

# Haishun Du

## 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.

59 papers	2,411 citations	27 h-index	48 g-index
65 ext. papers	3,950 ext. citations	8.4 avg, IF	5.8 L-index

#	Paper	IF	Citations
59	Dynamic crack initiation and growth in cellulose nanopaper. <i>Cellulose</i> , <b>2022</b> , 29, 557	5.5	3
58	Conductive PEDOT:PSS/cellulose nanofibril paper electrodes for flexible supercapacitors with superior areal capacitance and cycling stability. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131994	14.7	23
57	Biopolymer-based hydrogel electrolytes for advanced energy storage/conversion devices: Properties, applications, and perspectives. <i>Energy Storage Materials</i> , <b>2022</b> , 48, 244-262	19.4	14
56	Facile Electrodeposition of Mn-CoP Nanosheets on Ni Foam as High-Rate and Ultrastable Electrodes for Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 186-195	6.1	0
55	Cellulose Nanopaper: Fabrication, Functionalization, and Applications.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 104	19.5	10
54	Sustainable production of cellulose nanofibrils from Kraft pulp for the stabilization of oil-in-water Pickering emulsions. <i>Industrial Crops and Products</i> , <b>2022</b> , 185, 115123	5.9	1
53	High-performance supercapacitors based on Ni <sub>2</sub> P@CNT nanocomposites prepared using an ultrafast microwave approach. <i>Frontiers of Chemical Science and Engineering</i> , <b>2021</b> , 15, 1021-1032	4.5	6
52	Electropolymerization of polyaniline as high-performance binder free electrodes for flexible supercapacitor. <i>Electrochimica Acta</i> , <b>2021</b> , 376, 138037	6.7	17
51	Recent Insights on Biomedical Applications of Bacterial Cellulose based Composite Hydrogels. <i>Current Medicinal Chemistry</i> , <b>2021</b> ,	4.3	5
50	Valorization of Enzymatic Hydrolysis Residues from Corn cob into Lignin-Containing Cellulose Nanofibrils and Lignin Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 677963	5.8	13
49	Recent advances in cellulose and its derivatives for oilfield applications. <i>Carbohydrate Polymers</i> , <b>2021</b> , 259, 117740	10.3	80
48	Multifunctional Cellulose Nanopaper with Superior Water-Resistant, Conductive, and Antibacterial Properties Functionalized with Chitosan and Polypyrrole. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32115-32125	9.5	16
47	Recent Advances in Hydrophobic Modification of Nanocellulose. <i>Current Organic Chemistry</i> , <b>2021</b> , 25, 417-436	1.7	9
46	Lignin-based electrodes for energy storage application. <i>Industrial Crops and Products</i> , <b>2021</b> , 165, 113425	5.9	64
45	Ultrafast Microwave Synthesis of Nickel-Cobalt Sulfide/Graphene Hybrid Electrodes for High-Performance Asymmetrical Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8262-8274	6.1	10
44	Sustainable preparation of bifunctional cellulose nanocrystals via mixed HSO <sub>2</sub> /formic acid hydrolysis. <i>Carbohydrate Polymers</i> , <b>2021</b> , 266, 118107	10.3	32
43	Advanced Nanocellulose-Based Composites for Flexible Functional Energy Storage Devices. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101368	24	58

42	An efficient and magnetic adsorbent prepared in a dry process with enzymatic hydrolysis residues for wastewater treatment. <i>Journal of Cleaner Production</i> , <b>2021</b> , 313, 127834	10.3	15
41	Sustainable preparation of cellulose nanofibrils via choline chloride-citric acid deep eutectic solvent pretreatment combined with high-pressure homogenization. <i>Carbohydrate Polymers</i> , <b>2021</b> , 267, 118220	10.3	37
40	Engineering cellulose nanopaper with water resistant, antibacterial, and improved barrier properties by impregnation of chitosan and the followed halogenation. <i>Carbohydrate Polymers</i> , <b>2021</b> , 270, 118372	10.3	19
39	Cellulose based composite foams and aerogels for advanced energy storage devices. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130817	14.7	55
38	Advanced Nanocellulose-Based Composites for Flexible Functional Energy Storage Devices (Adv. Mater. 48/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170381	24	1
37	Bacterial Cellulose-Based Composite Scaffolds for Biomedical Applications: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7536-7562	8.3	150
36	Sustainable valorization of paper mill sludge into cellulose nanofibrils and cellulose nanopaper. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123106	12.8	58
35	Construction of Chlorine Labeled ZnO/Chitosan Loaded Cellulose Nanofibrils Film with Quick Antibacterial Performance and Prominent UV Stability. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 2000228	3.9	11
34	Superior crack initiation and growth characteristics of cellulose nanopapers. <i>Cellulose</i> , <b>2020</b> , 27, 3181-3195	9.5	18
33	Highly Efficient Preparation of Functional and Thermostable Cellulose Nanocrystals via HSO Intensified Acetic Acid Hydrolysis. <i>Carbohydrate Polymers</i> , <b>2020</b> , 239, 116233	10.3	53
32	Polypyrrole and cellulose nanofiber based composite films with improved physical and electrical properties for electromagnetic shielding applications. <i>Carbohydrate Polymers</i> , <b>2020</b> , 240, 116304	10.3	36
31	COVID-19: Challenges and perspectives for the pulp and paper industry worldwide. <i>BioResources</i> , <b>2020</b> , 15, 4638-4641	1.3	12
30	Paper-based products as promising substitutes for plastics in the context of bans on non-biodegradables. <i>BioResources</i> , <b>2020</b> , 15, 7309-7312	1.3	1
29	One-Step Synthesis of Tunable Zinc-Based Nanohybrids as an Ultrasensitive DNA Signal Amplification Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2983-2990	9.5	4
28	Falling Leaves Return to Their Roots: A Review on the Preparation of Valerolactone from Lignocellulose and Its Application in the Conversion of Lignocellulose. <i>ChemSusChem</i> , <b>2020</b> , 13, 6461-6476	8.3	21
27	Facile preparation of poly(indole/thiophene) for energy storage and sensor applications. <i>Electrochimica Acta</i> , <b>2020</b> , 358, 136919	6.7	2
26	Multiresponsive MXene (TiCT)-Decorated Textiles for Wearable Thermal Management and Human Motion Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 34226-34234	9.5	56
25	Polypyrrole film based flexible supercapacitor: mechanistic insight into influence of acid dopants on electrochemical performance. <i>Electrochimica Acta</i> , <b>2020</b> , 357, 136877	6.7	27

