

Qi Zhou

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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

7,643

citations

46

h-index

87

g-index

88

ext. papers

8,450

ext. citations

7.2

avg, IF

6.23

L-index

#	Paper	IF	Citations
86	Review of the recent developments in cellulose nanocomposite processing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 83, 2-18	8.4	466
85	Multifunctional bionanocomposite films of poly(lactic acid), cellulose nanocrystals and silver nanoparticles. <i>Carbohydrate Polymers</i> , 2012 , 87, 1596-1605	10.3	458
84	Functionalized cellulose nanocrystals as biobased nucleation agents in poly(L-lactide) (PLLA) □ Crystallization and mechanical property effects. <i>Composites Science and Technology</i> , 2010 , 70, 815-821	8.6	416
83	High-porosity aerogels of high specific surface area prepared from nanofibrillated cellulose (NFC). <i>Composites Science and Technology</i> , 2011 , 71, 1593-1599	8.6	398
82	Strong and tough cellulose nanopaper with high specific surface area and porosity. <i>Biomacromolecules</i> , 2011 , 12, 3638-44	6.9	373
81	Mechanical performance tailoring of tough ultra-high porosity foams prepared from cellulose I nanofiber suspensions. <i>Soft Matter</i> , 2010 , 6, 1824	3.6	339
80	Strong Nanocomposite Reinforcement Effects in Polyurethane Elastomer with Low Volume Fraction of Cellulose Nanocrystals. <i>Macromolecules</i> , 2011 , 44, 4422-4427	5.5	327
79	Fast preparation procedure for large, flat cellulose and cellulose/inorganic nanopaper structures. <i>Biomacromolecules</i> , 2010 , 11, 2195-8	6.9	310
78	Hydrophobic cellulose nanocrystals modified with quaternary ammonium salts. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19798		244
77	Surface quaternized cellulose nanofibrils with high water absorbency and adsorption capacity for anionic dyes. <i>Soft Matter</i> , 2013 , 9, 2047	3.6	234
76	Flexible and Responsive Chiral Nematic Cellulose Nanocrystal/Poly(ethylene glycol) Composite Films with Uniform and Tunable Structural Color. <i>Advanced Materials</i> , 2017 , 29, 1701323	24	205
75	Grafting of cellulose fibers with poly(epsilon-caprolactone) and poly(L-lactic acid) via ring-opening polymerization. <i>Biomacromolecules</i> , 2006 , 7, 2178-85	6.9	182
74	Microstructure and nonisothermal cold crystallization of PLA composites based on silver nanoparticles and nanocrystalline cellulose. <i>Polymer Degradation and Stability</i> , 2012 , 97, 2027-2036	4.7	171
73	Wood Nanotechnology for Strong, Mesoporous, and Hydrophobic Biocomposites for Selective Separation of Oil/Water Mixtures. <i>ACS Nano</i> , 2018 , 12, 2222-2230	16.7	156
72	A transparent, hazy, and strong macroscopic ribbon of oriented cellulose nanofibrils bearing poly(ethylene glycol). <i>Advanced Materials</i> , 2015 , 27, 2070-6	24	154
71	Nanostructured biocomposites of high toughness□ wood cellulose nanofiber network in ductile hydroxyethylcellulose matrix. <i>Soft Matter</i> , 2011 , 7, 7342	3.6	140
70	Wood cellulose biocomposites with fibrous structures at micro- and nanoscale. <i>Composites Science and Technology</i> , 2011 , 71, 382-387	8.6	131

