal batteries. <i>Matter</i> , 2022, 5, 3402-3416.	13.9	138
47	Ultrahigh-temperature melt printing of multi-principal element alloys. <i>Nature Communications</i> , 2022, 13, .	14.1	12
48	A cellulose-derived supramolecule for fast ion transport. <i>Science Advances</i> , 2022, 8, .	11.3	36
49	Highly stable, antiviral, antibacterial cotton textiles via molecular engineering. <i>Nature Nanotechnology</i> , 2022, 18, 168-176.	23.9	104
50	Advanced Nanowood Materials for the Waterâ€“Energy Nexus. <i>Advanced Materials</i> , 2021, 33, .	24.7	65
51	Nanoscale Ion Regulation in Woodâ€“Based Structures and Their Device Applications. <i>Advanced Materials</i> , 2021, 33, .	24.7	109
52	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. <i>Materials Today</i> , 2021, 42, 41-48.	12.7	40
53	Highâ€“Entropy Metal Sulfide Nanoparticles Promise Highâ€“Performance Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021, 11, .	22.7	321
54	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021, 4, 62-70.	27.4	223

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55	Solar-assisted fabrication of large-scale, patternable transparent wood. <i>Science Advances</i> , 2021, 7, .	11.3	148
56	A bio-inspired, hierarchically porous structure with a decoupled fluidic transportation and evaporative pathway toward high-performance evaporation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9745-9752.	9.3	22
57	In Situ Lignin Modification toward Photonic Wood. <i>Advanced Materials</i> , 2021, 33, .	24.7	112
58	Rapid, Universal Surface Engineering of Carbon Materials via Microwave-Induced Carbothermal Shock. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	32
59	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. <i>Advanced Materials</i> , 2021, 33, .	24.7	105
60	Developing fibrillated cellulose as a sustainable technological material. <i>Nature</i> , 2021, 590, 47-56.	40.1	986
61	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , 2021, 33, .	24.7	81
62	Carbon-Supported High-Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	119
63	Determining the three-dimensional atomic structure of an amorphous solid. <i>Nature</i> , 2021, 592, 60-64.	40.1	259
64	Strong, Hydrostable, and Degradable Straws Based on Cellulose-Lignin Reinforced Composites. <i>Small</i> , 2021, 17, .	11.6	118
65	A strong, biodegradable and recyclable lignocellulosic bioplastic. <i>Nature Sustainability</i> , 2021, 4, 627-635.	16.5	425
66	Rapid Synthesis and Sintering of Metals from Powders. <i>Advanced Science</i> , 2021, 8, .	12.8	32
67	Ion-Conducting, Electron-Blocking Layer for High-Performance Solid Electrolytes. <i>Small Structures</i> , 2021, 2, .	11.1	29
68	Continuous Fly-Through High-Temperature Synthesis of Nanocatalysts. <i>Nano Letters</i> , 2021, 21, 4517-4523.	8.8	19
69	3D-Printed, High-Porosity, High-Strength Graphite Aerogel. <i>Small Methods</i> , 2021, 5, .	9.1	26
70	3D Printed Graphene-Based 3000 K Probe. <i>Advanced Functional Materials</i> , 2021, 31, .	17.1	21
71	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021, 4, 2340-2353.	13.9	155
72	Amorphous-Carbon-Coated 3D Solid Electrolyte for an Electro-Chemomechanically Stable Lithium Metal Anode in Solid-State Batteries. <i>Nano Letters</i> , 2021, 21, 6163-6170.	8.8	38

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73	Scalable Wood Hydrogel Membrane with Nanoscale Channels. ACS Nano, 2021, 15, 11244-11252.	15.4	88
74	Cellulose Nanocomposites of Cellulose Nanofibers and Molecular Coils. Journal of Composites Science, 2021, 5, 200.	3.5	4
75	High-Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solid-State Electrolyte Scaffolds. Advanced Materials, 2021, 33, .	24.7	46
76	Wood Nanomaterials and Nanotechnologies. Advanced Materials, 2021, 33, .	24.7	49
77	A high-entropy phosphate catalyst for oxygen evolution reaction. Nano Energy, 2021, 86, 106029.	16.3	139
78	Scalable Synthesis of High Entropy Alloy Nanoparticles by Microwave Heating. ACS Nano, 2021, 15, 14928-14937.	15.4	146
79	In Situ Wood Delignification toward Sustainable Applications. Accounts of Materials Research, 2021, 2, 606-620.	12.8	119
80	Ultrafast Sintering of Solid-State Electrolytes with Volatile Fillers. ACS Energy Letters, 2021, 6, 3753-3760.	17.5	56
81	Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. Angewandte Chemie, 2021, 133, 26258-26266.	1.5	11
82	Wood Ionic Cable. Small, 2021, 17, .	11.6	18
83	Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. Angewandte Chemie - International Edition, 2021, 60, 26054-26062.	15.0	111
84	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. Energy and Environmental Science, 2021, 14, 5347-5357.	30.6	191
85	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. ACS Nano, 2021, 15, 3646-3673.	15.4	148
86	Copper-coordinated cellulose ion conductors for solid-state batteries. Nature, 2021, 598, 590-596.	40.1	382
87	Composition-dependent structure and properties of 5- and 15-element high-entropy alloy nanoparticles. Cell Reports Physical Science, 2021, 2, 100641.	5.1	13
88	Frontispiz: Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. Angewandte Chemie, 2021, 133, .	1.5	0
89	Sustainable high-strength macrofibres extracted from natural bamboo. Nature Sustainability, 2021, 5, 235-244.	16.5	187
90	A strong, flame-retardant, and thermally insulating wood laminate. Chemical Engineering Journal, 2020, 383, 123109.	11.9	98

