

# Huiyang Bian

## 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.

89  
papers

2,736  
citations

29  
h-index

49  
g-index

94  
ext. papers

3,750  
ext. citations

7.5  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
89	Phosphomolybdc acid-catalyzed oxidation of waste starch: a new strategy for handling the OCC pulping wastewater.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
88	Effect of temperature on simultaneous separation and extraction of hemicellulose using p-toluenesulfonic acid treatment at atmospheric pressure.. <i>Bioresource Technology</i> , <b>2022</b> , 348, 126793	11	4
87	Electrochemical sensing of Staphylococcus aureus based on conductive anti-fouling interface.. <i>Mikrochimica Acta</i> , <b>2022</b> , 189, 97	5.8	0
86	Promoting h-BN dispersion in cellulose-based composite by liginosulfonate for regulatable effectual thermal management. <i>Materials and Design</i> , <b>2022</b> , 214, 110379	8.1	2
85	Lignocellulosic nanofibril aerogel via gas phase coagulation and diisocyanate modification for solvent absorption.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 278, 119011	10.3	2
84	Multifunctional cellulose paper-based materials and their application in complex wastewater treatment.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 207, 414-423	7.9	0
83	Biomass-Derived Carbon Heterostructures Enable Environmentally Adaptive Wideband Electromagnetic Wave Absorbers. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 11	19.5	42
82	Regulating lignin content to obtain excellent bamboo-derived electromagnetic wave absorber with thermal stability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 133178	14.7	7
81	Underwater superoleophobic all-cellulose composite papers for the separation of emulsified oil. <i>Cellulose</i> , <b>2021</b> , 28, 4357-4370	5.5	3
80	Highly fluorescent graphene quantum dots from biorefinery waste for tri-channel sensitive detection of Fe ions. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125096	12.8	26
79	Formaldehyde-free self-polymerization of lignin-derived monomers for synthesis of renewable phenolic resin. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 166, 1312-1319	7.9	10
78	Natural lignocellulosic nanofibril film with excellent ultraviolet blocking performance and robust environment resistance. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 166, 1578-1585	7.9	22
77	Chitin nanofibers as versatile bio-templates of zeolitic imidazolate frameworks for N-doped hierarchically porous carbon electrodes for supercapacitor. <i>Carbohydrate Polymers</i> , <b>2021</b> , 251, 117107	10.3	21
76	Laccase-catalyzed chitosan-monophenol copolymer as a coating on paper enhances its hydrophobicity and strength. <i>Progress in Organic Coatings</i> , <b>2021</b> , 151, 106026	4.8	7
75	Recyclable deep eutectic solvent coupling sodium hydroxide post-treatment for boosting woody/herbaceous biomass conversion at mild condition. <i>Bioresource Technology</i> , <b>2021</b> , 320, 124327	11	13
74	Tailorable cellulose II nanocrystals (CNC II) prepared in mildly acidic lithium bromide trihydrate (MALBTH). <i>Green Chemistry</i> , <b>2021</b> , 23, 2778-2791	10	8
73	Green, efficient extraction of bamboo hemicellulose using freeze-thaw assisted alkali treatment. <i>Bioresource Technology</i> , <b>2021</b> , 333, 125107	11	10