69	Electroactive nanofibrillated cellulose aerogel composites with tunable structural and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 19014		123
68	Activation of crystalline cellulose surfaces through the chemoenzymatic modification of xyloglucan. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5715-21	16.4	109
67	Nanocomposites of bacterial cellulose nanofibers and chitin nanocrystals: fabrication, characterization and bactericidal activity. <i>Green Chemistry</i> , 2013 , 15, 3404	10	104
66	Cellulose nanocrystals/polyurethane nanocomposites. Study from the viewpoint of microphase separated structure. <i>Carbohydrate Polymers</i> , 2013 , 92, 751-7	10.3	103
65	Rheological properties of nanocellulose suspensions: effects of fibril/particle dimensions and surface characteristics. <i>Cellulose</i> , 2017 , 24, 2499-2510	5.5	99
64	Biocomposites from Natural Rubber: Synergistic Effects of Functionalized Cellulose Nanocrystals as Both Reinforcing and Cross-Linking Agents via Free-Radical Thiol-ene Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16303-10	9.5	91
63	Xyloglucan in cellulose modification. <i>Cellulose</i> , 2007 , 14, 625-641	5.5	87
62	Tough nanopaper structures based on cellulose nanofibers and carbon nanotubes. <i>Composites Science and Technology</i> , 2013 , 87, 103-110	8.6	83
61	Self-Organization of Cellulose Nanocrystals Adsorbed with Xyloglucan Oligosaccharide/Poly(ethylene glycol)/Polystyrene Triblock Copolymer. <i>Macromolecules</i> , 2009 , 42, 5430-5432	5.5	80
60	Isocyanate-rich cellulose nanocrystals and their selective insertion in elastomeric polyurethane. <i>Composites Science and Technology</i> , 2011 , 71, 1953-1960	8.6	79
59	Nanostructured biocomposites based on bacterial cellulosic nanofibers compartmentalized by a soft hydroxyethylcellulose matrix coating. <i>Soft Matter</i> , 2009 , 5, 4124	3.6	78
58	A transparent hybrid of nanocrystalline cellulose and amorphous calcium carbonate nanoparticles. <i>Nanoscale</i> , 2011 , 3, 3563-6	7.7	74
57	Solution properties of antitumor sulfated derivative of alpha-(1 \rightarrow 3)-D-glucan from <i>Ganoderma lucidum</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2000 , 64, 2172-8	2.1	74
56	Nanostructured membranes based on native chitin nanofibers prepared by mild process. <i>Carbohydrate Polymers</i> , 2014 , 112, 255-63	10.3	73
55	Use of Xyloglucan as a Molecular Anchor for the Elaboration of Polymers from Cellulose Surfaces: A General Route for the Design of Biocomposites. <i>Macromolecules</i> , 2005 , 38, 3547-3549	5.5	72
54	Triple Helix of D-Glucan from <i>Lentinus Edodes</i> in 0.5 M NaCl Aqueous Solution Characterized by Light Scattering. <i>Polymer Journal</i> , 2001 , 33, 317-321	2.7	71
53	Bioinspired Interface Engineering for Moisture Resistance in Nacre-Mimetic Cellulose Nanofibrils/Clay Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20169-20178	9.5	70
52	Water redispersible cellulose nanofibrils adsorbed with carboxymethyl cellulose. <i>Cellulose</i> , 2014 , 21, 4349-4358	5.5	65

