

Liangbing Hu

List of Publications by Citations

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404
papers

56,342
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h-index

230
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425
ext. papers

67,107
ext. citations

16.8
avg, IF

8.06
L-index

#	Paper	IF	Citations
404	Stable cycling of double-walled silicon nanotube battery anodes through solid-electrolyte interphase control. <i>Nature Nanotechnology</i> , 2012 , 7, 310-5	28.7	1831
403	Emerging transparent electrodes based on thin films of carbon nanotubes, graphene, and metallic nanostructures. <i>Advanced Materials</i> , 2011 , 23, 1482-513	24	1737
402	Scalable coating and properties of transparent, flexible, silver nanowire electrodes. <i>ACS Nano</i> , 2010 , 4, 2955-63	16.7	1734
401	Stretchable, porous, and conductive energy textiles. <i>Nano Letters</i> , 2010 , 10, 708-14	11.5	1280
400	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , 2017 , 16, 572-579	27	1192
399	Interconnected silicon hollow nanospheres for lithium-ion battery anodes with long cycle life. <i>Nano Letters</i> , 2011 , 11, 2949-54	11.5	1155
398	Highly conductive paper for energy-storage devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21490-4	11.5	1048
397	Enhancing the supercapacitor performance of graphene/MnO ₂ nanostructured electrodes by conductive wrapping. <i>Nano Letters</i> , 2011 , 11, 4438-42	11.5	987
396	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. <i>Chemical Reviews</i> , 2016 , 116, 9305-74	68.1	802
395	Carbon nanotube thin films: fabrication, properties, and applications. <i>Chemical Reviews</i> , 2010 , 110, 5790-814	68.1	786
394	Na-Ion Battery Anodes: Materials and Electrochemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 231-40	24.3	750
393	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , 2013 , 8, 421-5	28.7	749
392	Thin, flexible secondary Li-ion paper batteries. <i>ACS Nano</i> , 2010 , 4, 5843-8	16.7	703
391	Potassium Ion Batteries with Graphitic Materials. <i>Nano Letters</i> , 2015 , 15, 7671-7	11.5	680
390	High-performance nanostructured supercapacitors on a sponge. <i>Nano Letters</i> , 2011 , 11, 5165-72	11.5	627
389	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , 2010 , 10, 4242-8	11.5	610
388	Flexible, solid-state, ion-conducting membrane with 3D garnet nanofiber networks for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7094-9	11.5	593

387	Next-Generation Lithium Metal Anode Engineering via Atomic Layer Deposition. <i>ACS Nano</i> , 2015 , 9, 5884-892	40.7	573
386	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018 , 359, 1489-1494	33.3	560
385	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018 , 554, 224-228	50.4	558
384	Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. <i>ACS Nano</i> , 2013 , 7, 6378-86	16.7	557
383	Symmetrical MnO ₂ -carbon nanotube-textile nanostructures for wearable pseudocapacitors with high mass loading. <i>ACS Nano</i> , 2011 , 5, 8904-13	16.7	540
382	Tin anode for sodium-ion batteries using natural wood fiber as a mechanical buffer and electrolyte reservoir. <i>Nano Letters</i> , 2013 , 13, 3093-100	11.5	511
381	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , 2017 , 3, e1601659	14.3	482
380	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1701028	21.8	472
379	Light-weight free-standing carbon nanotube-silicon films for anodes of lithium ion batteries. <i>ACS Nano</i> , 2010 , 4, 3671-8	16.7	460
378	Protected Lithium-Metal Anodes in Batteries: From Liquid to Solid. <i>Advanced Materials</i> , 2017 , 29, 1701169	24	452
377	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017 , 10, 538-545	35.4	451
376	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 2587-94	24	443
375	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017 , 29, 1701756	24	424
374	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12258-62	16.4	424
373	Challenges and Opportunities for Solar Evaporation. <i>Joule</i> , 2019 , 3, 683-718	27.8	420
372	A radiative cooling structural material. <i>Science</i> , 2019 , 364, 760-763	33.3	419
371	Conformal, Nanoscale ZnO Surface Modification of Garnet-Based Solid-State Electrolyte for Lithium Metal Anodes. <i>Nano Letters</i> , 2017 , 17, 565-571	11.5	416
370	Metal nanogrids, nanowires, and nanofibers for transparent electrodes. <i>MRS Bulletin</i> , 2011 , 36, 760-765	3.2	399