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91	Lignin as a Wood-Inspired Binder Enabled Strong, Water Stable, and Biodegradable Paper for Plastic Replacement. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	263
92	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	156
93	Continuous 2000â€K droplet-to-particle synthesis. <i>Materials Today</i> , 2020, 35, 106-114.	12.7	56
94	An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. <i>Small Methods</i> , 2020, 4, .	9.1	69
95	Giant tunability of interlayer friction in graphite via ion intercalation. <i>Extreme Mechanics Letters</i> , 2020, 35, 100616.	4.2	6
96	Salinity-Gradient Power Generation with Ionized Wood Membranes. <i>Advanced Energy Materials</i> , 2020, 10, .	22.7	108
97	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <i>Matter</i> , 2020, 2, 390-403.	13.9	259
98	A General Method for Regenerating Catalytic Electrodes. <i>Joule</i> , 2020, 4, 2374-2386.	29.1	24
99	Computation-Guided Synthesis of New Garnet-Type Solid-State Electrolytes via an Ultrafast Sintering Technique. <i>Advanced Materials</i> , 2020, 32, .	24.7	24
100	Continuous Synthesis of Hollow High-Entropy Nanoparticles for Energy and Catalysis Applications. <i>Advanced Materials</i> , 2020, 32, .	24.7	122
101	Printable, high-performance solid-state electrolyte films. <i>Science Advances</i> , 2020, 6, .	11.3	73
102	Towards a high-performance garnet-based solid-state Li metal battery: A perspective on recent advances. <i>Journal of Power Sources</i> , 2020, 472, 228571.	8.0	12
103	Scalable aesthetic transparent wood for energy efficient buildings. <i>Nature Communications</i> , 2020, 11, .	14.1	231
104	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. <i>ACS Nano</i> , 2020, 14, 16723-16734.	15.4	117
105	Electrochemical measurement of serotonin by Au-CNT electrodes fabricated on microporous cell culture membranes. <i>Microsystems and Nanoengineering</i> , 2020, 6, .	9.3	29
106	High-Temperature Pulse Method for Nanoparticle Redispersion. <i>Journal of the American Chemical Society</i> , 2020, 142, 17364-17371.	15.7	34
107	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020, 11, .	14.1	93
108	Structure-property-function relationships of natural and engineered wood. <i>Nature Reviews Materials</i> , 2020, 5, 642-666.	32.0	797

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109	Reversible Short-Circuit Behaviors in Garnet-Based Solid-State Batteries. <i>Advanced Energy Materials</i> , 2020, 10, .	22.7	91
110	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. <i>Chemistry of Materials</i> , 2020, 32, 5280-5289.	6.9	133
111	Thermal Shock Synthesis of Nanocatalyst by 3D-Printed Miniaturized Reactors. <i>Small</i> , 2020, 16, .	11.6	24
112	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. <i>Advanced Energy Materials</i> , 2020, 10, .	22.7	49
113	Wood Cellulose Paper for Solar Cells. , 2020, , 279-295.		4
114	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. <i>Science Advances</i> , 2020, 6, .	11.3	217
115	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material ^{<sup>â€</sup>} . <i>Chinese Journal of Chemistry</i> , 2020, 38, 823-829.	6.6	25
116	Highly Efficient Water Treatment via a Wood-Based and Reusable Filter. , 2020, 2, 430-437.		66
117	Lignin-Based Direct Ink Printed Structural Scaffolds. <i>Small</i> , 2020, 16, .	11.6	60
118	Thermal Radiation Synthesis of Ultrafine Platinum Nanoclusters toward Methanol Oxidation. <i>Small Methods</i> , 2020, 4, .	9.1	19
119	Rapid Laser Pulse Synthesis of Supported Metal Nanoclusters with Kinetically Tunable Size and Surface Density for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 2959-2968.	5.4	7
120	Aerosol Synthesis of High Entropy Alloy Nanoparticles. <i>Langmuir</i> , 2020, 36, 1985-1992.	3.8	97
121	Holey three-dimensional wood-based electrode for vanadium flow batteries. <i>Energy Storage Materials</i> , 2020, 27, 327-332.	18.0	56
122	A Strong, Tough, and Scalable Structural Material from Fast-Growing Bamboo. <i>Advanced Materials</i> , 2020, 32, .	24.7	250
123	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	113
124	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020, 32, 1887-1895.	6.9	71
125	Predicting the flexural strength of Li-ion-conducting garnet type oxide for solid-state batteries. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5186-5195.	3.8	15
126	All-Natural, Degradable, Rolled-Up Straws Based on Cellulose Micro- and Nano-Hybrid Fibers. <i>Advanced Functional Materials</i> , 2020, 30, .	17.1	138