51	Bioinspired and highly oriented clay nanocomposites with a xyloglucan biopolymer matrix: extending the range of mechanical and barrier properties. <i>Biomacromolecules</i> , 2013 , 14, 84-91	6.9	56
50	Topochemical acetylation of cellulose nanopaper structures for biocomposites: mechanisms for reduced water vapour sorption. <i>Cellulose</i> , 2014 , 21, 2773-2787	5.5	55
49	Synthesis of multifunctional cellulose nanocrystals for lectin recognition and bacterial imaging. <i>Biomacromolecules</i> , 2015 , 16, 1426-32	6.9	54
48	Friction between cellulose surfaces and effect of xyloglucan adsorption. <i>Biomacromolecules</i> , 2006 , 7, 2147-53	6.9	53
47	BIOREFINERY: Nanofibrillated cellulose for enhancement of strength in high-density paper structures. <i>Nordic Pulp and Paper Research Journal</i> , 2013 , 28, 182-189	1.1	52
46	Chitin synthases from <i>Saprolegnia</i> are involved in tip growth and represent a potential target for anti-oomycete drugs. <i>PLoS Pathogens</i> , 2010 , 6, e1001070	7.6	51
45	Miscibility, free volume behavior and properties of blends from cellulose acetate and castor oil-based polyurethane. <i>Polymer</i> , 2003 , 44, 1733-1739	3.9	50
44	Biodegradability of Regenerated Cellulose Films Coated with Polyurethane/Natural Polymers Interpenetrating Polymer Networks. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 4284-4289	3.9	50
43	Nanostructurally Controlled Hydrogel Based on Small-Diameter Native Chitin Nanofibers: Preparation, Structure, and Properties. <i>ChemSusChem</i> , 2016 , 9, 989-95	8.3	48
42	Transition from Triple Helix to Coil of Lentinan in Solution Measured by SEC, Viscometry, and ¹³ C NMR. <i>Polymer Journal</i> , 2002 , 34, 443-449	2.7	47
41	In situ polymerization and characterization of elastomeric polyurethane-cellulose nanocrystal nanocomposites. Cell response evaluation. <i>Cellulose</i> , 2013 , 20, 1819-1828	5.5	46
40	Impact of microcrystalline cellulose material attributes: a case study on continuous twin screw granulation. <i>International Journal of Pharmaceutics</i> , 2015 , 478, 705-17	6.5	45
39	Surface modification of cellulose nanocrystals by grafting with poly(lactic acid). <i>Polymer International</i> , 2014 , 63, 1056-1062	3.3	45
38	Strong Surface Treatment Effects on Reinforcement Efficiency in Biocomposites Based on Cellulose Nanocrystals in Poly(vinyl acetate) Matrix. <i>Biomacromolecules</i> , 2015 , 16, 3916-24	6.9	44
37	Tamarind seed xyloglucan is a thermostable high-performance biopolymer from non-food feedstock. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4321		42
36	Investigation of the graft length impact on the interfacial toughness in a cellulose/poly(ε-caprolactone) bilayer laminate. <i>Composites Science and Technology</i> , 2011 , 71, 9-12	8.6	39
35	Core-shell cellulose nanofibers for biocomposites - nanostructural effects in hydrated state. <i>Carbohydrate Polymers</i> , 2015 , 125, 92-102	10.3	38
34	Homogeneous hydroxyethylation of cellulose in NaOH/urea aqueous solution. <i>Polymer Bulletin</i> , 2005 , 53, 243-248	2.4	38

33	Glycan-functionalized fluorescent chitin nanocrystals for biorecognition applications. <i>Bioconjugate Chemistry</i> , 2014 , 25, 640-3	6.3	36
32	Engineered xyloglucan specificity in a carbohydrate-binding module. <i>Glycobiology</i> , 2006 , 16, 1171-80	5.8	36
31	Effects of molecular weight of nitrocellulose on structure and properties of polyurethane/nitrocellulose IPNs. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 1623-1631	3.6	35
30	Lytic polysaccharide monooxygenase (LPMO) mediated production of ultra-fine cellulose nanofibres from delignified softwood fibres. <i>Green Chemistry</i> , 2019 , 21, 5924-5933	10	35
29	The influence of surface chemical composition on the adsorption of xyloglucan to chemical and mechanical pulps. <i>Carbohydrate Polymers</i> , 2006 , 63, 449-458	10.3	30
28	Self-Densification of Highly Mesoporous Wood Structure into a Strong and Transparent Film. <i>Advanced Materials</i> , 2020 , 32, e2003653	24	30
27	High-Strength, High-Toughness Aligned Polymer-Based Nanocomposite Reinforced with Ultralow Weight Fraction of Functionalized Nanocellulose. <i>Biomacromolecules</i> , 2018 , 19, 4075-4083	6.9	29
26	Strong and Tough Chitin Film from Chitin Nanofibers Prepared by High Pressure Homogenization and Chitosan Addition. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1692-1697	8.3	29
25	Top-down grafting of xyloglucan to gold monitored by QCM-D and AFM: enzymatic activity and interactions with cellulose. <i>Biomacromolecules</i> , 2008 , 9, 942-8	6.9	28
24	Regioselective modification of a xyloglucan hemicellulose for high-performance biopolymer barrier films. <i>Carbohydrate Polymers</i> , 2013 , 93, 466-72	10.3	27
23	Water-Resistant Film from Polyurethane/Nitrocellulose Coating to Regenerated Cellulose. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 2651-2656	3.9	27
22	Nanopaper membranes from chitin-protein composite nanofibers: structure and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131,	2.9	22
21	Reinforcement Effects from Nanodiamond in Cellulose Nanofibril Films. <i>Biomacromolecules</i> , 2018 , 19, 2423-2431	6.9	21
20	Proteomic Analysis of Plasmodesmata From Cell Suspension Cultures in Relation With Callose Biosynthesis. <i>Frontiers in Plant Science</i> , 2018 , 9, 1681	6.2	21
19	Enhancing strength and toughness of cellulose nanofibril network structures with an adhesive peptide. <i>Carbohydrate Polymers</i> , 2018 , 181, 256-263	10.3	18
18	Xyloglucan and xyloglucan endo-transglycosylases (XET): Tools for ex vivo cellulose surface modification. <i>Biocatalysis and Biotransformation</i> , 2006 , 24, 107-120	2.5	14
17	Well-dispersed polyurethane/cellulose nanocrystal nanocomposites synthesized by a solvent-free procedure in bulk. <i>Polymer Composites</i> , 2019 , 40, E456	3	14
16	Different types of microfibrillated cellulose as filler materials in polysodium acrylate superabsorbents. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011 , 29, 407-413	3.5	12