72	Electrochemical sensing technology for liquid biopsy of circulating tumor cells-a review. <i>Bioelectrochemistry</i> , <b>2021</b> , 140, 107823	5.6	3
71	Efficient valorization of woody biomass using two-step oxidation toward multipurpose fractionation. <i>Industrial Crops and Products</i> , <b>2021</b> , 167, 113509	5.9	1
70	Preparing printable bacterial cellulose based gelatin gel to promote in vivo bone regeneration. <i>Carbohydrate Polymers</i> , <b>2021</b> , 270, 118342	10.3	22
69	Benzenesulfonic acid-based hydrotropic system for achieving lignocellulose separation and utilization under mild conditions. <i>Bioresource Technology</i> , <b>2021</b> , 337, 125379	11	6
68	Value-added utilization of lignin-derived aromatic oligomers as renewable charge-storage materials. <i>Industrial Crops and Products</i> , <b>2021</b> , 171, 113848	5.9	2
67	Synthetic polymers based on lignin-derived aromatic monomers for high-performance energy-storage materials. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24065-24074	13	6
66	On-Demand Regulation of Lignocellulosic Nanofibrils Based on Rapid Fractionation Using Acid Hydrotrope: Kinetic Study and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 9569-9577 <sup>29</sup>	8.3	29
65	Resource utilization and ionization modification of waste starch from the recycling process of old corrugated cardboard paper. <i>Journal of Environmental Management</i> , <b>2020</b> , 271, 111031	7.9	9
64	Water-dispersible, biocompatible and fluorescent poly(ethylene glycol)-grafted cellulose nanocrystals. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 153, 46-54	7.9	17
63	BNNS/PVA bilayer composite film with multiple-improved properties by the synergistic actions of cellulose nanofibrils and lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 157, 259-266	7.9	12
62	Cationic cellulose nano-fibers (CCNF) as versatile flocculants of wood pulp for high wet web performance. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115434	10.3	13
61	Surface enhanced Raman scattering substrate for the detection of explosives: Construction strategy and dimensional effect. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 387, 121714	12.8	29
60	Facile isolation of colloidal stable chitin nano-crystals from <i>Metapenaeus ensis</i> shell via solid maleic acid hydrolysis and their application for synthesis of silver nanoparticles. <i>Cellulose</i> , <b>2020</b> , 27, 9853-9875	5.5	6
59	An antibacterial composite film based on cellulose acetate/TiO <sub>2</sub> nanoparticles. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 20751-20758	3.6	13
58	Diisocyanate modifiable commercial filter paper with tunable hydrophobicity, enhanced wet tensile strength and antibacterial activity. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116791	10.3	17
57	Procuring the nano-scale lignin in prehydrolyzate as ingredient to prepare cellulose nanofibril composite film with multiple functions. <i>Cellulose</i> , <b>2020</b> , 27, 9355-9370	5.5	62
56	Near-complete enzymatic hydrolysis efficiency of <i>Miscanthus</i> using hydrotropic fractionation at atmospheric pressure. <i>Industrial Crops and Products</i> , <b>2020</b> , 149, 112365	5.9	9
55	Clear Wood toward High-Performance Building Materials. <i>ACS Nano</i> , <b>2019</b> , 13, 9993-10001	16.7	70