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127	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. <i>Chemical Reviews</i> , 2020, 120, 4257-4300.	54.6	819
128	Rapid Processing of Whole Bamboo with Exposed, Aligned Nanofibrils toward a High-Performance Structural Material. <i>ACS Nano</i> , 2020, 14, 5194-5202.	15.4	140
129	Overcoming immiscibility toward bimetallic catalyst library. <i>Science Advances</i> , 2020, 6, .	11.3	134
130	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6316-6322.	7.7	162
131	Rapid, high-temperature microwave soldering toward a high-performance cathode/electrolyte interface. <i>Energy Storage Materials</i> , 2020, 30, 385-391.	18.0	55
132	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. <i>Materials Today</i> , 2019, 22, 50-57.	12.7	255
133	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019, 3, .	5.9	85
134	Nanocellulose-based films and their emerging applications. <i>Current Opinion in Solid State and Materials Science</i> , 2019, 23, 100764.	12.6	128
135	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		86
136	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019, 14, 851-857.	23.9	329
137	Hydrophobic nanostructured wood membrane for thermally efficient distillation. <i>Science Advances</i> , 2019, 5, .	11.3	85
138	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. <i>Nano Letters</i> , 2019, 19, 5149-5158.	8.8	108
139	Thick Electrode Batteries: Principles, Opportunities, and Challenges. <i>Advanced Energy Materials</i> , 2019, 9, .	22.7	532
140	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29773-29779.	8.1	32
141	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. <i>Advanced Fiber Materials</i> , 2019, 1, 61-70.	19.1	79
142	Decoupling Ionic and Electronic Pathways in Low-Dimensional Hybrid Conductors. <i>Journal of the American Chemical Society</i> , 2019, 141, 17830-17837.	15.7	55
143	Flexible Garnet Solid-State Electrolyte Membranes Enabled by Tile-and-Grout Design. <i>ACS Energy Letters</i> , 2019, 4, 2668-2674.	17.5	58
144	Synthesis of Metal Oxide Nanoparticles by Rapid, High-Temperature 3D Microwave Heating. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	81

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145	Precision Imprinted Nanostructural Wood. <i>Advanced Materials</i> , 2019, 31, .	24.7	36
146	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019, 15, .	11.6	36
147	Single-digit-micrometer thickness wood speaker. <i>Nature Communications</i> , 2019, 10, .	14.1	57
148	Strong, Water-Stable Ionic Cable from Bio-Hydrogel. <i>Chemistry of Materials</i> , 2019, 31, 9288-9294.	6.9	29
149	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. <i>Matter</i> , 2019, 1, 759-769.	13.9	78
150	A Highly Conductive Cationic Wood Membrane. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	106
151	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. <i>Nature Communications</i> , 2019, 10, .	14.1	494
152	Clear Wood toward High-Performance Building Materials. <i>ACS Nano</i> , 2019, 13, 9993-10001.	15.4	172
153	In situ TEM Observation of Nanoparticles Formation during Carbothermal Shock. <i>Microscopy and Microanalysis</i> , 2019, 25, 1534-1535.	0.5	1
154	General, Vertical, Three-Dimensional Printing of Two-Dimensional Materials with Multiscale Alignment. <i>ACS Nano</i> , 2019, 13, 12653-12661.	15.4	116
155	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li ₂ O Batteries. <i>Advanced Energy Materials</i> , 2019, 9, .	22.7	135
156	Molecular partitioning in ternary solutions of cellulose. <i>Carbohydrate Polymers</i> , 2019, 220, 157-162.	12.1	4
157	Wood cellulose-based thin gel electrolyte with enhanced ionic conductivity. <i>MRS Communications</i> , 2019, 9, 1015-1021.	1.9	12
158	Facile, Solvent-Free Preparation of High Density, High Mass Loading Sulfur Cathodes Enabled by Dry-Pressable Holey Graphene Scaffolds. <i>Batteries and Supercaps</i> , 2019, 2, 774-783.	4.4	29
159	A silicon anode for garnet-based all-solid-state batteries: Interfaces and nanomechanics. <i>Energy Storage Materials</i> , 2019, 21, 246-252.	18.0	90
160	In situ iron coating on nanocatalysts for efficient and durable oxygen evolution reaction. <i>Nano Energy</i> , 2019, 63, 103855.	16.3	32
161	Electrochemical Stability of Garnet-Type Li ₇ La _{2.75} Ca _{0.25} Zr _{1.75} Nb _{0.25} O ₁₂ with and without Atomic Layer Deposited-Al ₂ O ₃ under CO ₂ and Humidity. <i>Journal of the Electrochemical Society</i> . 2019, 166, A1844-A1852.	3.1	25
162	Thermoelectric properties enhancement of p-type composite films using wood-based binder and mechanical pressing. <i>Scientific Reports</i> , 2019, 9, .	3.7	10

