

Liangbing Hu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

404
papers

56,342
citations

124
h-index

230
g-index

425
ext. papers

67,107
ext. citations

16.8
avg, IF

8.06
L-index

#	Paper	IF	Citations
404	Rapid Synthesis of High-Entropy Oxide Microparticles.. <i>Small</i> , 2022 , e2104761	11	3
403	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition.. <i>Science Advances</i> , 2022 , 8, eabm4322	14.3	5
402	Upscaling 3D Engineered Trees for Off-Grid Desalination.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	4
401	Boron-Nitride Nanosheet-Based Thermal Barrier Coating for Micro-Combustor Performance Improvement. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	1
400	Ta ₂ O ₅ nanoparticles as radical scavengers to improve the durability of Fe/Ni oxygen reduction catalysts. <i>Nature Energy</i> , 2022 , 7, 281-289	62.3	13
399	Rapid Pressureless Sintering of Glasses.. <i>Small</i> , 2022 , e2107951	11	1
398	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery.. <i>Science</i> , 2022 , 376, eabn3103	33.3	19
397	Sustainable high-strength macrofibres extracted from natural bamboo. <i>Nature Sustainability</i> , 2022 , 5, 235-244	22.1	10
396	Engineered wood for a sustainable future. <i>Matter</i> , 2022 , 5, 1326-1329	12.7	1
395	Programmable heating and quenching for efficient thermochemical synthesis.. <i>Nature</i> , 2022 , 605, 470-476	56.4	3
394	A low-corrosivity structural timber. <i>Cell Reports Physical Science</i> , 2022 , 100921	6.1	0
393	Composition-dependent structure and properties of 5- and 15-element high-entropy alloy nanoparticles. <i>Cell Reports Physical Science</i> , 2021 , 2, 100641	6.1	1
392	Interface Engineering Between multi-elemental alloy Nanoparticles and Carbon Support Toward Stable Catalysts. <i>Advanced Materials</i> , 2021 , e2106436	24	4
391	Copper-coordinated cellulose ion conductors for solid-state batteries. <i>Nature</i> , 2021 , 598, 590-596	50.4	49
390	Lightweight, strong, moldable wood via cell wall engineering as a sustainable structural material. <i>Science</i> , 2021 , 374, 465-471	33.3	18
389	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. <i>ACS Nano</i> , 2021 , 15, 3646-3673	16.7	30
388	Advanced Nanowood Materials for the Water-Energy Nexus. <i>Advanced Materials</i> , 2021 , 33, e2001240	24	28

387	Nanoscale Ion Regulation in Wood-Based Structures and Their Device Applications. <i>Advanced Materials</i> , 2021 , 33, e2002890	24	24
386	Carbon-Supported High-Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2010561	15.6	21
385	Determining the three-dimensional atomic structure of an amorphous solid. <i>Nature</i> , 2021 , 592, 60-64	50.4	57
384	Strong, Hydrostable, and Degradable Straws Based on Cellulose-Lignin Reinforced Composites. <i>Small</i> , 2021 , 17, e2008011	11	22
383	A strong, biodegradable and recyclable lignocellulosic bioplastic. <i>Nature Sustainability</i> , 2021 , 4, 627-635	22.1	74
382	Cellulose Nanofiber Templating: Recent Advances in Functional Materials through Cellulose Nanofiber Templating (Adv. Mater. 12/2021). <i>Advanced Materials</i> , 2021 , 33, 2170094	24	
381	Rapid Synthesis and Sintering of Metals from Powders. <i>Advanced Science</i> , 2021 , 8, e2004229	13.6	5
380	Critical roles of pores and moisture in sustainable nanocellulose-based super-thermal insulators. <i>Matter</i> , 2021 , 4, 769-772	12.7	3
379	Ion-Conducting, Electron-Blocking Layer for High-Performance Solid Electrolytes. <i>Small Structures</i> , 2021 , 2, 2100014	8.7	11
378	Continuous Fly-Through High-Temperature Synthesis of Nanocatalysts. <i>Nano Letters</i> , 2021 , 21, 4517-4523	11.5	2
377	3D-Printed, High-Porosity, High-Strength Graphite Aerogel.. <i>Small Methods</i> , 2021 , 5, e2001188	12.8	5
376	3D Printed Graphene-Based 3000 K Probe. <i>Advanced Functional Materials</i> , 2021 , 31, 2102994	15.6	8
375	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021 , 4, 2340-2353	12.7	30
374	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	11.5	3
373	Scalable Wood Hydrogel Membrane with Nanoscale Channels. <i>ACS Nano</i> , 2021 ,	16.7	10
372	Cellulose Nanocomposites of Cellulose Nanofibers and Molecular Coils. <i>Journal of Composites Science</i> , 2021 , 5, 200	3	0
371	High-Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solid-State Electrolyte Scaffolds. <i>Advanced Materials</i> , 2021 , 33, e2100726	24	8
370	Tailoring grain growth and densification toward a high-performance solid-state electrolyte membrane. <i>Materials Today</i> , 2021 , 42, 41-48	21.8	13

369	High-Entropy Metal Sulfide Nanoparticles Promise High-Performance Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021 , 11, 2002887	21.8	67
368	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021 , 4, 62-70	36.5	45
367	Solar-assisted fabrication of large-scale, patternable transparent wood. <i>Science Advances</i> , 2021 , 7,	14.3	28
366	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	13	2
365	In Situ Lignin Modification toward Photonic Wood. <i>Advanced Materials</i> , 2021 , 33, e2001588	24	27
364	Rapid, Universal Surface Engineering of Carbon Materials via Microwave-Induced Carbothermal Shock. <i>Advanced Functional Materials</i> , 2021 , 31, 2010968	15.6	9
363	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. <i>Advanced Materials</i> , 2021 , 33, e2005538	24	21
362	Developing fibrillated cellulose as a sustainable technological material. <i>Nature</i> , 2021 , 590, 47-56	50.4	213
361	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , 2021 , 33, e2005305	24	16
360	A high-entropy phosphate catalyst for oxygen evolution reaction. <i>Nano Energy</i> , 2021 , 86, 106029	17.1	20
359	Scalable Synthesis of High Entropy Alloy Nanoparticles by Microwave Heating. <i>ACS Nano</i> , 2021 , 15, 1492861-149371	26.1	143
358	In Situ Wood Delignification toward Sustainable Applications. <i>Accounts of Materials Research</i> , 2021 , 2, 606-620	7.5	14
357	Wood Ionic Cable. <i>Small</i> , 2021 , 17, e2008200	11	2
356	Tailoring the Local Environment of Platinum in Single-Atom Pt /CeO Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26054-26062	16.4	15
355	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. <i>Nature Communications</i> , 2020 , 11, 6373	17.4	20
354	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020 , 368, 521-526	33.3	153
353	Structure-Property-Function relationships of natural and engineered wood. <i>Nature Reviews Materials</i> , 2020 , 5, 642-666	73.3	220
352	Reversible Short-Circuit Behaviors in Garnet-Based Solid-State Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000702	21.8	31