54	Fluorescent cellulose nanocrystals for the detection of lead ions in complete aqueous solution. <i>Cellulose</i> , <b>2019</b> , 26, 9553-9565	5.5	11
53	Manufacture of Highly Transparent and Hazy Cellulose Nanofibril Films via Coating TEMPO-Oxidized Wood Fibers. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	29
52	Highly Efficient Lignin Depolymerization via Effective Inhibition of Condensation during Polyoxometalate-Mediated Oxidation. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 6483-6490	4.1	16
51	Enhancement of Hydrotropic Fractionation of Poplar Wood using Autohydrolysis and Disk Refining Pretreatment: Morphology and Overall Chemical Characterization. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
50	Lignocellulosic nanofibrils produced using wheat straw and their pulping solid residue: From agricultural waste to cellulose nanomaterials. <i>Waste Management</i> , <b>2019</b> , 91, 1-8	8.6	50
49	Valorization of Alkaline Peroxide Mechanical Pulp by Metal Chloride-Assisted Hydrotropic Pretreatment for Enzymatic Saccharification and Cellulose Nanofibrillation. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
48	Thermally Conductive and Electrical Insulation BNNS/CNF Aerogel Nano-Paper. <i>Polymers</i> , <b>2019</b> , 11,	4.5	15
47	Highly transparent and thermally stable cellulose nanofibril films functionalized with colored metal ions for ultraviolet blocking activities. <i>Carbohydrate Polymers</i> , <b>2019</b> , 213, 10-16	10.3	20
46	Glyoxal improved functionalization of starch with AZC enhances the hydrophobicity, strength and UV blocking capacities of co-crosslinked polymer. <i>European Polymer Journal</i> , <b>2019</b> , 110, 385-393	5.2	10
45	Characterization of lignocellulose aerogels fabricated using a LiCl/DMSO solution. <i>Industrial Crops and Products</i> , <b>2019</b> , 131, 293-300	5.9	11
44	Nanocellulose/Gelatin Composite Cryogels for Controlled Drug Release. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6381-6389	8.3	49
43	Thermally-induced cellulose nanofibril films with near-complete ultraviolet-blocking and improved water resistance. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115050	10.3	16
42	Aerogel Perfusion-Prepared h-BN/CNF Composite Film with Multiple Thermally Conductive Pathways and High Thermal Conductivity. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	17
41	Poplar Hot Water Extract Enhances Barrier and Antioxidant Properties of Chitosan/Bentonite Composite Film for Packaging Applications. <i>Polymers</i> , <b>2019</b> , 11,	4.5	12
40	Comparison of mixed enzymatic pretreatment and post-treatment for enhancing the cellulose nanofibrillation efficiency. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122171	11	30
39	Recyclable and Reusable Maleic Acid for Efficient Production of Cellulose Nanofibrils with Stable Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 20022-20031	8.3	54
38	Electrochemical sensing of lead(II) by differential pulse voltammetry using conductive polypyrrole nanoparticles. <i>Mikrochimica Acta</i> , <b>2019</b> , 187, 23	5.8	17
37	Thermally conductive, super flexible and flame-retardant BN-OH/PVA composite film reinforced by lignin nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14159-14169	7.1	41

36	Direct Valorization of Lignocellulosic Biomass into Value-Added Chemicals by Polyoxometalate Catalyzed Oxidation under Mild Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22996-23004	3.9	10
35	Lignin Nanoparticle-Coated Celgard Separator for High-Performance Lithium-Sulfur Batteries. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
34	Lignin containing cellulose nanofibril production from willow bark at 80 °C using a highly recyclable acid hydrotrope. <i>Industrial Crops and Products</i> , <b>2019</b> , 129, 15-23	5.9	28
33	Contribution of lignin to the surface structure and physical performance of cellulose nanofibrils film. <i>Cellulose</i> , <b>2018</b> , 25, 1309-1318	5.5	54
32	Improving cellulose nanofibrillation of waste wheat straw using the combined methods of prewashing, p-toluenesulfonic acid hydrolysis, disk grinding, and endoglucanase post-treatment. <i>Bioresource Technology</i> , <b>2018</b> , 256, 321-327	11	51
31	Enhancing physical performance and hydrophobicity of paper-based cellulosic material via impregnation with starch and PEI-KH560. <i>Cellulose</i> , <b>2018</b> , 25, 1365-1375	5.5	17
30	Lignin-Containing Cellulose Nanofibril-Reinforced Polyvinyl Alcohol Hydrogels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4821-4828	8.3	103
29	Facile Synthesis of Highly Hydrophobic Cellulose Nanoparticles through Post-Esterification Microfluidization. <i>Fibers</i> , <b>2018</b> , 6, 22	3.7	4
28	ZnO nanoparticles enhanced hydrophobicity for starch film and paper. <i>Materials Letters</i> , <b>2018</b> , 230, 207-210	3.5	28
27	Enhancement of the heat conduction performance of boron nitride/cellulosic fibre insulating composites. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200842	3.7	12
26	Lignin nanoparticles as nano-spacers for tuning the viscoelasticity of cellulose nanofibril reinforced polyvinyl alcohol-borax hydrogel. <i>European Polymer Journal</i> , <b>2018</b> , 107, 267-274	5.2	42
25	Morphology control for tunable optical properties of cellulose nanofibrils films. <i>Cellulose</i> , <b>2018</b> , 25, 5909-5918	5.5	16
24	Nanocellulose/Poly(2-(dimethylamino)ethyl methacrylate)Interpenetrating polymer network hydrogels for removal of Pb(II) and Cu(II) ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 538, 474-480	5.1	39
23	Starch-Based Flexible Coating for Food Packaging Paper with Exceptional Hydrophobicity and Antimicrobial Activity. <i>Polymers</i> , <b>2018</b> , 10,	4.5	24
22	Highly Dispersible Cellulose Nanofibrils Produced via Mechanical Pretreatment and TEMPO-mediated Oxidation. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 2237-2244	2	6
21	Fluorescent CdTe-QD-encoded nanocellulose microspheres by green spraying method. <i>Cellulose</i> , <b>2018</b> , 25, 7017-7029	5.5	10
20	Preparation of lignocellulose/graphene composite conductive paper. <i>Cellulose</i> , <b>2018</b> , 25, 6139-6149	5.5	10
19	Shape memory aerogels from nanocellulose and polyethyleneimine as a novel adsorbent for removal of Cu(II) and Pb(II). <i>Carbohydrate Polymers</i> , <b>2018</b> , 196, 376-384	10.3	98