24	Construction of Chlorine Labeled ZnO/Chitosan Loaded Cellulose Nanofibrils Film with Quick Antibacterial Performance and Prominent UV Stability. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 2070022	3.9	2
23	Highly Conductive, Stretchable, Adhesive, and Self-Healing Polymer Hydrogels for Strain and Pressure Sensor. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 2000479	3.9	9
22	Highly Efficient and Sustainable Preparation of Carboxylic and Thermostable Cellulose Nanocrystals via FeCl <sub>3</sub> -Catalyzed Innocuous Citric Acid Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16691-16700	8.3	41
21	Facile synthesis of nanostructured polyaniline in ionic liquids for high solubility and enhanced electrochemical properties. <i>Advanced Composites and Hybrid Materials</i> , <b>2019</b> , 2, 279-288	8.7	25
20	Tailored and Integrated Production of Functional Cellulose Nanocrystals and Cellulose Nanofibrils via Sustainable Formic Acid Hydrolysis: Kinetic Study and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9449-9463	8.3	49
19	Microwave synthesis of MoS <sub>2</sub> /MoO <sub>2</sub> @CNT nanocomposites with excellent cycling stability for supercapacitor electrodes. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9545-9555	7.1	51
18	Preparation of thermally stable and surface-functionalized cellulose nanocrystals via mixed HSO/Oxalic acid hydrolysis. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115116	10.3	42
17	Facile Extraction of Thermally Stable and Dispersible Cellulose Nanocrystals with High Yield via a Green and Recyclable FeCl <sub>3</sub> -Catalyzed Deep Eutectic Solvent System. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 7200-7208	8.3	67
16	Comparative Evaluation of the Efficient Conversion of Corn Husk Filament and Corn Husk Powder to Valuable Materials via a Sustainable and Clean Biorefinery Process. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1327-1336	8.3	45
15	Cellulose nanocrystals and cellulose nanofibrils based hydrogels for biomedical applications. <i>Carbohydrate Polymers</i> , <b>2019</b> , 209, 130-144	10.3	374
14	Flexible cellulose nanopaper with high wet tensile strength, high toughness and tunable ultraviolet blocking ability fabricated from tobacco stalk via a sustainable method. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13021-13030	13	93
13	Recent Strategies in Preparation of Cellulose Nanocrystals and Cellulose Nanofibrils Derived from Raw Cellulose Materials. <i>International Journal of Polymer Science</i> , <b>2018</b> , 2018, 1-25	2.4	92
12	Properties of Nanocelluloses and Their Application as Rheology Modifier in Paper Coating. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 8264-8273	3.9	51
11	Properties of nanocellulose isolated from corncob residue using sulfuric acid, formic acid, oxidative and mechanical methods. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 716-724	10.3	190
10	A new cis-p-coumaroyl flavonol glycoside from the inner barks of <i>Sophora japonica</i> L.. <i>Holzforschung</i> , <b>2016</b> , 70, 39-45	2	8
9	Preparation and characterization of thermally stable cellulose nanocrystals via a sustainable approach of FeCl <sub>3</sub> -catalyzed formic acid hydrolysis. <i>Cellulose</i> , <b>2016</b> , 23, 2389-2407	5.5	98
8	Preparation and characterization of functional cellulose nanofibrils via formic acid hydrolysis pretreatment and the followed high-pressure homogenization. <i>Industrial Crops and Products</i> , <b>2016</b> , 94, 736-745	5.9	80
7	Hydrogen Peroxide-Assisted Sodium Carbonate Pretreatment for the Enhancement of Enzymatic Saccharification of Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3477-3485	8.3	33

6	Cellulose Nanomaterials for Oil Exploration Applications. <i>Polymer Reviews</i> ,1-41	14	14
5	Fabrication and applications of cellulose-based nanogenerators. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	24
4	Flexible and porous Co <sub>3</sub> O <sub>4</sub> -carbon nanofibers as binder-free electrodes for supercapacitors. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	20
3	Lignin-containing cellulose nanomaterials: preparation and applications. <i>Green Chemistry</i> ,	10	38
2	Multifunctional Superelastic, Superhydrophilic, and Ultralight Nanocellulose-Based Composite Carbon Aerogels for Compressive Supercapacitor and Strain Sensor. <i>Advanced Functional Materials</i> ,2113082	15.6	20
1	Strong and highly conductive cellulose nanofibril/silver nanowires nanopaper for high performance electromagnetic interference shielding. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	6