

# Haipeng Yu

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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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.

88 papers	5,567 citations	37 h-index	74 g-index
104 ext. papers	7,104 ext. citations	10.1 avg, IF	6.11 L-index

#	Paper	IF	Citations
88	Exploring the circular polarization capacity from chiral cellulose nanocrystal films for photo-controlled chiral helix of supramolecular polymers.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	2
87	A Nanostructured Moisture Absorbing Gel for Fast and Large-Scale Passive Dehumidification.. <i>Advanced Materials</i> , <b>2022</b> , e2200865	24	7
86	A Mott-Schottky Heterogeneous Layer for Li-S Batteries: Enabling Both High Stability and Commercial-Sulfur Utilization. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103657	21.8	9
85	Metal-Free Boron/Phosphorus Co-Doped Nanoporous Carbon for Highly Efficient Benzyl Alcohol Oxidation.. <i>Advanced Science</i> , <b>2022</b> , e2200518	13.6	1
84	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv. Mater. 17/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270126	24	
83	Multi-dimensional, transparent and foldable cellulose-based triboelectric nanogenerator for touching password recognition. <i>Nano Energy</i> , <b>2022</b> , 98, 107307	17.1	1
82	A Scalable Bacterial Cellulose Ionogel for Multisensory Electronic Skin. <i>Research</i> , <b>2022</b> , 2022, 1-11	7.8	1
81	Wood-Derived Carbon Materials and Light-Emitting Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000596	24	30
80	A Stiffness-Switchable, Biomimetic Smart Material Enabled by Supramolecular Reconfiguration.. <i>Advanced Materials</i> , <b>2021</b> , e2107857	24	11
79	High-Loading, Well-Dispersed Phosphorus Confined on Nanoporous Carbon Surfaces with Enhanced Catalytic Activity and Cyclic Stability.. <i>Small Methods</i> , <b>2021</b> , 5, e2100964	12.8	2
78	Wood/polyimide composite via a rapid substitution compositing method for extreme temperature conditions. <i>Composites Science and Technology</i> , <b>2021</b> , 207, 108698	8.6	6
77	Wood-Derived Systems for Sustainable Oil/Water Separation. <i>Advanced Sustainable Systems</i> , <b>2021</b> , 5, 2100039	5.9	5
76	A non-Newtonian fluidic cellulose-modified glass microfiber separator for flexible lithium-ion batteries. <i>EcoMat</i> , <b>2021</b> , 3, e12126	9.4	7
75	Cellulose: Cellulose-Based Flexible Functional Materials for Emerging Intelligent Electronics (Adv. Mater. 28/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170213	24	8
74	Cellulose-Based Flexible Functional Materials for Emerging Intelligent Electronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2000619	24	175
73	Recyclable nanocellulose-confined palladium nanoparticles with enhanced room-temperature catalytic activity and chemoselectivity. <i>Science China Materials</i> , <b>2021</b> , 64, 621-630	7.1	9
72	Molecular-Scale Design of Cellulose-Based Functional Materials for Flexible Electronic Devices. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000944	6.4	27