351	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. <i>Chemistry of Materials</i> , 2020 , 32, 5280-5289	9.6	52
350	Thermal Shock Synthesis of Nanocatalyst by 3D-Printed Miniaturized Reactors. <i>Small</i> , 2020 , 16, e2000509	9	
349	Hierarchical Polyelemental Nanoparticles as Bifunctional Catalysts for Oxygen Evolution and Reduction Reactions. <i>Advanced Energy Materials</i> , 2020 , 10, 2001119	21.8	29
348	Wood Cellulose Paper for Solar Cells 2020 , 279-295		3
347	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. <i>Science Advances</i> , 2020 , 6, eaaz0510	14.3	60
346	Strong and Superhydrophobic Wood with Aligned Cellulose Nanofibers as a Waterproof Structural Material <i>Chinese Journal of Chemistry</i> , 2020 , 38, 823-829	4.9	9
345	Highly Efficient Water Treatment via a Wood-Based and Reusable Filter 2020 , 2, 430-437		24
344	Lignin-Based Direct Ink Printed Structural Scaffolds. <i>Small</i> , 2020 , 16, e1907212	11	20
343	Thermal Radiation Synthesis of Ultrafine Platinum Nanoclusters toward Methanol Oxidation. <i>Small Methods</i> , 2020 , 4, 2000265	12.8	6
342	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	5.6	5
341	Aerosol Synthesis of High Entropy Alloy Nanoparticles. <i>Langmuir</i> , 2020 , 36, 1985-1992	4	32
340	Holey three-dimensional wood-based electrode for vanadium flow batteries. <i>Energy Storage Materials</i> , 2020 , 27, 327-332	19.4	27
339	A Strong, Tough, and Scalable Structural Material from Fast-Growing Bamboo. <i>Advanced Materials</i> , 2020 , 32, e1906308	24	69
338	Fire-Resistant Structural Material Enabled by an Anisotropic Thermally Conductive Hexagonal Boron Nitride Coating. <i>Advanced Functional Materials</i> , 2020 , 30, 1909196	15.6	37
337	High-Performance, Scalable Wood-Based Filtration Device with a Reversed-Tree Design. <i>Chemistry of Materials</i> , 2020 , 32, 1887-1895	9.6	29
336	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	5
335	All-Natural, Degradable, Rolled-Up Straws Based on Cellulose Micro- and Nano-Hybrid Fibers. <i>Advanced Functional Materials</i> , 2020 , 30, 1910417	15.6	38
334	Garnet-Type Solid-State Electrolytes: Materials, Interfaces, and Batteries. <i>Chemical Reviews</i> , 2020 , 120, 4257-4300	68.1	271

333	Rapid Processing of Whole Bamboo with Exposed, Aligned Nanofibrils toward a High-Performance Structural Material. <i>ACS Nano</i> , 2020 , 14, 5194-5202	16.7	36
332	Overcoming immiscibility toward bimetallic catalyst library. <i>Science Advances</i> , 2020 , 6, eaaz6844	14.3	42
331	Rapid, high-temperature microwave soldering toward a high-performance cathode/electrolyte interface. <i>Energy Storage Materials</i> , 2020 , 30, 385-391	19.4	24
330	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
329	A Clear, Strong, and Thermally Insulated Transparent Wood for Energy Efficient Windows. <i>Advanced Functional Materials</i> , 2020 , 30, 1907511	15.6	50
328	Continuous 2000 K droplet-to-particle synthesis. <i>Materials Today</i> , 2020 , 35, 106-114	21.8	18
327	An Energy-Efficient, Wood-Derived Structural Material Enabled by Pore Structure Engineering towards Building Efficiency. <i>Small Methods</i> , 2020 , 4, 1900747	12.8	28
326	Giant tunability of interlayer friction in graphite via ion intercalation. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100616	3.9	4
325	Salinity-Gradient Power Generation with Ionized Wood Membranes. <i>Advanced Energy Materials</i> , 2020 , 10, 1902590	21.8	47
324	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <i>Matter</i> , 2020 , 2, 390-403	12.7	98
323	A General Method for Regenerating Catalytic Electrodes. <i>Joule</i> , 2020 , 4, 2374-2386	27.8	9
322	Computation-Guided Synthesis of New Garnet-Type Solid-State Electrolytes via an Ultrafast Sintering Technique. <i>Advanced Materials</i> , 2020 , 32, e2005059	24	5
321	Continuous Synthesis of Hollow High-Entropy Nanoparticles for Energy and Catalysis Applications. <i>Advanced Materials</i> , 2020 , 32, e2002853	24	32
320	Printable, high-performance solid-state electrolyte films. <i>Science Advances</i> , 2020 , 6,	14.3	25
319	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	8.9	6
318	Scalable aesthetic transparent wood for energy efficient buildings. <i>Nature Communications</i> , 2020 , 11, 3836	17.4	71
317	Highly Elastic Hydrated Cellulosic Materials with Durable Compressibility and Tunable Conductivity. <i>ACS Nano</i> , 2020 ,	16.7	35
316	Electrochemical measurement of serotonin by Au-CNT electrodes fabricated on microporous cell culture membranes. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 90	7.7	9

