Hongli Zhu

List of Publications by Year in descending order

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		26567	24915
112	13,758	56	109
papers	citations	h-index	g-index
115	115	115	16919
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. Chemical Reviews, 2016, 116, 9305-9374.	23.0	1,110
2	Na-Ion Battery Anodes: Materials and Electrochemistry. Accounts of Chemical Research, 2016, 49, 231-240.	7.6	886
3	Pure and stable metallic phase molybdenum disulfide nanosheets for hydrogen evolution reaction. Nature Communications, 2016, 7, 10672.	5.8	721
4	Tin Anode for Sodium-Ion Batteries Using Natural Wood Fiber as a Mechanical Buffer and Electrolyte Reservoir. Nano Letters, 2013, 13, 3093-3100.	4.5	556
5	Transparent paper: fabrications, properties, and device applications. Energy and Environmental Science, 2014, 7, 269-287.	15.6	457
6	Highly Thermally Conductive Papers with Percolative Layered Boron Nitride Nanosheets. ACS Nano, 2014, 8, 3606-3613.	7.3	425
7	Highly Transparent and Flexible Nanopaper Transistors. ACS Nano, 2013, 7, 2106-2113.	7. 3	401
8	Sulfideâ∈Based Solidâ∈State Electrolytes: Synthesis, Stability, and Potential for Allâ∈Solidâ∈State Batteries. Advanced Materials, 2019, 31, e1901131.	11.1	365
9	Two-Dimensional Water-Coupled Metallic MoS ₂ with Nanochannels for Ultrafast Supercapacitors. Nano Letters, 2017, 17, 1825-1832.	4.5	337
10	Lithium Dendrite in All-Solid-State Batteries: Growth Mechanisms, Suppression Strategies, and Characterizations. Matter, 2020, 3, 57-94.	5.0	334
11	Natural Cellulose Fiber as Substrate for Supercapacitor. ACS Nano, 2013, 7, 6037-6046.	7.3	315
12	A Thermally Conductive Separator for Stable Li Metal Anodes. Nano Letters, 2015, 15, 6149-6154.	4.5	313
13	Anomalous scaling law of strength and toughness of cellulose nanopaper. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8971-8976.	3.3	296
14	Biodegradable transparent substrates for flexible organic-light-emitting diodes. Energy and Environmental Science, 2013, 6, 2105.	15.6	281
15	Nanocellulose as green dispersant for two-dimensional energy materials. Nano Energy, 2015, 13, 346-354.	8.2	270
16	Freestanding Metallic 1T MoS ₂ with Dual Ion Diffusion Paths as High Rate Anode for Sodium″on Batteries. Advanced Functional Materials, 2017, 27, 1702998.	7.8	265
17	3D Printed Highâ∈Performance Lithium Metal Microbatteries Enabled by Nanocellulose. Advanced Materials, 2019, 31, e1807313.	11.1	226
18	Transparent nanopaper with tailored optical properties. Nanoscale, 2013, 5, 3787.	2.8	223

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19	Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. Small, 2018, 14, e1800640.	5.2	218
20	Porous Amorphous FePO ₄ Nanoparticles Connected by Single-Wall Carbon Nanotubes for Sodium Ion Battery Cathodes. Nano Letters, 2012, 12, 5664-5668.	4.5	215
21	Approaching the limits of transparency and conductivity in graphitic materials through lithium intercalation. Nature Communications, 2014, 5, 4224.	5.8	213
22	Nanostructured paper for flexible energy and electronic devices. MRS Bulletin, 2013, 38, 320-325.	1.7	199
23	Bacterial-Derived, Compressible, and Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. Nano Letters, 2018, 18, 7407-7413.	4.5	192
24	Ion Transport Nanotube Assembled with Vertically Aligned Metallic MoS ₂ for High Rate Lithiumâ€lon Batteries. Advanced Energy Materials, 2018, 8, 1702779.	10.2	181
