

# Changtong Mei

## 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.

86

papers

2,202

citations

20

h-index

44

g-index

87

ext. papers

3,080

ext. citations

6

avg, IF

5.58

L-index

#	Paper	IF	Citations
86	Anisotropic cellulose nanofibril composite sponges for electromagnetic interference shielding with low reflection loss. <i>Carbohydrate Polymers</i> , <b>2022</b> , 276, 118799	10.3	17
85	Advanced nanocellulose-based gas barrier materials: Present status and prospects. <i>Chemosphere</i> , <b>2022</b> , 286, 131891	8.4	9
84	Lightweight and anisotropic cellulose nanofibril/rectorite composite sponges for efficient dye adsorption and selective separation.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 207, 130-139	7.9	5
83	Inhibiting wood-water interactions by hydrothermal hemicellulose extraction combined with furfurylation. <i>Holzforschung</i> , <b>2022</b> , 76, 245-255	2	1
82	3D Printed Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/Cellulose Nanofiber Architectures for Solid-State Supercapacitors: Ink Rheology, 3D Printability, and Electrochemical Performance. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2109593	15.6	10
81	Eco-friendly preparation of high-quality mineralized wood via thermal modification induced silica sol penetration. <i>Industrial Crops and Products</i> , <b>2022</b> , 183, 115003	5.9	0
80	Inherently Conductive Poly(dimethylsiloxane) Elastomers Synergistically Mediated by Nanocellulose/Carbon Nanotube Nanohybrids toward Highly Sensitive, Stretchable, and Durable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	9
79	Self-Recovery, Fatigue-Resistant, and Multifunctional Sensor Assembled by a Nanocellulose/Carbon Nanotube Nanocomplex-Mediated Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50281-50297	9.5	18
78	Chiral Nematic Coatings Based on Cellulose Nanocrystals as a Multiplexing Platform for Humidity Sensing and Dual Anticounterfeiting. <i>Small</i> , <b>2021</b> , e2103936	11	5
77	Polyethylene glycol and silica sol penetration improves hydrophobicity and dimensional stability of wood after a short-time treatment. <i>European Journal of Wood and Wood Products</i> , <b>2021</b> , 79, 1395	2.1	7
76	A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO <sub>2</sub> Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003902	21.8	19
75	Zinc-Ion Batteries: A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO <sub>2</sub> Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte (Adv. Energy Mater. 25/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170097	21.8	0
74	Facile synthesis of phosphorus-nitrogen doped carbon quantum dots from cyanobacteria for bioimaging. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 1926	2.3	0
73	Amorphous/crystalline phase control of nanotubular TiO <sub>2</sub> membranes via pressure-engineered anodizing. <i>Materials and Design</i> , <b>2021</b> , 198, 109314	8.1	19
72	Construction of sustainable, fireproof and superhydrophobic wood template for efficient oil/water separation. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 5624-5636	4.3	5
71	Fe <sub>3</sub> C-porous carbon derived from Fe <sub>2</sub> O <sub>3</sub> loaded MOF-74(Zn) for the removal of high concentration BPA: The integrations of adsorptive/catalytic synergies and radical/non-radical mechanisms. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125305	12.8	19
70	Understanding the effect of growth ring orientation on the compressive strength perpendicular to the grain of thermally treated wood. <i>Wood Science and Technology</i> , <b>2021</b> , 55, 1439-1456	2.5	2

69	Effects of chlorite delignification on dynamic mechanical performances and dynamic sorption behavior of wood. <i>Cellulose</i> , <b>2021</b> , 28, 9461-9474	5.5	3
68	New insights into Chinese traditional handmade paper: influence of growth age on morphology and cellulose structure of phloem fibers from <i>Pteroceltis tatarinowii</i> . <i>Cellulose</i> , <b>2021</b> , 28, 9943-9957	5.5	0
67	Improved processability and high fire safety of wood plastic composites via assembling reversible imine crosslinking network. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130295	14.7	4
66	Liquid Transport and Real-Time Dye Purification Lotus Petiole-Inspired Long-Range-Ordered Anisotropic Cellulose Nanofibril Aerogels. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
65	Preparation and Properties of Cyanobacteria-Based Carbon Quantum Dots/Polyvinyl Alcohol/Nanocellulose Composite. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
64	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , <b>2020</b> , 313, 123675	11	8
63	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116548	10.3	23
62	Simultaneous removal of rhodamine B and Cr(VI) from water using cellulose carbon nanofiber incorporated with bismuth oxybromide: The effect of cellulose pyrolysis temperature on photocatalytic performance. <i>Environmental Research</i> , <b>2020</b> , 185, 109414	7.9	26
61	An anionic polyelectrolyte hybrid for wood-polyethylene composites with high strength and fire safety via self-assembly. <i>Construction and Building Materials</i> , <b>2020</b> , 248, 118661	6.7	9
60	Thermothickening Drilling Fluids Containing Bentonite and Dual-Functionalized Cellulose Nanocrystals. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 8206-8215	4.1	16
59	Rapid Preparation of Cellulose Nanofibers from Energy Cane Bagasse and Their Application as Stabilizer and Rheological Modifiers in Magnetorheological Fluid. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	1
58	Using wood flour waste to produce biochar as the support to enhance the visible-light photocatalytic performance of BiOBr for organic and inorganic contaminants removal. <i>Chemosphere</i> , <b>2020</b> , 250, 126291	8.4	30
57	Fatsia Japonica-Derived Hierarchical Porous Carbon for Supercapacitors With High Energy Density and Long Cycle Life. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 89	5	14
56	The effect of lathe checks on the mechanical performance of LVL. <i>European Journal of Wood and Wood Products</i> , <b>2020</b> , 78, 545-554	2.1	4
55	Improved Hydrophobicity and Dimensional Stability of Wood Treated with Paraffin/Acrylate Compound Emulsion through Response Surface Methodology Optimization. <i>Polymers</i> , <b>2020</b> , 12,	4.5	13
54	Antibacterial, Flexible, and Conductive Membrane Based on MWCNTs/Ag Coated Electro-Spun PLA Nanofibrous Scaffolds as Wearable Fabric for Body Motion Sensing. <i>Polymers</i> , <b>2020</b> , 12,	4.5	8
53	Improved mechanical properties and hydrophobicity on wood flour reinforced composites: Incorporation of silica/montmorillonite nanoparticles in polymers. <i>Polymer Composites</i> , <b>2020</b> , 41, 1090-1099	10.99	11
52	A Branched Polyelectrolyte Complex Enables Efficient Flame Retardant and Excellent Robustness for Wood/Polymer Composites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5