3 ¹⁵	High-Temperature Pulse Method for Nanoparticle Redispersion. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17364-17371	16.4	10
3 ¹⁴	A strong, flame-retardant, and thermally insulating wood laminate. <i>Chemical Engineering Journal</i> , 2020 , 383, 123109	14.7	27
3 ¹³	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	11.5	50
3 ¹²	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. <i>Matter</i> , 2019 , 1, 759-769	12.7	34
3 ¹¹	A Highly Conductive Cationic Wood Membrane. <i>Advanced Functional Materials</i> , 2019 , 29, 1902772	15.6	42
3 ¹⁰	Highly efficient decomposition of ammonia using high-entropy alloy catalysts. <i>Nature Communications</i> , 2019 , 10, 4011	17.4	168
3 ⁰⁹	Clear Wood toward High-Performance Building Materials. <i>ACS Nano</i> , 2019 , 13, 9993-10001	16.7	70
3 ⁰⁸	In situ TEM Observation of Nanoparticles Formation during Carbothermal Shock. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1534-1535	0.5	
3 ⁰⁷	General, Vertical, Three-Dimensional Printing of Two-Dimensional Materials with Multiscale Alignment. <i>ACS Nano</i> , 2019 , 13, 12653-12661	16.7	49
3 ⁰⁶	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible LiO ₂ Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1802964	21.8	74
3 ⁰⁵	Molecular partitioning in ternary solutions of cellulose. <i>Carbohydrate Polymers</i> , 2019 , 220, 157-162	10.3	3
3 ⁰⁴	Wood cellulose-based thin gel electrolyte with enhanced ionic conductivity. <i>MRS Communications</i> , 2019 , 9, 1015-1021	2.7	9
3 ⁰³	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	5.6	14
3 ⁰²	A silicon anode for garnet-based all-solid-state batteries: Interfaces and nanomechanics. <i>Energy Storage Materials</i> , 2019 , 21, 246-252	19.4	26
3 ⁰¹	In situ iron coating on nanocatalysts for efficient and durable oxygen evolution reaction. <i>Nano Energy</i> , 2019 , 63, 103855	17.1	17
3 ⁰⁰	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	3.9	18
2 ⁹⁹	Thermoelectric properties enhancement of p-type composite films using wood-based binder and mechanical pressing. <i>Scientific Reports</i> , 2019 , 9, 7869	4.9	6
2 ⁹⁸	A radiative cooling structural material. <i>Science</i> , 2019 , 364, 760-763	33.3	419

297	Selectively aligned cellulose nanofibers towards high-performance soft actuators. <i>Extreme Mechanics Letters</i> , 2019 , 29, 100463	3.9	37
296	A printed, recyclable, ultra-strong, and ultra-tough graphite structural material. <i>Materials Today</i> , 2019 , 30, 17-25	21.8	51
295	Thermally Conductive Reduced Graphene Oxide Thin Films for Extreme Temperature Sensors. <i>Advanced Functional Materials</i> , 2019 , 29, 1901388	15.6	35
294	A High-Performance Self-Regenerating Solar Evaporator for Continuous Water Desalination. <i>Advanced Materials</i> , 2019 , 31, e1900498	24	336
293	Scalable Dry Processing of Binder-Free Lithium-Ion Battery Electrodes Enabled by Holey Graphene. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2990-2997	6.1	27
292	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019 , 18, 608-613	27	187
291	Fly-through synthesis of nanoparticles on textile and paper substrates. <i>Nanoscale</i> , 2019 , 11, 6174-6181	7.7	11
290	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
289	Ultrahigh Tough, Super Clear, and Highly Anisotropic Nanofiber-Structured Regenerated Cellulose Films. <i>ACS Nano</i> , 2019 , 13, 4843-4853	16.7	97
288	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019 , 12, 2259-2267	10	57
287	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019 , 29, 1900162	15.6	64
286	Cellulose hydrogel as a flexible gel electrolyte layer. <i>MRS Communications</i> , 2019 , 9, 122-128	2.7	18
285	Challenges and Opportunities for Solar Evaporation. <i>Joule</i> , 2019 , 3, 683-718	27.8	420
284	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , 2019 , 5, eaau4238	14.38	81
283	High-rate lithium cycling in a scalable trilayer Li-garnet-electrolyte architecture. <i>Materials Today</i> , 2019 , 22, 50-57	21.8	147
282	All Natural, High Efficient Groundwater Extraction via Solar Steam/Vapor Generation. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800055	5.9	56
281	Nanocellulose-based films and their emerging applications. <i>Current Opinion in Solid State and Materials Science</i> , 2019 , 23, 100764	12	62
280	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood 2019 , 1, 354-361		34

279	High temperature shockwave stabilized single atoms. <i>Nature Nanotechnology</i> , 2019 , 14, 851-857	28.7	159
278	Hydrophobic nanostructured wood membrane for thermally efficient distillation. <i>Science Advances</i> , 2019 , 5, eaaw3203	14.3	47
277	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. <i>Nano Letters</i> , 2019 , 19, 5149-5158	11.5	59
276	Super Elastic and Thermally Insulating Carbon Aerogel: Go Tubular Like Polar Bear Hair. <i>Matter</i> , 2019 , 1, 36-38	12.7	7
275	Thick Electrode Batteries: Principles, Opportunities, and Challenges. <i>Advanced Energy Materials</i> , 2019 , 9, 1901457	21.8	221
274	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29773-29779	9.5	14
273	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. <i>Advanced Fiber Materials</i> , 2019 , 1, 61-70	10.9	25
272	Decoupling Ionic and Electronic Pathways in Low-Dimensional Hybrid Conductors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17830-17837	16.4	20
271	Flexible Garnet Solid-State Electrolyte Membranes Enabled by Tile-and-Grout Design. <i>ACS Energy Letters</i> , 2019 , 4, 2668-2674	20.1	33
270	Synthesis of Metal Oxide Nanoparticles by Rapid, High-Temperature 3D Microwave Heating. <i>Advanced Functional Materials</i> , 2019 , 29, 1904282	15.6	40
269	Precision Imprinted Nanostructural Wood. <i>Advanced Materials</i> , 2019 , 31, e1903270	24	20
268	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019 , 15, e1904881	11	15
267	Single-digit-micrometer thickness wood speaker. <i>Nature Communications</i> , 2019 , 10, 5084	17.4	28
266	Strong, Water-Stable Ionic Cable from Bio-Hydrogel. <i>Chemistry of Materials</i> , 2019 , 31, 9288-9294	9.6	15
265	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
264	Dense, Self-Formed Char Layer Enables a Fire-Retardant Wood Structural Material. <i>Advanced Functional Materials</i> , 2019 , 29, 1807444	15.6	63
263	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	7.7	7
262	Overcoming Immiscibility via a Milliseconds-Long Shock Synthesis toward Alloyed Nanoparticles. <i>Matter</i> , 2019 , 1, 1451-1453	12.7	4