15	Surface Charges Control the Structure and Properties of Layered Nanocomposite of Cellulose Nanofibrils and Clay Platelets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4463-4472	9.5	12
14	Phase transition of thermosensitive amphiphilic cellulose esters bearing olig(oxyethylene)s. <i>Polymer Bulletin</i> , 2000 , 45, 381-388	2.4	10
13	The conversion of nanocellulose into solvent-free nanoscale liquid crystals by attaching long side-arms for multi-responsive optical materials. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11022-11031	7.1	9
12	Synthesis and properties of O-2-[2-(2-methoxyethoxy)ethoxy]acetyl cellulose. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 376-382	2.5	9
11	Rhamnogalacturonan-I Based Microcapsules for Targeted Drug Release. <i>PLoS ONE</i> , 2016 , 11, e0168050	3.7	9
10	Strong Foam-like Composites from Highly Mesoporous Wood and Metal-Organic Frameworks for Efficient CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	8
9	Stronger cellulose microfibril network structure through the expression of cellulose-binding modules in plant primary cell walls. <i>Cellulose</i> , 2019 , 26, 3083-3094	5.5	7
8	Structure and Self-Assembly of Lytic Polysaccharide Monooxygenase-Oxidized Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11331-11341	8.3	6
7	High strength and low swelling composite hydrogels from gelatin and delignified wood. <i>Scientific Reports</i> , 2020 , 10, 17842	4.9	4
6	Preparation and Viscoelastic Properties of Composite Fibres Containing Cellulose Nanofibrils: Formation of a Coherent Fibrillar Network. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-10	3.2	4
5	Strong, transparent, and thermochromic composite hydrogel from wood derived highly mesoporous cellulose network and PNIPAM. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 154, 106757	8.4	3
4	Assembly of AIEgen-based Fluorescent Metal-Organic Framework Nanosheets and Seaweed Cellulose Nanofibrils for Humidity Sensing and UV-shielding.. <i>Advanced Materials</i> , 2022 , e2201470	24	3
3	Nanocellulose-Based Green Nanocomposite Materials 2016 , 118-148		1
2	Surface Functionalization of Spruce-Derived Cellulose Scaffold for Glycoprotein Separation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100787	4.6	1
1	Surface Functionalization of Spruce-Derived Cellulose Scaffold for Glycoprotein Separation (Adv. Mater. Interfaces 19/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170106	4.6	