25	Extreme Light Management in Mesoporous Wood Cellulose Paper for Optoelectronics. ACS Nano, 2016, 10, 1369-1377.	7.3	161
26	Low temperature carbonization of cellulose nanocrystals for high performance carbon anode of sodium-ion batteries. Nano Energy, 2017, 33, 37-44.	8.2	159
27	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. ACS Applied Materials & Samp; Interfaces, 2016, 8, 2204-2210.	4.0	146
28	Novel gas sensing platform based on a stretchable laser-induced graphene pattern with self-heating capabilities. Journal of Materials Chemistry A, 2020, 8, 6487-6500.	5.2	135
29	Silver nanowire transparent conducting paper-based electrode with high optical haze. Journal of Materials Chemistry C, 2014, 2, 1248-1254.	2.7	131
30	Celluloseâ€Nanofiberâ€Enabled 3D Printing of a Carbonâ€Nanotube Microfiber Network. Small Methods, 2017, 1, 1700222.	4.6	130
31	Highly transparent paper with tunable haze for green electronics. Energy and Environmental Science, 2014, 7, 3313-3319.	15.6	123
32	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23291-23296.	4.0	123
33	An  antifouling' porous loofah sponge with internal microchannels as solar absorbers and water pumpers for thermal desalination. Journal of Materials Chemistry A, 2020, 8, 12323-12333.	5. 2	118
34	Highly transparent and writable wood all-cellulose hybrid nanostructured paper. Journal of Materials Chemistry C, 2013, 1, 6191.	2.7	117
35	Stable Metal Anode enabled by Porous Lithium Foam with Superior Ion Accessibility. Advanced Materials, 2018, 30, e1802156.	11.1	115
36	Stable Thiophosphate-Based All-Solid-State Lithium Batteries through Conformally Interfacial Nanocoating. Nano Letters, 2020, 20, 1483-1490.	4.5	112

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37	Biodegradable, Hygienic, and Compostable Tableware from Hybrid Sugarcane and Bamboo Fibers as Plastic Alternative. Matter, 2020, 3, 2066-2079.	5.0	107
38	Strong transparent magnetic nanopaper prepared by immobilization of Fe3O4 nanoparticles in a nanofibrillated cellulose network. Journal of Materials Chemistry A, 2013, 1, 15278.	5.2	104
39	Photocatalytic Rejuvenation Enabled Self-Sanitizing, Reusable, and Biodegradable Masks against COVID-19. ACS Nano, 2021, 15, 11992-12005.	7.3	98
40	Self-Powered Human-Interactive Transparent Nanopaper Systems. ACS Nano, 2015, 9, 7399-7406.	7.3	97
41	Ultralight, highly thermally insulating and fire resistant aerogel by encapsulating cellulose nanofibers with two-dimensional MoS ₂ . Nanoscale, 2017, 9, 11452-11462.	2.8	97
42	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. NPG Asia Materials, 2015, 7, e150-e150.	3.8	95
43	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. Advanced Functional Materials, 2014, 24, 7366-7372.	7.8	94
44	Free-Standing Na _{2/3} Fe _{1/2} Mn _{1/2} O ₂ @Graphene Film for a Sodium-lon Battery Cathode. ACS Applied Materials & Sodium-lon Battery Cathode	4.0	88
45	A gravure printed antenna on shape-stable transparent nanopaper. Nanoscale, 2014, 6, 9110.	2.8	85
46	Superstrong and Tough Hydrogel through Physical Cross-Linking and Molecular Alignment. Biomacromolecules, 2019, 20, 4476-4484.	2.6	83
47	Natural Cellulose Nanofibers As Sustainable Enhancers in Construction Cement. PLoS ONE, 2016, 11, e0168422.	1.1	79
48	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. ACS Applied Materials & Samp; Interfaces, 2017, 9, 14801-14807.	4.0	77