261	Architecting a Floatable, Durable, and Scalable Steam Generator: Hydrophobic/Hydrophilic Bifunctional Structure for Solar Evaporation Enhancement. <i>Small Methods</i> , 2019 , 3, 1800176	12.8	54
260	Ultrahigh-temperature conversion of biomass to highly conductive graphitic carbon. <i>Carbon</i> , 2019 , 144, 241-248	10.4	28
259	A general, highly efficient, high temperature thermal pulse toward high performance solid state electrolyte. <i>Energy Storage Materials</i> , 2019 , 17, 234-241	19.4	30
258	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
257	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	9.5	6
256	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5919-5927	9.5	60
255	Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. <i>Materials Today</i> , 2019 , 24, 26-32	21.8	32
254	Dramatic Enhancement of CO ₂ Photoreduction by Biodegradable Light-Management Paper. <i>Advanced Energy Materials</i> , 2018 , 8, 1703136	21.8	24
253	Necklace-Like Silicon Carbide and Carbon Nanocomposites Formed by Steady Joule Heating. <i>Small Methods</i> , 2018 , 2, 1700371	12.8	11
252	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , 2018 , 28, 1707491	15.6	96
251	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
250	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018 , 4, eaar3724	14.3	204
249	Scalable and Sustainable Approach toward Highly Compressible, Anisotropic, Lamellar Carbon Sponge. <i>Chem</i> , 2018 , 4, 544-554	16.2	167
248	Flexible, Scalable, and Highly Conductive Garnet-Polymer Solid Electrolyte Templated by Bacterial Cellulose. <i>Advanced Energy Materials</i> , 2018 , 8, 1703474	21.8	117
247	3D lithium metal anodes hosted in asymmetric garnet frameworks toward high energy density batteries. <i>Energy Storage Materials</i> , 2018 , 14, 376-382	19.4	73
246	A self-buffering structure for application in high-performance sodium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 15, 242-248	19.4	14
245	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
244	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. <i>Nature Energy</i> , 2018 , 3, 148-156	62.3	69

243	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7362-7370	9.5	33
242	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018 , 30, e1705651	24	164
241	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2625-2629	16.4	5
240	Tuning the High-Temperature Wetting Behavior of Metals toward Ultrafine Nanoparticles. <i>Angewandte Chemie</i> , 2018 , 130, 2655-2659	3.6	0
239	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018 , 554, 224-228	50.4	558
238	Highly Compressible, Anisotropic Aerogel with Aligned Cellulose Nanofibers. <i>ACS Nano</i> , 2018 , 12, 140-147	17.7	215
237	3D printed separator for the thermal management of high-performance Li metal anodes. <i>Energy Storage Materials</i> , 2018 , 12, 197-203	19.4	65
236	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018 , 359, 1489-1494	33.3	560
235	Continuous plating/stripping behavior of solid-state lithium metal anode in a 3D ion-conductive framework. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3770-3775	11.5	178
234	3D-Printing Electrolytes for Solid-State Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707132	24	142
233	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701963	21.8	125
232	Plasmonic Wood for High-Efficiency Solar Steam Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1701028	21.8	472
231	Hierarchically Porous, Ultrathick, Breathable Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1701203	21.8	109
230	Isotropic Paper Directly from Anisotropic Wood: Top-Down Green Transparent Substrate Toward Biodegradable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28566-28571	9.5	49
229	In Situ Chainmail Catalyst Assembly in Low-Tortuosity, Hierarchical Carbon Frameworks for Efficient and Stable Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1801289	21.8	44
228	High-Temperature Atomic Mixing toward Well-Dispersed Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018 , 8, 1800466	21.8	24
227	3D Wettable Framework for Dendrite-Free Alkali Metal Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1800635	21.8	155
226	All-in-one lithium-sulfur battery enabled by a porous-dense-porous garnet architecture. <i>Energy Storage Materials</i> , 2018 , 15, 458-464	19.4	73

225	3D Microstructure Reconstruction and Characterization of Solid-State Electrolyte with Varying Porosity. <i>Microscopy and Microanalysis</i> , 2018 , 24, 814-815	0.5	
224	Muscle-Inspired Highly Anisotropic, Strong, Ion-Conductive Hydrogels. <i>Advanced Materials</i> , 2018 , 30, e1801934	24	257
223	A flexible solar-blind 2D boron nitride nanopaper-based photodetector with high thermal resistance. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	46
222	Electrode Materials of Sodium-Ion Batteries toward Practical Application. <i>ACS Energy Letters</i> , 2018 , 3, 1604-1612	20.1	141
221	From Wood to Textiles: Top-Down Assembly of Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2018 , 30, e1801347	24	75
220	Catalyst-Free Carbon Nanotube Growth in Confined Space High Temperature Gradient. <i>Research</i> , 2018 , 2018, 1793784	7.8	6
219	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
218	Wood-Based Nanotechnologies toward Sustainability. <i>Advanced Materials</i> , 2018 , 30, 1703453	24	229
217	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
216	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. <i>Advanced Materials</i> , 2018 , 30, 1704907	24	63
215	Highly Conductive, Light Weight, Robust, Corrosion-Resistant, Scalable, All-Fiber Based Current Collectors for Aqueous Acidic Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702615	21.8	46
214	Reduced graphene oxide film with record-high conductivity and mobility. <i>Materials Today</i> , 2018 , 21, 186-198	110	
213	Flexible lithium ₂ CO ₂ battery with ultrahigh capacity and stable cycling. <i>Energy and Environmental Science</i> , 2018 , 11, 3231-3237	35.4	74
212	Nanocellulose toward Advanced Energy Storage Devices: Structure and Electrochemistry. <i>Accounts of Chemical Research</i> , 2018 , 51, 3154-3165	24.3	152
211	Interface Engineering for Garnet-Based Solid-State Lithium-Metal Batteries: Materials, Structures, and Characterization. <i>Advanced Materials</i> , 2018 , 30, e1802068	24	135
210	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
209	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1802398	21.8	108
208	Flexible, Bio-Compatible Nanofluidic Ion Conductor. <i>Chemistry of Materials</i> , 2018 , 30, 7707-7713	9.6	36