71	Biopolymer Nanofibers for Nanogenerator Development. <i>Research</i> , <b>2021</b> , 2021, 1843061	7.8	9
70	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , <b>2021</b> , 80, 105569	17.1	39
69	Tunable and functional deep eutectic solvents for lignocellulose valorization. <i>Nature Communications</i> , <b>2021</b> , 12, 5424	17.4	23
68	Pretreatment Influence of an Imitative Deep Eutectic Solvent Composed of Biomass Light Oil and Choline Chloride on Boosting Selective Saccharification during Corn Stalk Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12813-12824	8.3	2
67	Room temperature dissolving cellulose with a metal salt hydrate-based deep eutectic solvent. <i>Carbohydrate Polymers</i> , <b>2021</b> , 272, 118473	10.3	10
66	Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1
65	Stimuli-responsive composite biopolymer actuators with selective spatial deformation behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14602-14608	11.5	29
64	A Dynamic Gel with Reversible and Tunable Topological Networks and Performances. <i>Matter</i> , <b>2020</b> , 2, 390-403	12.7	98
63	Assembly of silver nanowires and PEDOT:PSS with hydrocellulose toward highly flexible, transparent and conductivity-stable conductors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123644	14.7	26
62	Designing Hybrid Chiral Photonic Films with Circularly Polarized Room-Temperature Phosphorescence. <i>ACS Nano</i> , <b>2020</b> , 14, 11130-11139	16.7	50
61	Composite Aerogels of Carbon Nanocellulose Fibers and Mixed-Valent Manganese Oxides as Renewable Supercapacitor Electrodes. <i>Polymers</i> , <b>2019</b> , 11,	4.5	11
60	Tunable Upconverted Circularly Polarized Luminescence in Cellulose Nanocrystal Based Chiral Photonic Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23512-23519	9.5	45
59	Polyvinyl Alcohol/Silk Fibroin/Borax Hydrogel Ionotronics: A Highly Stretchable, Self-Healable, and Biocompatible Sensing Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 23632-23638	9.5	88
58	Production of Nanocellulose Using Hydrated Deep Eutectic Solvent Combined with Ultrasonic Treatment. <i>ACS Omega</i> , <b>2019</b> , 4, 8539-8547	3.9	58
57	Lightweight, Flexible, Thermally-Stable, and Thermally-Insulating Aerogels Derived from Cotton Nanofibrillated Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9202-9210	8.3	23
56	Comparison of extreme temperature response to 0.5 °C additional warming between dry and humid regions over East-Central Asia. <i>International Journal of Climatology</i> , <b>2019</b> , 39, 3348-3364	3.5	8
55	Wood-Derived Nanofibrillated Cellulose Hydrogel Filters for Fast and Efficient Separation of Nanoparticles. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900063	5.9	3
54	Deep Eutectic Solvent-Assisted In Situ Wood Delignification: A Promising Strategy To Enhance the Efficiency of Wood-Based Solar Steam Generation Devices. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26032-26037	9.5	57

53	Assembling semiconductor quantum dots in hierarchical photonic cellulose nanocrystal films: circularly polarized luminescent nanomaterials as optical coding labels. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13794-13802	7.1	39
52	Biomass-derived nitrogen-doped carbon quantum dots: highly selective fluorescent probe for detecting Fe ions and tetracyclines. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 332-341	9.3	259
51	Nanoformulations of quercetin and cellulose nanofibers as healthcare supplements with sustained antioxidant activity. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 160-168	10.3	36
50	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5919-5927	9.5	60
49	Multiple hydrogen bond coordination in three-constituent deep eutectic solvents enhances lignin fractionation from biomass. <i>Green Chemistry</i> , <b>2018</b> , 20, 2711-2721	10	159
48	Multifunctional chiral nematic cellulose nanocrystals/glycerol structural colored nanocomposites for intelligent responsive films, photonic inks and iridescent coatings. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5391-5400	7.1	71
47	Robust Nanofibrillated Cellulose Hydro/Aerogels from Benign Solution/Solvent Exchange Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6624-6634	8.3	22
46	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2837-2872	58.5	401
45	Biopolymer nanofibrils: structure, modeling, preparation, and applications. <i>Progress in Polymer Science</i> , <b>2018</b> , 85, 1-56	29.6	183
44	High Performance, Flexible, Solid-State Supercapacitors Based on a Renewable and Biodegradable Mesoporous Cellulose Membrane. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700739	21.8	141
43	Efficient Flame-Retardant and Smoke-Suppression Properties of Mg-Al-Layered Double-Hydroxide Nanostructures on Wood Substrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23039-23047	9.5	103
42	Combination of micro-sized mineral particles and rosin as a basis for converting cellulosic fibers into "sticky" superhydrophobic paper. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 95-102	10.3	14
41	Highly Flexible and Conductive Cellulose-Mediated PEDOT:PSS/MWCNT Composite Films for Supercapacitor Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13213-13222	9.5	160
40	Efficient Cleavage of Lignin-Carbohydrate Complexes and Ultrafast Extraction of Lignin Oligomers from Wood Biomass by Microwave-Assisted Treatment with Deep Eutectic Solvent. <i>ChemSusChem</i> , <b>2017</b> , 10, 1692-1700	8.3	226
39	Efficient Cleavage of Strong Hydrogen Bonds in Cotton by Deep Eutectic Solvents and Facile Fabrication of Cellulose Nanocrystals in High Yields. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7623-7631	8.3	102
38	Assembly of Organosolv Lignin Residues into Submicron Spheres: The Effects of Granulating in Ethanol/Water Mixtures and Homogenization. <i>ACS Omega</i> , <b>2017</b> , 2, 2858-2865	3.9	20
37	Multifunctional Bionanocomposite Foams with a Chitosan Matrix Reinforced by Nanofibrillated Cellulose. <i>ChemNanoMat</i> , <b>2017</b> , 3, 98-108	3.5	27
36	Formation and properties of polyelectrolytes/TiO <sub>2</sub> composite coating on wood surfaces through layer-by-layer assembly method. <i>Holzforschung</i> , <b>2016</b> , 70, 361-367	2	26