51	Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35513-35522	9.5	77
50	Overcoming Salt Contamination of Bentonite Water-Based Drilling Fluids with Blended Dual-Functionalized Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11569-11578	8.3	24
49	The effect of structural changes on the compressive strength of LVL. <i>Wood Science and Technology</i> , <b>2020</b> , 54, 1253-1267	2.5	3
48	A stretchable, self-healing conductive hydrogels based on nanocellulose supported graphene towards wearable monitoring of human motion. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116905	10.3	76
47	Antibacterial nanocomposite based on carbon nanotubes/silver nanoparticles-co-doped polylactic acid. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 793-804	2.4	14
46	Scalable fabrication of tunable titanium nanotubes via sonoelectrochemical process for biomedical applications. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 64, 104783	8.9	27
45	Effects of hybridization and interface modification on mechanical properties of wood flour/polymer composites reinforced by glass fibers. <i>Polymer Composites</i> , <b>2019</b> , 40, 3601-3610	3	4
44	Mechanically adaptive nanocomposites with cellulose nanocrystals: Strain-field mapping with digital image correlation. <i>Carbohydrate Polymers</i> , <b>2019</b> , 211, 11-21	10.3	10
43	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. <i>Cellulose</i> , <b>2019</b> , 26, 6653-6667	5.5	66
42	Direct Ink Writing of Flexible Electronics on Paper Substrate with Graphene/Polypyrrole/Carbon Black Ink. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 3157-3168	1.9	9
41	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	16
40	Effect of solvent fractionation pretreatment on energy consumption of cellulose nanofabrication from switchgrass. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 8010-8022	4.3	15
39	Taguchi design for optimization of structural and mechanical properties of hydroxyapatite-alumina-titanium nanocomposite. <i>Ceramics International</i> , <b>2019</b> , 45, 10097-10105	5.1	13
38	Preparation and Performance of Radiata-Pine-Derived Polyvinyl Alcohol/Carbon Quantum Dots Fluorescent Films. <i>Materials</i> , <b>2019</b> , 13,	3.5	20
37	Rapid microwave activation of waste palm into hierarchical porous carbons for supercapacitors using biochars from different carbonization temperatures as catalysts.. <i>RSC Advances</i> , <b>2019</b> , 9, 19441-19449	3.7	12
36	How does Pickering Emulsion Pre-treatment Influence the Properties of Wood Flour and its Composites with High-Density Polyethylene?. <i>Polymers</i> , <b>2019</b> , 11,	4.5	4
35	Highly Stretchable and Self-Healing Strain Sensors Based on Nanocellulose-Supported Graphene Dispersed in Electro-Conductive Hydrogels. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	75
34	Electrospun Core-Shell Nanofibrous Membranes with Nanocellulose-Stabilized Carbon Nanotubes for Use as High-Performance Flexible Supercapacitor Electrodes with Enhanced Water Resistance, Thermal Stability, and Mechanical Toughness. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44624-44635	9.5	99