49	Solidâ€State Batteries: Sulfideâ€Based Solidâ€State Electrolytes: Synthesis, Stability, and Potential for Allâ€Solidâ€State Batteries (Adv. Mater. 44/2019). Advanced Materials, 2019, 31, 1970311.	11.1	75
50	Nanocellulose-based Translucent Diffuser for Optoelectronic Device Applications with Dramatic Improvement of Light Coupling. ACS Applied Materials & Interfaces, 2015, 7, 26860-26864.	4.0	72
51	Processing Strategies to Improve Cell-Level Energy Density of Metal Sulfide Electrolyte-Based All-Solid-State Li Metal Batteries and Beyond. ACS Energy Letters, 2020, 5, 3468-3489.	8.8	68
52	Bioinspired Mineralization with Hydroxyapatite and Hierarchical Naturally Aligned Nanofibrillar Cellulose. ACS Applied Materials & Enterfaces, 2019, 11, 27598-27604.	4.0	67
53	Free-standing porous carbon electrodes derived from wood for high-performance Li-O2 battery applications. Nano Research, 2017, 10, 4318-4326.	5.8	64
54	Lightweight, conductive hollow fibers from nature as sustainable electrode materials for microbial energy harvesting. Nano Energy, 2014, 10, 268-276.	8.2	63

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55	Recycling of natural fiber composites: Challenges and opportunities. Resources, Conservation and Recycling, 2022, 177, 105962.	5.3	62
56	Longâ€Cycling Sulfideâ€Based Allâ€Solidâ€State Batteries Enabled by Electrochemoâ€Mechanically Stable Electrodes. Advanced Materials, 2022, 34, e2200401.	11.1	62
57	Additive Manufacturing of 3D Aerogels and Porous Scaffolds: A Review. Advanced Functional Materials, 2021, 31, 2103410.	7.8	61
58	Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper. Advanced Materials, 2016, 28, 4684-4691.	11.1	59
59	Stable Li Metal Anode Enabled by Space Confinement and Uniform Curvature through Lithiophilic Nanotube Arrays. Advanced Energy Materials, 2020, 10, 1902819.	10.2	55
60	Biopolymers Derived from Trees as Sustainable Multifunctional Materials: A Review. Advanced Materials, 2021, 33, e2001654.	11.1	54
61	Metal-Free Aqueous Flow Battery with Novel Ultrafiltered Lignin as Electrolyte. ACS Sustainable Chemistry and Engineering, 2018, 6, 5394-5400.	3.2	52
62	Amphipathic Binder Integrating Ultrathin and Highly Ionâ€Conductive Sulfide Membrane for Cellâ€Level Highâ€Energyâ€Density Allâ€Solidâ€State Batteries. Advanced Materials, 2021, 33, e2105505.	11.1	52
63	Bioinspired Ultrastable Lignin Cathode via Graphene Reconfiguration for Energy Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 3553-3561.	3.2	51
64	Mass Transfer and Reaction Kinetic Enhanced Electrode for Highâ€Performance Aqueous Flow Batteries. Advanced Functional Materials, 2019, 29, 1903192.	7.8	50
65	Regulated lithium ionic flux through well-aligned channels for lithium dendrite inhibition in solid-state batteries. Energy Storage Materials, 2020, 31, 344-351.	9.5	48
66	Heavy Metal-Free Tannin from Bark for Sustainable Energy Storage. Nano Letters, 2017, 17, 7897-7907.	4.5	46
67	Bipolar stackings high voltage and high cell level energy density sulfide based all-solid-state batteries. Energy Storage Materials, 2022, 48, 458-465.	9.5	46
68	Plasmonicâ€Enhanced Cholesteric Films: Coassembling Anisotropic Gold Nanorods with Cellulose Nanocrystals. Advanced Optical Materials, 2019, 7, 1801816.	3.6	44
69	Bone-Inspired Mineralization with Highly Aligned Cellulose Nanofibers as Template. ACS Applied Materials & Description (1998) 11, 42486-42495.	4.0	41
70	Versatile zero―to threeâ€dimensional carbon for electrochemical energy storage. , 2021, 3, 895-915.		41