35	Homogeneous Dispersion of Cellulose Nanofibers in Waterborne Acrylic Coatings with Improved Properties and Unreduced Transparency. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3766-3772	8.3	39
34	Comparative study of the structure, mechanical and thermomechanical properties of cellulose nanopapers with different thickness. <i>Cellulose</i> , <b>2016</b> , 23, 1375-1382	5.5	27
33	Facile extraction of cellulose nanocrystals from wood using ethanol and peroxide solvothermal pretreatment followed by ultrasonic nanofibrillation. <i>Green Chemistry</i> , <b>2016</b> , 18, 1010-1018	10	130
32	Sustainable Carbon Aerogels Derived from Nanofibrillated Cellulose as High-Performance Absorption Materials. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600004	4.6	34
31	Absorption Materials: Sustainable Carbon Aerogels Derived from Nanofibrillated Cellulose as High-Performance Absorption Materials (Adv. Mater. Interfaces 10/2016). <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3,	4.6	1
30	Soy protein isolate/cellulose nanofiber complex gels as fat substitutes: rheological and textural properties and extent of cream imitation. <i>Cellulose</i> , <b>2015</b> , 22, 2619-2627	5.5	40
29	Comparison of ZnO nanorod array coatings on wood and their UV prevention effects obtained by microwave-assisted hydrothermal and conventional hydrothermal synthesis. <i>Holzforschung</i> , <b>2015</b> , 69, 1009-1014	2	7
28	Fabrication of smart coatings based on wood substrates with photoresponsive behavior and hydrophobic performance. <i>Materials and Design</i> , <b>2015</b> , 84, 277-284	8.1	32
27	Revealing the structures of cellulose nanofiber bundles obtained by mechanical nanofibrillation via TEM observation. <i>Carbohydrate Polymers</i> , <b>2015</b> , 117, 950-956	10.3	59
26	Effect of cellulose nanofibers on induced polymerization of aniline and formation of nanostructured conducting composite. <i>Cellulose</i> , <b>2014</b> , 21, 1757-1767	5.5	35
25	Individual cotton cellulose nanofibers: pretreatment and fibrillation technique. <i>Cellulose</i> , <b>2014</b> , 21, 1517-1528	5.28	64
24	Composite aerogels based on dialdehyde nanocellulose and collagen for potential applications as wound dressing and tissue engineering scaffold. <i>Composites Science and Technology</i> , <b>2014</b> , 94, 132-138	8.6	130
23	Self-Assembly of Nanocellulose and Indomethacin into Hierarchically Ordered Structures with High Encapsulation Efficiency for Sustained Release Applications. <i>ChemPlusChem</i> , <b>2014</b> , 79, 725-731	2.8	29
22	A process of converting cellulosic fibers to a superhydrophobic fiber product by internal and surface applications of calcium carbonate in combination with bio-wax post-treatment. <i>RSC Advances</i> , <b>2014</b> , 4, 52680-52685	3.7	8
21	Synthesis of aluminum hydroxide thin coating and its influence on the thermomechanical and fire-resistant properties of wood. <i>Holzforschung</i> , <b>2014</b> , 68, 781-789	2	22
20	Comparative study of aerogels obtained from differently prepared nanocellulose fibers. <i>ChemSusChem</i> , <b>2014</b> , 7, 154-61	8.3	199
19	Process of in situ forming well-aligned zinc oxide nanorod arrays on wood substrate using a two-step bottom-up method. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 407, 116-21	9.3	17
18	Concentration effects on the isolation and dynamic rheological behavior of cellulose nanofibers via ultrasonic processing. <i>Cellulose</i> , <b>2013</b> , 20, 149-157	5.5	95