369	Transparent paper: fabrications, properties, and device applications. <i>Energy and Environmental Science</i> , 2014 , 7, 269-287	35.4	392
368	3D-Printed, All-in-One Evaporator for High-Efficiency Solar Steam Generation under 1 Sun Illumination. <i>Advanced Materials</i> , 2017 , 29, 1700981	24	387
367	Reducing Interfacial Resistance between Garnet-Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , 2017 , 29, 1606042	24	378
366	Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , 2013 , 6, 513-518	35.4	375
365	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. <i>Advanced Materials</i> , 2017 , 29, 1702714	24	374
364	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 1568-1575	35.4	368
363	Energy and environmental nanotechnology in conductive paper and textiles. <i>Energy and Environmental Science</i> , 2012 , 5, 6423	35.4	350
362	Highly transparent and flexible nanopaper transistors. <i>ACS Nano</i> , 2013 , 7, 2106-13	16.7	349
361	Novel nanostructured paper with ultrahigh transparency and ultrahigh haze for solar cells. <i>Nano Letters</i> , 2014 , 14, 765-73	11.5	348
360	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017 , 29, 1704107	24	346
359	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , 2016 , 28, 5181-7	24	342
358	Highly thermally conductive papers with percolative layered boron nitride nanosheets. <i>ACS Nano</i> , 2014 , 8, 3606-13	16.7	337
357	A High-Performance Self-Regenerating Solar Evaporator for Continuous Water Desalination. <i>Advanced Materials</i> , 2019 , 31, e1900498	24	336
356	High-capacity, low-tortuosity, and channel-guided lithium metal anode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3584-3589	11.5	331
355	Organic electrode for non-aqueous potassium-ion batteries. <i>Nano Energy</i> , 2015 , 18, 205-211	17.1	325
354	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1603486	24	291
353	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , 2017 , 11, 4275-4282	16.7	272
352	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. <i>Chemical Reviews</i> , 2020 , 120, 4257-4300	68.1	271

351	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , 2019 , 12, 1558-1567	35.4	269
350	Natural cellulose fiber as substrate for supercapacitor. <i>ACS Nano</i> , 2013 , 7, 6037-46	16.7	267
349	Paper supercapacitors by a solvent-free drawing method. <i>Energy and Environmental Science</i> , 2011 , 4, 3368	35.4	263
348	A Thermally Conductive Separator for Stable Li Metal Anodes. <i>Nano Letters</i> , 2015 , 15, 6149-54	11.5	262
347	Muscle-Inspired Highly Anisotropic, Strong, Ion-Conductive Hydrogels. <i>Advanced Materials</i> , 2018 , 30, e1801934	24	257
346	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 5265-5270	35.4	255
345	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018 , 28, 1707134	15.6	254
344	Biodegradable transparent substrates for flexible organic-light-emitting diodes. <i>Energy and Environmental Science</i> , 2013 , 6, 2105	35.4	249
343	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. <i>Chemical Society Reviews</i> , 2016 , 45, 6742-6765	58.5	243
342	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , 2017 , 1, 588-599	27.8	242
341	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. <i>Advanced Energy Materials</i> , 2017 , 7, 1601526	21.8	238
340	Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018 , 30, 1703453	24	229
339	Lightweight, Mesoporous, and Highly Absorptive All-Nanofiber Aerogel for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1104-1112	9.5	227
338	Graphene oxide-based evaporator with one-dimensional water transport enabling high-efficiency solar desalination. <i>Nano Energy</i> , 2017 , 41, 201-209	17.1	226
337	Thick Electrode Batteries: Principles, Opportunities, and Challenges. <i>Advanced Energy Materials</i> , 2019 , 9, 1901457	21.8	221
336	Structure-property-function relationships of natural and engineered wood. <i>Nature Reviews Materials</i> , 2020 , 5, 642-666	73.3	220
335	MWCNT/V2O5 core/shell sponge for high areal capacity and power density Li-ion cathodes. <i>ACS Nano</i> , 2012 , 6, 7948-55	16.7	219
334	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. <i>ACS Nano</i> , 2018 , 12, 140-147	16.7	215