207	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
206	Dynamics of a Water Nanodrop through a Holey Graphene Matrix: Role of Surface Functionalization, Capillarity, and Applied Forcing. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12243-12250	38	5
205	Three-Dimensional, Solid-State Mixed Electron-Ion Conductive Framework for Lithium Metal Anode. <i>Nano Letters</i> , 2018 , 18, 3926-3933	11.5	108
204	Mixed ionic-electronic conductor enabled effective cathode-electrolyte interface in all solid state batteries. <i>Nano Energy</i> , 2018 , 50, 393-400	17.1	40
203	Epitaxial Welding of Carbon Nanotube Networks for Aqueous Battery Current Collectors. <i>ACS Nano</i> , 2018 , 12, 5266-5273	16.7	36
202	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. <i>Energy and Environmental Science</i> , 2017 , 10, 538-545	35.4	451
201	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
200	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017 , 7, 1601783	21.8	19
199	Design of High Capacity Dissolvable Electrodes for All Transient Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605724	15.6	18
198	A carbon-based 3D current collector with surface protection for Li metal anode. <i>Nano Research</i> , 2017 , 10, 1356-1365	10	139
197	Compressible, Dense, Three-Dimensional Holey Graphene Monolithic Architecture. <i>ACS Nano</i> , 2017 , 11, 3189-3197	16.7	30
196	High Temperature Synthesis of Single-Component Metallic Nanoparticles. <i>ACS Central Science</i> , 2017 , 3, 294-301	16.8	26
195	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14801-14807	9.5	57
194	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
193	Synergistic protective effect of a BN-carbon separator for highly stable lithium sulfur batteries. <i>NPG Asia Materials</i> , 2017 , 9, e375-e375	10.3	73
192	Garnet Solid Electrolyte Protected Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18809-18815	9.5	181
191	Scalable, anisotropic transparent paper directly from wood for light management in solar cells. <i>Nano Energy</i> , 2017 , 36, 366-373	17.1	90
190	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. <i>Nano Research</i> , 2017 , 10, 4256-4265	10	61

189	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
188	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
187	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017 , 7, 1700595	21.8	156
186	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. <i>Nano Letters</i> , 2017 , 17, 3792-3797	11.5	191
185	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
184	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1701450	15.6	109
183	Holey Carbon Nanotubes from Controlled Air Oxidation. <i>Advanced Functional Materials</i> , 2017 , 27, 1700763	3.6	15
182	Drop spreading on a superhydrophobic surface: pinned contact line and bending liquid surface. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14442-14452	3.6	5
181	Modified coffee rings for 1-D electronics: Size considerations. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 646, 26-30	0.5	1
180	Highly Flexible and Efficient Solar Steam Generation Device. <i>Advanced Materials</i> , 2017 , 29, 1701756	24	424
179	Ultrahigh-Capacity Lithium-Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. <i>Nano Letters</i> , 2017 , 17, 3252-3260	11.5	97
178	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , 2017 , 11, 4275-4282	16.7	272
177	Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources. <i>Cellulose</i> , 2017 , 24, 2483-2498	5.5	55
176	Super-Clear Nanopaper from Agro-Industrial Waste for Green Electronics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600539	6.4	19
175	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
174	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 1606284	4.4	137
173	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
172	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

171	Tunable Broadband Nanocarbon Transparent Conductor by Electrochemical Intercalation. <i>ACS Nano</i> , 2017 , 11, 788-796	16.7	27
170	Negating interfacial impedance in garnet-based solid-state Li metal batteries. <i>Nature Materials</i> , 2017 , 16, 572-579	27	1192
169	Progress in 3D Printing of Carbon Materials for Energy-Related Applications. <i>Advanced Materials</i> , 2017 , 29, 1603486	24	291
168	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
167	Three-Dimensional Printed Thermal Regulation Textiles. <i>ACS Nano</i> , 2017 , 11, 11513-11520	16.7	165
166	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14942-14947	16.4	160
165	Interaction between a water drop and holey graphene: retarded imbibition and generation of novel water-graphene wetting states. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27421-27434	3.6	6
164	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017 , 29, 1704107	24	346
163	Transient Behavior of the Metal Interface in Lithium Metal-Garnet Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 15138-15143	3.6	10
162	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
161	Highly Anisotropic Conductors. <i>Advanced Materials</i> , 2017 , 29, 1703331	24	57
160	Cellulose-Nanofiber-Enabled 3D Printing of a Carbon-Nanotube Microfiber Network. <i>Small Methods</i> , 2017 , 1, 1700222	12.8	89
159	Stabilizing the Garnet Solid-Electrolyte/Polysulfide Interface in LiS Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 8037-8041	9.6	67
158	3D-Printed All-Fiber Li-Ion Battery toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1703140	15.6	184
157	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
156	Super-Strong, Super-Stiff Macrofibers with Aligned, Long Bacterial Cellulose Nanofibers. <i>Advanced Materials</i> , 2017 , 29, 1702498	24	127
155	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
154	Protected Lithium-Metal Anodes in Batteries: From Liquid to Solid. <i>Advanced Materials</i> , 2017 , 29, 1701169	24	452