71	Stretchable, ultrasensitive, and low-temperature NO2 sensors based on MoS2@rGO nanocomposites. Materials Today Physics, 2020, 15, 100265.	2.9	40
72	Ligninâ€Derived Holey, Layered, and Thermally Conductive 3D Scaffold for Lithium Dendrite Suppression. Small Methods, 2019, 3, 1800539.	4.6	39

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73	Stable and Highly Ion-Selective Membrane Made from Cellulose Nanocrystals for Aqueous Redox Flow Batteries. Nano Letters, 2019, 19, 8979-8989.	4.5	38
74	Self-Stabilized LiNi0.8Mn0.1Co0.1O2 in thiophosphate-based all-solid-state batteries through extra LiOH. Energy Storage Materials, 2021, 41, 505-514.	9.5	36
75	Caterpillar-like graphene confining sulfur by restacking effect for high performance lithium sulfur batteries. Chemical Engineering Journal, 2017, 322, 454-462.	6.6	33
76	Aqueous Gating of van der Waals Materials on Bilayer Nanopaper. ACS Nano, 2014, 8, 10606-10612.	7.3	31
77	Lignin-AuNPs liquid marble for remotely-controllable detection of Pb2+. Scientific Reports, 2016, 6, 38164.	1.6	31
78	Aligned and stable metallic MoS ₂ on plasma-treated mass transfer channels for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 25359-25367.	5.2	31
79	A solid state energy storage device with supercapacitor–battery hybrid design. Journal of Materials Chemistry A, 2017, 5, 15266-15272.	5.2	31
80	High Phase Change Enthalpy Enabled by Nanocellulose Enhanced Shape Stable Boron Nitride Aerogel. ACS Applied Polymer Materials, 2020, 2, 3001-3009.	2.0	31
81	Turning Natural Herbaceous Fibers into Advanced Materials for Sustainability. Advanced Fiber Materials, 2022, 4, 736-757.	7.9	31
82	Resilient Energy Storage under High-Temperature with In-Situ-Synthesized MnO _{<i>x</i>} @Graphene as Anode. ACS Applied Materials & Interfaces, 2017, 9, 33896-33905.	4.0	30
83	Tuning Chiral Nematic Pitch of Bioresourced Photonic Films via Coupling Organic Acid Hydrolysis. Advanced Materials Interfaces, 2019, 6, 1802010.	1.9	30
84	Stable lithium–sulfur full cells enabled by dual functional and interconnected mesocarbon arrays. Journal of Materials Chemistry A, 2019, 7, 3289-3297.	5.2	29
85	Dualâ€Function, Tunable, Nitrogenâ€Doped Carbon for Highâ€Performance Li Metal–Sulfur Full Cell. Small, 2019, 15, e1804609.	5.2	28
86	Fully Water-Soluble, High-Performance Transient Sensors on a Versatile Galactomannan Substrate Derived from the Endosperm. ACS Applied Materials & Samp; Interfaces, 2018, 10, 36664-36674.	4.0	26
87	Transparent Electrode and Magnetic Permalloy Made from Novel Nanopaper. ACS Applied Materials & Lamp; Interfaces, 2016, 8, 27081-27090.	4.0	25
88	Operando EDXRD Study of Allâ€Solidâ€State Lithium Batteries Coupling Thioantimonate Superionic Conductors with Metal Sulfide. Advanced Energy Materials, 2021, 11, 2002861.	10.2	25
89	Role of mesoporosity in cellulose fibers for paper-based fast electrochemical energy storage. Journal of Materials Chemistry A, 2013, 1, 8201.	5.2	23
90	Compressible Ionized Natural 3D Interconnected Loofah Membrane for Salinity Gradient Power Generation. Small, 2022, 18, e2104320.	5.2	22

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91	Ice-Templated Anisotropic Flame-Resistant Boron Nitride Aerogels Enhanced through Surface Modification and Cellulose Nanofibrils. ACS Applied Polymer Materials, 2021, 3, 1358-1367.	2.0	20