33	Influence of Cellulose Nanoparticles on Rheological Behavior of Oil Well Cement-Water Slurries. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
32	The effect of water sorption/desorption on fatigue deflection of OSB. <i>Construction and Building Materials</i> , <b>2019</b> , 223, 1196-1203	6.7	10
31	Nanocellulose-templated assembly of polyaniline in natural rubber-based hybrid elastomers toward flexible electronic conductors. <i>Industrial Crops and Products</i> , <b>2019</b> , 128, 94-107	5.9	124
30	Effect of the nanosilica content in the shell of coextruded wood-plastic composites to enhance the ultraviolet aging resistance. <i>Polymers for Advanced Technologies</i> , <b>2019</b> , 30, 162-169	3.2	12
29	pH-Responsive Water-Based Drilling Fluids Containing Bentonite and Chitin Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3783-3795	8.3	53
28	Grafting polycaprolactone diol onto cellulose nanocrystals via click chemistry: Enhancing thermal stability and hydrophobic property. <i>Carbohydrate Polymers</i> , <b>2018</b> , 189, 331-341	10.3	33
27	Interfacial modification mechanism of nanocellulose as a compatibilizer for immiscible binary poly(vinyl alcohol)/poly(ethylene oxide) blends. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45896	2.9	11
26	Electrospun nanofiber reinforced composites: a review. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 2685-2720	4.9	336
25	Investigating the interaction between internal structural changes and water sorption of MDF and OSB using X-ray computed tomography. <i>Wood Science and Technology</i> , <b>2018</b> , 52, 701-716	2.5	10
24	Graphene oxide incorporated alginate hydrogel beads for the removal of various organic dyes and bisphenol A in water. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 607-615	2.4	33
23	Comparative mechanical, fire-retarding, and morphological properties of high-density polyethylene/(wood flour) composites with different flame retardants. <i>Journal of Vinyl and Additive Technology</i> , <b>2018</b> , 24, 3-12	2	5
22	Coextruded Wood Plastic Composites Containing Recycled Wood Fibers Treated with Micronized Copper-Quat: Mechanical, Moisture Absorption, and Chemical Leaching Performance. <i>Waste and Biomass Valorization</i> , <b>2018</b> , 9, 2237-2244	3.2	12
21	Surface wetting behavior of nanocellulose-based composite films. <i>Cellulose</i> , <b>2018</b> , 25, 5071-5087	5.5	18
20	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27987-28002	9.5	296
19	Novel double-networked polyurethane composites with multi-stimuli responsive functionalities. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17457-17472	13	17
18	Light stabilizers added to the shell of co-extruded wood/high-density polyethylene composites to improve mechanical and anti-UV ageing properties. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 180074	3.3	15
17	A comparative study of different nanoclay-reinforced cellulose nanofibril biocomposites with enhanced thermal and mechanical properties. <i>Composite Interfaces</i> , <b>2018</b> , 25, 301-315	2.3	5
16	Sodium Hydroxide-Free Soy Protein Isolate-Based Films Crosslinked by Pentaerythritol Glycidyl Ether. <i>Polymers</i> , <b>2018</b> , 10,	4.5	6

15	Analysis on the Influence of Component Ratio on Properties of Silica/Montmorillonite Nanocomposites. <i>Materials</i> , <b>2018</b> , 11,	3.5	6
14	The thermal property and flame retardancy of RPC with a polyelectrolyte complex of nanocrystalline cellulose and ammonium polyphosphate. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 2089-2096	4.1	7
13	Highly efficient visible-light photocatalyst based on cellulose derived carbon nanofiber/BiOBr composites. <i>Cellulose</i> , <b>2018</b> , 25, 4133-4144	5.5	44
12	The influence of grafted cellulose nanofibers and postextrusion annealing treatment on selected properties of poly(lactic acid) filaments for 3D printing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 847-855	2.6	44
11	Energy Release Rate Measurement of Welded Bamboo Joints. <i>Journal of Renewable Materials</i> , <b>2017</b> ,	2.4	1
10	Effects of nanocellulose on the structure and properties of poly(vinyl alcohol)-borax hybrid foams. <i>Cellulose</i> , <b>2017</b> , 24, 4433-4448	5.5	101
9	Effect of Hybrid Talc-Basalt Fillers in the Shell Layer on Thermal and Mechanical Performance of Co-Extruded Wood Plastic Composites. <i>Materials</i> , <b>2015</b> , 8, 8510-8523	3.5	15
8	Synergistic effect of nano silicon dioxide and ammonium polyphosphate on flame retardancy of wood fiber/polyethylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 66, 128-134	8.4	53
7	Acrylamide-formaldehyde-urea copolymer as a novel compatibilizer for high density polyethylene/plant fiber composite. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 375-382	2.4	4
6	Understanding the impact of wood type and moisture on the bonding strength of glued wood. <i>Wood Material Science and Engineering</i> , 1-11	1.9	0
5	Heat treatment induces chemical changes and silica sol penetration in wood for properties improvement: hydrophobicity, thermal stability, and surface hardness. <i>Journal of Wood Chemistry and Technology</i> , 1-10	2	2
4	Microstructure, hydrophobicity and thermal stability of wood treated by silica/montmorillonite nanoparticle-stabilized Pickering emulsion (I). <i>Wood Science and Technology</i> , 1	2.5	
3	Unveiling the mechanism of various pretreatments on improving enzymatic hydrolysis efficiency of the giant reed by chromatic analysis. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
2	Effects of furfurylation on interactions between moisture sorption and humidity conditioning of wood. <i>Wood Science and Technology</i> , 1	2.5	1
1	Understanding the mechanical strength and dynamic structural changes of wood-based products using X-ray computed tomography. <i>Wood Material Science and Engineering</i> , 1-10	1.9	1