153	Inverted battery design as ion generator for interfacing with biosystems. <i>Nature Communications</i> , 2017 , 8, 15609	17.4	17
152	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. <i>Nano Letters</i> , 2017 , 17, 4917-4923	11.5	72
151	FeS ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, High-Performance Electrocatalysts. <i>Advanced Energy Materials</i> , 2017 , 7, 1700482	21.8	112
150	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28922-28929	9.5	39
149	Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. <i>Nano Letters</i> , 2017 , 17, 5817-5822	11.5	23
148	Ultrafine Silver Nanoparticles for Seeded Lithium Deposition toward Stable Lithium Metal Anode. <i>Advanced Materials</i> , 2017 , 29, 1702714	24	374
147	Protection of boron nitride nanosheets by atomic layer deposition toward thermal energy management applications. <i>Nano Energy</i> , 2017 , 40, 149-154	17.1	4
146	Rich Mesostructures Derived from Natural Woods for Solar Steam Generation. <i>Joule</i> , 2017 , 1, 588-599	27.8	242
145	A solid state energy storage device with supercapacitorBattery hybrid design. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15266-15272	13	20
144	Superflexible Wood. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23520-23527	9.5	88
143	A High-Performance, Low-Tortuosity Wood-Carbon Monolith Reactor. <i>Advanced Materials</i> , 2017 , 29, 1604457	25.7	69
142	Highly compressible, binderless and ultrathick holey graphene-based electrode architectures. <i>Nano Energy</i> , 2017 , 31, 386-392	17.1	32
141	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. <i>Advanced Energy Materials</i> , 2017 , 7, 1601526	21.8	238
140	High temperature thermal management with boron nitride nanosheets. <i>Nanoscale</i> , 2017 , 10, 167-173	7.7	35
139	A Solution-Processed High-Temperature, Flexible, Thin-Film Actuator. <i>Advanced Materials</i> , 2016 , 28, 8618-8624	24.2	42
138	In Situ Transmission Electron Microscopy Observation of SodiationDesodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. <i>Chemistry of Materials</i> , 2016 , 28, 6528-6535	9.6	59
137	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. <i>Chemical Reviews</i> , 2016 , 116, 9305-74	68.1	802
136	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

135	Carbon Welding by Ultrafast Joule Heating. <i>Nano Letters</i> , 2016 , 16, 7282-7289	11.5	65
134	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016 , 7, 12332	17.4	74
133	Thermally conductive, dielectric PCM-boron nitride nanosheet composites for efficient electronic system thermal management. <i>Nanoscale</i> , 2016 , 8, 19326-19333	7.7	47
132	Flash-induced reduced graphene oxide as a Sn anode host for high performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18306-18313	13	39
131	Flexible Batteries: From Mechanics to Devices. <i>ACS Energy Letters</i> , 2016 , 1, 1065-1079	20.1	135
130	A highly sensitive, highly transparent, gel-gated MoS ₂ phototransistor on biodegradable nanopaper. <i>Nanoscale</i> , 2016 , 8, 14237-42	7.7	29
129	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
128	Na-Ion Battery Anodes: Materials and Electrochemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 231-40	24.3	750
127	A perylene anhydride crystal as a reversible electrode for K-ion batteries. <i>Energy Storage Materials</i> , 2016 , 2, 63-68	19.4	119
126	Solid Electrolyte Lithium Phosphorus Oxynitride as a Protective Nanocladding Layer for 3D High-Capacity Conversion Electrodes. <i>ACS Nano</i> , 2016 , 10, 2693-701	16.7	43
125	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. <i>ACS Nano</i> , 2016 , 10, 1369-77	16.7	133
124	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2204-10	9.5	124
123	Silver Nanowires 2016 , 1187-1203		
122	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). <i>Advanced Materials</i> , 2016 , 28, 4566	24	3
121	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. <i>Advanced Materials</i> , 2016 , 28, 4684-91	24	47
120	Highly Anisotropic, Highly Transparent Wood Composites. <i>Advanced Materials</i> , 2016 , 28, 5181-7	24	342
119	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1600377	21.8	205
118	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 2587-94	24	443

117	All-Component Transient Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502496	21.8	37
116	Ultrafast Microwave Nano-manufacturing of Fullerene-Like Metal Chalcogenides. <i>Scientific Reports</i> , 2016 , 6, 22503	4.9	26
115	Boron-doped few-walled carbon nanotubes: novel synthesis and properties. <i>Nanotechnology</i> , 2016 , 27, 445601	3.4	9
114	Solvo-thermal microwave-powered two-dimensional material exfoliation. <i>Chemical Communications</i> , 2016 , 52, 5757-60	5.8	23
113	Light management in plastic/paper hybrid substrate towards high-performance optoelectronics. <i>Energy and Environmental Science</i> , 2016 , 9, 2278-2285	35.4	85
112	Improving the High-Voltage Li ₂ FeMn ₃ O ₈ Cathode by Chlorine Doping. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10820-5	9.5	13
111	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016 , 16, 3616-23	11.5	146
110	Three-Dimensional Printable High-Temperature and High-Rate Heaters. <i>ACS Nano</i> , 2016 , 10, 5272-9	16.7	137
109	Electrochemical Intercalation of Lithium Ions into NbSe ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11390-5	9.5	40
108	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
107	Transient Electronics: Materials and Devices. <i>Chemistry of Materials</i> , 2016 , 28, 3527-3539	9.6	200
106	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
105	Cut-and-stack nanofiber paper toward fast transient energy storage. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 681-688	6.8	10
104	Dry-Processed, Binder-Free Holey Graphene Electrodes for Supercapacitors with Ultrahigh Areal Loadings. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29478-29485	9.5	61
103	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. <i>Chemical Society Reviews</i> , 2016 , 45, 6742-6765	58.5	243
102	Thermally Conductive, Electrical Insulating, Optically Transparent Bi-Layer Nanopaper. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28838-28843	9.5	39
101	Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. <i>Nano Letters</i> , 2016 , 16, 5553-8	11.5	52
100	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