92	Functionalized Well-Aligned Channels Derived from Wood as a Convection-Enhanced Electrode for Aqueous Flow Batteries. ACS Applied Energy Materials, 2020, 3, 6249-6257.	2.5	19
93	A paper-based electrostatic zipper actuator for printable robots. , 2014, , .		18
94	Abundant Organic Dye as an Anolyte for Aqueous Flow Battery with Multielectron Transfer. ACS Applied Energy Materials, 2019, 2, 7425-7437.	2.5	18
95	Understanding Phase Stability of Metallic 1T-MoS2 Anodes for Sodium-Ion Batteries. Condensed Matter, 2019, 4, 53.	0.8	18
96	Interconnected stacked hollow carbon spheres uniformly embedded with Ni2P nanoparticles as scalable host for practical Li metal anode. Chemical Engineering Journal, 2022, 428, 132648.	6.6	18
97	High Surface Area Nâ€Doped Carbon Fibers with Accessible Reaction Sites for Allâ€Solidâ€State Lithiumâ€Sulfur Batteries. Small, 2022, 18, e2105678.	5.2	16
98	Interface Strain Induced Hydrophobic Facet Suppression in Cellulose Nanocomposite Embedded with Highly Oxidized Monolayer Graphene Oxide. Advanced Materials Interfaces, 2017, 4, 1700995.	1.9	15
99	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. Advanced Engineering Materials, 2020, 22, 2000257.	1.6	15
100	A high ion-conductive and stable porous membrane for neutral aqueous Zn-based flow batteries. Journal of Membrane Science, 2021, 640, 119804.	4.1	13
101	Versatile synthesis of molybdenum sulfide from confined spaces for efficient hydrogen evolution. International Journal of Hydrogen Energy, 2017, 42, 26659-26666.	3.8	11
102	Metallic and highly conducting two-dimensional atomic arrays of sulfur enabled by molybdenum disulfide nanotemplate. Npj Computational Materials, 2017, 3, .	3.5	10
103	Allâ€Solidâ€State Li–S Batteries Enhanced by Interface StabilizationÂand Reaction Kinetics Promotion through 2D Transition Metal Sulfides. Advanced Materials Interfaces, 2022, 9, .	1.9	10
104	Largeâ€Scale Manufacturing of Patternâ€Integrated Paper Liâ€Ion Microbatteries through Rollâ€toâ€Roll Flexographic Printing. Advanced Materials Technologies, 2022, 7, .	3.0	9
105	Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. ACS Sustainable Chemistry and Engineering, 2022, 10, 8704-8714.	3.2	7
106	Molybdenum Sulfide Nanosheetâ€Based Hollow Porous Flat Boxes and Nanotubes for Efficient Electrochemical Hydrogen Evolution. ChemCatChem, 2018, 10, 459-464.	1.8	6
107	Lithiumâ€lon Batteries: Ion Transport Nanotube Assembled with Vertically Aligned Metallic MoS ₂ for High Rate Lithiumâ€lon Batteries (Adv. Energy Mater. 15/2018). Advanced Energy Materials, 2018, 8, 1870071.	10.2	4
108	SPEEK scaling UP. Joule, 2022, 6, 718-720.	11.7	4

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109	Nanocarbon Paper: Flexible, High Temperature, Planar Lighting with Large Scale Printable Nanocarbon Paper (Adv. Mater. 23/2016). Advanced Materials, 2016, 28, 4566-4566.	11.1	3
110	A Modeling Approach for Optimization of Printed NMC622 Cathode for Capacity Density Improvement under Fast Charging Condition- 3D Simulation and Experimental Validation. , 2022, , .		3
111	Biopolymeric Materials: Biopolymers Derived from Trees as Sustainable Multifunctional Materials: A Review (Adv. Mater. 28/2021). Advanced Materials, 2021, 33, 2170220.	11.1	2
112	Aqueous Flow Batteries: Mass Transfer and Reaction Kinetic Enhanced Electrode for Highâ€Performance Aqueous Flow Batteries (Adv. Funct. Mater. 43/2019). Advanced Functional Materials, 2019, 29, 1970297.	7.8	0