- 333 Developing fibrillated cellulose as a sustainable technological material. *Nature*, **2021**, 590, 47-56 50.4 213
- 332 Nanocellulose as green dispersant for two-dimensional energy materials. *Nano Energy*, **2015**, 13, 346-354 7.1 208
- 331 Transparent lithium-ion batteries. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 13013-8 11.5 208
- 330 Silicon-Carbon Nanotube Coaxial Sponge as Li-Ion Anodes with High Areal Capacity. *Advanced Energy Materials*, **2011**, 1, 523-527 21.8 206
- 329 Lithium-Ion Textile Batteries with Large Areal Mass Loading. *Advanced Energy Materials*, **2011**, 1, 1012-1017 11.8 205
- 328 Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600377 21.8 205
- 327 Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. *Science Advances*, **2018**, 4, eaar3724 14.3 204
- 326 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, 8971-6 11.5 203
- 325 Transient Electronics: Materials and Devices. *Chemistry of Materials*, **2016**, 28, 3527-3539 9.6 200
- 324 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 11.5 191
- 323 Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. *Nature Materials*, **2019**, 18, 608-613 27 187
- 322 Porous amorphous FePO₄ nanoparticles connected by single-wall carbon nanotubes for sodium ion battery cathodes. *Nano Letters*, **2012**, 12, 5664-8 11.5 186
- 321 Transparent nanopaper with tailored optical properties. *Nanoscale*, **2013**, 5, 3787-92 7.7 185
- 320 3D-Printed All-Fiber Li-Ion Battery toward Wearable Energy Storage. *Advanced Functional Materials*, **2017**, 27, 1703140 15.6 184
- 319 Garnet Solid Electrolyte Protected Li-Metal Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 18809-18815 9.5 181
- 318 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 11.5 178
- 317 Scalable holey graphene synthesis and dense electrode fabrication toward high-performance ultracapacitors. *ACS Nano*, **2014**, 8, 8255-65 16.7 177
- 316 Aqueous supercapacitors on conductive cotton. *Nano Research*, **2010**, 3, 452-458 10 176

315	High-Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. <i>Advanced Energy Materials</i> , 2018 , 8, 1701616	21.8	174
314	Atomic-layer-deposition oxide nanoglue for sodium ion batteries. <i>Nano Letters</i> , 2014 , 14, 139-47	11.5	173
313	Nanostructured paper for flexible energy and electronic devices. <i>MRS Bulletin</i> , 2013 , 38, 320-325	3.2	173
312	Printed energy storage devices by integration of electrodes and separators into single sheets of paper. <i>Applied Physics Letters</i> , 2010 , 96, 183502	3.4	171
311	Reactivation of dissolved polysulfides in LiS batteries based on atomic layer deposition of Al ₂ O ₃ in nanoporous carbon cloth. <i>Nano Energy</i> , 2013 , 2, 1197-1206	17.1	169
310	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. <i>Nature Communications</i> , 2019 , 10, 4011	17.4	168
309	Scalable and Sustainable Approach toward Highly Compressible, Anisotropic, Lamellar Carbon Sponge. <i>CheM</i> , 2018 , 4, 544-554	16.2	167
308	Approaching the limits of transparency and conductivity in graphitic materials through lithium intercalation. <i>Nature Communications</i> , 2014 , 5, 4224	17.4	166
307	Three-Dimensional Printed Thermal Regulation Textiles. <i>ACS Nano</i> , 2017 , 11, 11513-11520	16.7	165
306	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1705651	24	164
305	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14942-14947	16.4	160
304	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019 , 14, 851-857	28.7	159
303	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017 , 7, 1700595	21.8	156
302	3D Wettable Framework for Dendrite-Free Alkali Metal Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1800635	16.35	155
301	Optical haze of transparent and conductive silver nanowire films. <i>Nano Research</i> , 2013 , 6, 461-468	10	155
300	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , 2016 , 6, 1601122	21.8	154
299	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020 , 368, 521-526	33.3	153
298	Nanocellulose toward Advanced Energy Storage Devices: Structure and Electrochemistry. <i>Accounts of Chemical Research</i> , 2018 , 51, 3154-3165	24.3	152