99	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. <i>NPG Asia Materials</i> , 2015 , 7, e150-e150	10.3	75
98	Advanced Broadband Antireflection Coatings Based on Cellulose Microfiber Paper. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 577-583	3.7	15
97	Nanocellulose as green dispersant for two-dimensional energy materials. <i>Nano Energy</i> , 2015 , 13, 346-354	7.1	208
96	A Thermally Conductive Separator for Stable Li Metal Anodes. <i>Nano Letters</i> , 2015 , 15, 6149-54	11.5	262
95	Self-Powered Human-Interactive Transparent Nanopaper Systems. <i>ACS Nano</i> , 2015 , 9, 7399-406	16.7	85
94	Anomalous scaling law of strength and toughness of cellulose nanopaper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8971-6	11.5	203
93	Hydroxylated carbon nanotube enhanced sulfur cathodes for improved electrochemical performance of lithium-sulfur batteries. <i>Chemical Communications</i> , 2015 , 51, 13682-5	5.8	49
92	Investigation of the Cathode Catalyst Electrolyte Interface in Aprotic LiO ₂ Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 5305-5313	9.6	47
91	Transient Rechargeable Batteries Triggered by Cascade Reactions. <i>Nano Letters</i> , 2015 , 15, 4664-71	11.5	60
90	Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. <i>Nano Energy</i> , 2015 , 13, 283-290	17.1	14
89	Sodium-Ion Intercalated Transparent Conductors with Printed Reduced Graphene Oxide Networks. <i>Nano Letters</i> , 2015 , 15, 3763-9	11.5	41
88	Next-Generation Lithium Metal Anode Engineering via Atomic Layer Deposition. <i>ACS Nano</i> , 2015 , 9, 5884-92	10.7	573
87	Encapsulation of S/SWNT with PANI web for enhanced rate and cycle performance in lithium sulfur batteries. <i>Scientific Reports</i> , 2015 , 5, 8946	4.9	37
86	Scalable nanomanufacturing of surfactant-free carbon nanotube inks for spray coatings with high conductivity. <i>Nano Research</i> , 2015 , 8, 2242-2250	10	20
85	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 2920-2927	15.6	123
84	Potassium Ion Batteries with Graphitic Materials. <i>Nano Letters</i> , 2015 , 15, 7671-7	11.5	680
83	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23291-6	9.5	101
82	Organic electrode for non-aqueous potassium-ion batteries. <i>Nano Energy</i> , 2015 , 18, 205-211	17.1	325

81	Nanocellulose-based Translucent Diffuser for Optoelectronic Device Applications with Dramatic Improvement of Light Coupling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26860-4	9.5	58
80	Fabrication of 3D core-shell multiwalled carbon nanotube@RuO ₂ lithium-ion battery electrodes through a RuO ₂ atomic layer deposition process. <i>ACS Nano</i> , 2015 , 9, 464-73	16.7	56
79	In Situ Investigations of Li-MoS ₂ with Planar Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1401742	21.8	78
78	Rapid Dissolving-Debonding Strategy for Optically Transparent Paper Production. <i>Scientific Reports</i> , 2015 , 5, 17703	4.9	6
77	Synthetic Alloys: Synthetic Crystals of Silver with Carbon: 3D Epitaxy of Carbon Nanostructures in the Silver Lattice (Adv. Funct. Mater. 30/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4746-4746	15.6	
76	Oxidative Etching of Hexagonal Boron Nitride Toward Nanosheets with Defined Edges and Holes. <i>Scientific Reports</i> , 2015 , 5, 14510	4.9	52
75	Synthetic Crystals of Silver with Carbon: 3D Epitaxy of Carbon Nanostructures in the Silver Lattice. <i>Advanced Functional Materials</i> , 2015 , 25, 4768-4777	15.6	23
74	Atomic force microscopy studies on molybdenum disulfide flakes as sodium-ion anodes. <i>Nano Letters</i> , 2015 , 15, 1018-24	11.5	99
73	Interfacial oxygen stabilizes composite silicon anodes. <i>Nano Letters</i> , 2015 , 15, 703-8	11.5	45
72	Paper-Based Anti-Reflection Coatings for Photovoltaics. <i>Advanced Energy Materials</i> , 2014 , 4, 1301804	21.8	51
71	Highly thermally conductive papers with percolative layered boron nitride nanosheets. <i>ACS Nano</i> , 2014 , 8, 3606-13	16.7	337
70	One-Dimensional Silicon Nanostructures for Li Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 720-31	6.4	55
69	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
68	Novel nanostructured paper with ultrahigh transparency and ultrahigh haze for solar cells. <i>Nano Letters</i> , 2014 , 14, 765-73	11.5	348
67	Transparent paper: fabrications, properties, and device applications. <i>Energy and Environmental Science</i> , 2014 , 7, 269-287	35.4	392
66	Enhanced electrochemical stability of high-voltage LiNi _{0.5} Mn _{1.5} O ₄ cathode by surface modification using atomic layer deposition. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	21
65	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. <i>Advanced Functional Materials</i> , 2014 , 24, 7366-7372	15.6	82
64	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

63	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
62	Atomic-layer-deposition oxide nanoglue for sodium ion batteries. <i>Nano Letters</i> , 2014 , 14, 139-47	11.5	173
61	Lightweight, conductive hollow fibers from nature as sustainable electrode materials for microbial energy harvesting. <i>Nano Energy</i> , 2014 , 10, 268-276	17.1	48
60	Highly transparent paper with tunable haze for green electronics. <i>Energy and Environmental Science</i> , 2014 , 7, 3313-3319	35.4	96
59	Solar Cells: Paper-Based Anti-Reflection Coatings for Photovoltaics (Adv. Energy Mater. 9/2014). <i>Advanced Energy Materials</i> , 2014 , 4,	21.8	3
58	Aqueous gating of van der Waals materials on bilayer nanopaper. <i>ACS Nano</i> , 2014 , 8, 10606-12	16.7	30
57	A gravure printed antenna on shape-stable transparent nanopaper. <i>Nanoscale</i> , 2014 , 6, 9110-5	7.7	78
56	Scalable holey graphene synthesis and dense electrode fabrication toward high-performance ultracapacitors. <i>ACS Nano</i> , 2014 , 8, 8255-65	16.7	177
55	Approaching the limits of transparency and conductivity in graphitic materials through lithium intercalation. <i>Nature Communications</i> , 2014 , 5, 4224	17.4	166
54	A cellulose based hydrophilic, oleophobic hydrated filter for water/oil separation. <i>Chemical Communications</i> , 2014 , 50, 13296-9	5.8	151
53	Two dimensional silicon nanowalls for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6051-6057	13	63
52	Nonflammable electrolyte enhances battery safety. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3205-6	11.5	47
51	Development, application and commercialization of transparent paper. <i>Translational Materials Research</i> , 2014 , 1, 015004		42
50	A paper-based electrostatic zipper actuator for printable robots 2014 ,		16
49	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <i>Nature Communications</i> , 2014 , 5, 5670	17.4	79
48	Highly transparent and writable wood all-cellulose hybrid nanostructured paper. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6191	7.1	98
47	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
46	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