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163	Selectively aligned cellulose nanofibers towards high-performance soft actuators. <i>Extreme Mechanics Letters</i> , 2019, 29, 100463.	4.2	77
164	A printed, recyclable, ultra-strong, and ultra-tough graphite structural material. <i>Materials Today</i> , 2019, 30, 17-25.	12.7	92
165	Thermally Conductive Reduced Graphene Oxide Thin Films for Extreme Temperature Sensors. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	101
166	A High-Performance Self-Regenerating Solar Evaporator for Continuous Water Desalination. <i>Advanced Materials</i> , 2019, 31, .	24.7	749
167	Scalable Dry Processing of Binder-Free Lithium-Ion Battery Electrodes Enabled by Holey Graphene. <i>ACS Applied Energy Materials</i> , 2019, 2, 2990-2997.	5.4	69
168	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019, 18, 608-613.	20.9	401
169	Fly-through synthesis of nanoparticles on textile and paper substrates. <i>Nanoscale</i> , 2019, 11, 6174-6181.	5.1	29
170	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , 2019, 12, 1558-1567.	30.6	559
171	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. <i>ACS Nano</i> , 2019, 13, 4843-4853.	15.4	205
172	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019, 12, 2259-2267.	8.5	89
173	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	138
174	Cellulose hydrogel as a flexible gel electrolyte layer. <i>MRS Communications</i> , 2019, 9, 122-128.	1.9	30
175	Challenges and Opportunities for Solar Evaporation. <i>Joule</i> , 2019, 3, 683-718.	29.1	1,071
176	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , 2019, 5, .	11.3	174
177	Transient, <i>in situ</i> synthesis of ultrafine ruthenium nanoparticles for a high-rate Li-CO ₂ battery. <i>Energy and Environmental Science</i> , 2019, 12, 1100-1107.	30.6	149
178	Dense, Self-Formed Char Layer Enables a Fire-Retardant Wood Structural Material. <i>Advanced Functional Materials</i> , 2019, 29, .	17.1	155
179	Shape-driven arrest of coffee stain effect drives the fabrication of carbon-nanotube-graphene-oxide inks for printing embedded structures and temperature sensors. <i>Nanoscale</i> , 2019, 11, 23402-23415.	5.1	18
180	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. <i>Small Methods</i> , 2019, 3, .	9.1	111

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182	A general, highly efficient, high temperature thermal pulse toward high performance solid state electrolyte. <i>Energy Storage Materials</i> , 2019, 17, 234-241.	18.0	64
183	An Electron/Ion Dual-Conductive Alloy Framework for High-Rate and High-Capacity Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, .	24.7	223
184	One-Step, Catalyst-Free, Scalable in Situ Synthesis of Single-Crystal Aluminum Nanowires in Confined Graphene Space. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6009-6014.	8.1	8
185	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5919-5927.	8.1	98
186	Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. <i>Materials Today</i> , 2019, 24, 26-32.	12.7	56
187	Dramatic Enhancement of CO ₂ Photoreduction by Biodegradable Light-Management Paper. <i>Advanced Energy Materials</i> , 2018, 8, .	22.7	30
188	Necklace-Like Silicon Carbide and Carbon Nanocomposites Formed by Steady Joule Heating. <i>Small Methods</i> , 2018, 2, .	9.1	18
189	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , 2018, 28, .	17.1	161
190	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018, 28, .	17.1	407
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194	3D lithium metal anodes hosted in asymmetric garnet frameworks toward high energy density batteries. <i>Energy Storage Materials</i> , 2018, 14, 376-382.	18.0	125
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197	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. <i>Nature Energy</i> , 2018, 3, 148-156.	26.7	106
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208	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , 2018, 8, .	22.7	208
209	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018, 8, .	22.7	767
210	Hierarchically Porous, Ultrathick, "Breathable" Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, .	22.7	173
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254	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal–sulfur batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1568-1575.	30.6	519
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