18	Effects of preparation approaches on optical properties of self-assembled cellulose nanopapers. <i>RSC Advances</i> , <b>2017</b> , 7, 10463-10468	3.7	28
17	Integrated production of lignin containing cellulose nanocrystals (LCNC) and nanofibrils (LCNF) using an easily recyclable di-carboxylic acid. <i>Carbohydrate Polymers</i> , <b>2017</b> , 167, 167-176	10.3	134
16	Rapid and near-complete dissolution of wood lignin at 80°C by a recyclable acid hydrotrope. <i>Science Advances</i> , <b>2017</b> , 3, e1701735	14.3	175
15	Green and Low-cost Production of Thermally Stable and Carboxylated Cellulose Nanocrystals and Nanofibrils Using Highly Recyclable Dicarboxylic Acids. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	14
14	Effect of fiber drying on properties of lignin containing cellulose nanocrystals and nanofibrils produced through maleic acid hydrolysis. <i>Cellulose</i> , <b>2017</b> , 24, 4205-4216	5.5	51
13	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28922-28929	9.5	39
12	High wet-strength, thermally stable and transparent TEMPO-oxidized cellulose nanofibril film via cross-linking with poly-amide epichlorohydrin resin. <i>RSC Advances</i> , <b>2017</b> , 7, 31567-31573	3.7	45
11	Superflexible Wood. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23520-23527	9.5	88
10	Producing wood-based nanomaterials by rapid fractionation of wood at 80 °C using a recyclable acid hydrotrope. <i>Green Chemistry</i> , <b>2017</b> , 19, 3370-3379	10	117
9	Natural Cellulose Nanofibers As Sustainable Enhancers in Construction Cement. <i>PLoS ONE</i> , <b>2016</b> , 11, e0168422	3.7	47
8	Thermo-responsive cellulose paper via ARGET ATRP. <i>Fibers and Polymers</i> , <b>2016</b> , 17, 495-501	2	12
7	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e150-e150	10.3	75
6	Nanocellulose as green dispersant for two-dimensional energy materials. <i>Nano Energy</i> , <b>2015</b> , 13, 346-354	7.1	208
5	Preparation and Characterization of Self-Reinforced Antibacterial and Oil-Resistant Paper Using a NaOH/Urea/ZnO Solution. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140603	3.7	15
4	Programmable Arrays of Micro-Bubble Constructs via Self-Encapsulation. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4364-4373	15.6	17
3	Highly Conductive Microfiber of Graphene Oxide Templated Carbonization of Nanofibrillated Cellulose. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 7366-7372	15.6	82
2	Fabrication of natural cellulose microspheres via electrospraying from NaOH/Urea aqueous system. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
1	Strong transparent magnetic nanopaper prepared by immobilization of Fe <sub>3</sub> O <sub>4</sub> nanoparticles in a nanofibrillated cellulose network. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15278	13	96