297	A cellulose based hydrophilic, oleophobic hydrated filter for water/oil separation. <i>Chemical Communications</i> , 2014 , 50, 13296-9	5.8	151
296	Si nanoparticle-decorated Si nanowire networks for Li-ion battery anodes. <i>Chemical Communications</i> , 2011 , 47, 367-9	5.8	149
295	Transparent and haze wood composites for highly efficient broadband light management in solar cells. <i>Nano Energy</i> , 2016 , 26, 332-339	17.1	149
294	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. <i>Materials Today</i> , 2019 , 22, 50-57	21.8	147
293	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016 , 16, 3616-23	11.5	146
292	3D-Printing Electrolytes for Solid-State Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707132	24	142
291	Electrode Materials of Sodium-Ion Batteries toward Practical Application. <i>ACS Energy Letters</i> , 2018 , 3, 1604-1612	20.1	141
290	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017 , 10, 1356-1365	10	139
289	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 1606284	14	137
288	Three-Dimensional Printable High-Temperature and High-Rate Heaters. <i>ACS Nano</i> , 2016 , 10, 5272-9	16.7	137
287	Flexible Batteries: From Mechanics to Devices. <i>ACS Energy Letters</i> , 2016 , 1, 1065-1079	20.1	135
286	Interface Engineering for Garnet-Based Solid-State Lithium-Metal Batteries: Materials, Structures, and Characterization. <i>Advanced Materials</i> , 2018 , 30, e1802068	24	135
285	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. <i>ACS Nano</i> , 2016 , 10, 1369-77	16.7	133
284	Low temperature carbonization of cellulose nanocrystals for high performance carbon anode of sodium-ion batteries. <i>Nano Energy</i> , 2017 , 33, 37-44	17.1	130
283	An Electron/Ion Dual-Conductive Alloy Framework for High-Rate and High-Capacity Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019 , 31, e1804815	24	128
282	Super-Strong, Super-Stiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 1702498	24	127
281	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701963	21.8	125
280	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2204-10	9.5	124

279	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 2920-2927	15.6	123
278	Narrow bandgap semiconductor decorated wood membrane for high-efficiency solar-assisted water purification. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18839-18846	13	121
277	Silver nanowire transparent conducting paper-based electrode with high optical haze. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1248-1254	7.1	120
276	A perylene anhydride crystal as a reversible electrode for K-ion batteries. <i>Energy Storage Materials</i> , 2016 , 2, 63-68	19.4	119
275	Flexible, Scalable, and Highly Conductive Garnet-Polymer Solid Electrolyte Templated by Bacterial Cellulose. <i>Advanced Energy Materials</i> , 2018 , 8, 1703474	21.8	117
274	In Situ Neutron Depth Profiling of Lithium Metal-Garnet Interfaces for Solid State Batteries. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14257-14264	16.4	117
273	Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , 2017 , 11, 4801-4807	16.7	113
272	FeS ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, High-Performance Electrocatalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700482	21.8	112
271	Reduced graphene oxide film with record-high conductivity and mobility. <i>Materials Today</i> , 2018 , 21, 186-198	11.8	110
270	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1701450	15.6	109
269	Hierarchically Porous, Ultrathick, Breathable Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701203	21.8	109
268	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1802398	21.8	108
267	Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. <i>Nano Letters</i> , 2018 , 18, 3926-3933	11.5	108
266	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23291-6	9.5	101
265	Atomic force microscopy studies on molybdenum disulfide flakes as sodium-ion anodes. <i>Nano Letters</i> , 2015 , 15, 1018-24	11.5	99
264	Highly transparent and writable wood all-cellulose hybrid nanostructured paper. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6191	7.1	98
263	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <i>Matter</i> , 2020 , 2, 390-403	12.7	98
262	Ultrahigh-Capacity Lithium-Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. <i>Nano Letters</i> , 2017 , 17, 3252-3260	11.5	97