17	Antimicrobial surfaces of quaternized poly[(2-dimethyl amino)ethyl methacrylate] grafted on wood via ARGET ATRP. <i>Holzforschung</i> , <b>2013</b> , 67, 455-461	2	24
16	Hydrothermal fabrication of rutile TiO <sub>2</sub> submicrospheres on wood surface: An efficient method to prepare UV-protective wood. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 133, 253-258	4.4	57
15	Hydrophobic modification of wood via surface-initiated ARGET ATRP of MMA. <i>Applied Surface Science</i> , <b>2012</b> , 258, 2529-2533	6.7	59
14	Testing of the superhydrophobicity of a zinc oxide nanorod array coating on wood surface prepared by hydrothermal treatment. <i>Holzforschung</i> , <b>2012</b> , 66, 739-744	2	46
13	Ultralight and highly flexible aerogels with long cellulose I nanofibers. <i>Soft Matter</i> , <b>2011</b> , 7, 10360	3.6	177
12	Isolation and characterization of cellulose nanofibers from four plant cellulose fibers using a chemical-ultrasonic process. <i>Cellulose</i> , <b>2011</b> , 18, 433-442	5.5	337
11	Individualization of cellulose nanofibers from wood using high-intensity ultrasonication combined with chemical pretreatments. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 1804-1811	10.3	647
10	Preparation of millimeter-long cellulose I nanofibers with diameters of 3080 nm from bamboo fibers. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 453-461	10.3	156
9	Improvement of water resistance and dimensional stability of wood through titanium dioxide coating. <i>Holzforschung</i> , <b>2010</b> , 64,	2	49
8	Prolonging the combustion duration of wood by TiO <sub>2</sub> coating synthesized using cosolvent-controlled hydrothermal method. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6661-6667	4.3	28
7	Growth of TiO <sub>2</sub> coating on wood surface using controlled hydrothermal method at low temperatures. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5046-5050	6.7	64
6	Image retrieval of wood species by color, texture, and spatial information <b>2009</b> ,		3
5	Non-Equal Spacing Division of HSV Components for Wood Image Retrieval <b>2009</b> ,		1
4	Comparison of image analysis and conventional methods for cellular tissue proportion measurement of wood <b>2009</b> ,		3
3	Preliminary study on the characteristics of tactility of wood by physiological index HRV. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , <b>2006</b> , 1, 361-366		
2	Measurement of the dynamic modulus of elasticity of wood panels. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , <b>2006</b> , 1, 425-430		7
1	Tailored one-pot lignocellulose fractionation to maximize biorefinery toward versatile xylochemicals and nanomaterials. <i>Green Chemistry</i> ,	10	4