45	Transparent and conductive paper from nanocellulose fibers. <i>Energy and Environmental Science</i> , 2013 , 6, 513-518	35.4	375
44	Highly transparent and flexible nanopaper transistors. <i>ACS Nano</i> , 2013 , 7, 2106-13	16.7	349
43	Nanostructured paper for flexible energy and electronic devices. <i>MRS Bulletin</i> , 2013 , 38, 320-325	3.2	173
42	A transparent electrode based on a metal nanotrough network. <i>Nature Nanotechnology</i> , 2013 , 8, 421-5	28.7	749
41	Optical haze of transparent and conductive silver nanowire films. <i>Nano Research</i> , 2013 , 6, 461-468	10	155
40	Transparent nanopaper with tailored optical properties. <i>Nanoscale</i> , 2013 , 5, 3787-92	7.7	185
39	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
38	Natural cellulose fiber as substrate for supercapacitor. <i>ACS Nano</i> , 2013 , 7, 6037-46	16.7	267
37	Biodegradable transparent substrates for flexible organic-light-emitting diodes. <i>Energy and Environmental Science</i> , 2013 , 6, 2105	35.4	249
36	Role of mesoporosity in cellulose fibers for paper-based fast electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8201	13	23
35	Weavable high-capacity electrodes. <i>Nano Energy</i> , 2013 , 2, 987-994	17.1	34
34	Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. <i>ACS Nano</i> , 2013 , 7, 6378-86	16.7	557
33	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 5265-5270	35.4	255
32	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
31	Porous amorphous FePO ₄ nanoparticles connected by single-wall carbon nanotubes for sodium ion battery cathodes. <i>Nano Letters</i> , 2012 , 12, 5664-8	11.5	186
30	Energy and environmental nanotechnology in conductive paper and textiles. <i>Energy and Environmental Science</i> , 2012 , 5, 6423	35.4	350
29	MWCNT/V ₂ O ₅ core/shell sponge for high areal capacity and power density Li-ion cathodes. <i>ACS Nano</i> , 2012 , 6, 7948-55	16.7	219
28	Interconnected silicon hollow nanospheres for lithium-ion battery anodes with long cycle life. <i>Nano Letters</i> , 2011 , 11, 2949-54	11.5	1155

27	High-performance nanostructured supercapacitors on a sponge. <i>Nano Letters</i> , 2011 , 11, 5165-72	11.5	627
26	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
25	Metal nanogrids, nanowires, and nanofibers for transparent electrodes. <i>MRS Bulletin</i> , 2011 , 36, 760-765	3.2	399
24	Paper supercapacitors by a solvent-free drawing method. <i>Energy and Environmental Science</i> , 2011 , 4, 3368	35.4	263
23	Enhancing the supercapacitor performance of graphene/MnO ₂ nanostructured electrodes by conductive wrapping. <i>Nano Letters</i> , 2011 , 11, 4438-42	11.5	987
22	Emerging transparent electrodes based on thin films of carbon nanotubes, graphene, and metallic nanostructures. <i>Advanced Materials</i> , 2011 , 23, 1482-513	24	1737
21	Silicon-Carbon Nanotube Coaxial Sponge as Li-Ion Anodes with High Areal Capacity. <i>Advanced Energy Materials</i> , 2011 , 1, 523-527	21.8	206
20	Lithium-Ion Textile Batteries with Large Areal Mass Loading. <i>Advanced Energy Materials</i> , 2011 , 1, 1012-1017	17	205
19	Si nanoparticle-decorated Si nanowire networks for Li-ion battery anodes. <i>Chemical Communications</i> , 2011 , 47, 367-9	5.8	149
18	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , 2011 , 4, 1293	35.4	67
17	Transparent lithium-ion batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13013-8	11.5	208
16	Thin, flexible secondary Li-ion paper batteries. <i>ACS Nano</i> , 2010 , 4, 5843-8	16.7	703
15	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
14	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
13	Scalable coating and properties of transparent, flexible, silver nanowire electrodes. <i>ACS Nano</i> , 2010 , 4, 2955-63	16.7	1734
12	Fast and scalable printing of large area monolayer nanoparticles for nanotexturing applications. <i>Nano Letters</i> , 2010 , 10, 2989-94	11.5	76
11	Electrospun metal nanofiber webs as high-performance transparent electrode. <i>Nano Letters</i> , 2010 , 10, 4242-8	11.5	610
10	Stretchable, porous, and conductive energy textiles. <i>Nano Letters</i> , 2010 , 10, 708-14	11.5	1280

9	Carbon nanotube thin films: fabrication, properties, and applications. <i>Chemical Reviews</i> , 2010 , 110, 5790-814	6.4	786
8	Aqueous supercapacitors on conductive cotton. <i>Nano Research</i> , 2010 , 3, 452-458	10	176
7	Metal current collector-free freestanding silicon-carbon 1D nanocomposites for ultralight anodes in lithium ion batteries. <i>Journal of Power Sources</i> , 2010 , 195, 8311-8316	8.9	56
6	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
5	Infrared transparent carbon nanotube thin films. <i>Applied Physics Letters</i> , 2009 , 94, 081103	3.4	89
4	Target-Sintering of Single-Phase Bulk Intermetallics via a Fast-Heating-Induced Rapid Interdiffusion Mechanism	480-48	
3	Ultrafast Sintering of Solid-State Electrolytes with Volatile Fillers. <i>ACS Energy Letters</i> , 3753-3760	20.1	7
2	Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie</i> ,	3.6	1
1	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. <i>Energy and Environmental Science</i> ,	35.4	21