261	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. <i>ACS Nano</i> , 2019 , 13, 4843-4853	16.7	97
260	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , 2018 , 28, 1707491	15.6	96
259	Highly transparent paper with tunable haze for green electronics. <i>Energy and Environmental Science</i> , 2014 , 7, 3313-3319	35.4	96
258	Strong transparent magnetic nanopaper prepared by immobilization of Fe ₃ O ₄ nanoparticles in a nanofibrillated cellulose network. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15278	13	96
257	3D-Printed Graphene Oxide Framework with Thermal Shock Synthesized Nanoparticles for Li-CO ₂ Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1805899	15.6	95
256	High Temperature Carbonized Grass as a High Performance Sodium Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 391-397	9.5	94
255	Lithium-ion conductive ceramic textile: A new architecture for flexible solid-state lithium metal batteries. <i>Materials Today</i> , 2018 , 21, 594-601	21.8	93
254	Scalable, anisotropic transparent paper directly from wood for light management in solar cells. <i>Nano Energy</i> , 2017 , 36, 366-373	17.1	90
253	Cellulose-Nanofiber-Enabled 3D Printing of a Carbon-Nanotube Microfiber Network. <i>Small Methods</i> , 2017 , 1, 1700222	12.8	89
252	Infrared transparent carbon nanotube thin films. <i>Applied Physics Letters</i> , 2009 , 94, 081103	3.4	89
251	Superflexible Wood. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23520-23527	9.5	88
250	Lignin as a Wood-Inspired Binder Enabled Strong, Water Stable, and Biodegradable Paper for Plastic Replacement. <i>Advanced Functional Materials</i> , 2020 , 30, 1906307	15.6	87
249	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , 2015 , 9, 7399-406	16.7	85
248	Depolarized and fully active cathode based on Li(Ni _{0.5} Co _{0.2} Mn _{0.3})O ₂ embedded in carbon nanotube network for advanced batteries. <i>Nano Letters</i> , 2014 , 14, 4700-6	11.5	85
247	Light management in plastic/paper hybrid substrate towards high-performance optoelectronics. <i>Energy and Environmental Science</i> , 2016 , 9, 2278-2285	35.4	85
246	Synergistic Ultrathin Functional Polymer-Coated Carbon Nanotube Interlayer for High Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20092-9	9.5	84
245	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. <i>Advanced Functional Materials</i> , 2014 , 24, 7366-7372	15.6	82
244	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , 2019 , 5, eaau4238	42.38	81

243	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , 2014 , 5, 5670	17.4	79
242	In Situ Investigations of Li-MoS ₂ with Planar Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401742	21.8	78
241	A gravure printed antenna on shape-stable transparent nanopaper. <i>Nanoscale</i> , 2014 , 6, 9110-5	7.7	78
240	Transient, in situ synthesis of ultrafine ruthenium nanoparticles for a high-rate Li ₂ O ₂ battery. <i>Energy and Environmental Science</i> , 2019 , 12, 1100-1107	35.4	77
239	Free-standing Na _(2/3) Fe _(1/2) Mn _(1/2) O ₍₂₎ @graphene film for a sodium-ion battery cathode. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4242-7	9.5	76
238	Fast and scalable printing of large area monolayer nanoparticles for nanotexturing applications. <i>Nano Letters</i> , 2010 , 10, 2989-94	11.5	76
237	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. <i>NPG Asia Materials</i> , 2015 , 7, e150-e150	10.3	75
236	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018 , 30, e1801347	24	75
235	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li ₂ O ₂ Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802964	21.8	74
234	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016 , 7, 12332	17.4	74
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107	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , 2016 , 52, 5757-60	5.8	23
106	Strong, Hydrostable, and Degradable Straws Based on Cellulose-Lignin Reinforced Composites. <i>Small</i> , 2021 , 17, e2008011	11	22
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103	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. <i>Advanced Materials</i> , 2021 , 33, e2005538	24	21
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83	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , 2021 , 33, e2005305	24	16
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80	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019 , 15, e1904881	11	15
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75	A self-buffering structure for application in high-performance sodium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 15, 242-248	19.4	14
74	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29773-29779	9.5	14
73	A conductive wood membrane anode improves effluent quality of microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 940-946	4.2	14
72	In Situ Wood Delignification toward Sustainable Applications. <i>Accounts of Materials Research</i> , 2021 , 2, 606-620	7.5	14
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