

List of Publications by Citations

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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.

82 papers	2,528 citations	25 h-index	49 g-index
88 ext. papers	3,163 ext. citations	7.9 avg, IF	5.51 L-index

#	Paper	IF	Citations
82	Chitin nanocrystals prepared by TEMPO-mediated oxidation of alpha-chitin. <i>Biomacromolecules</i> , 2008 , 9, 192-8	6.9	280
81	Preparation of chitin nanofibers from squid pen beta-chitin by simple mechanical treatment under acid conditions. <i>Biomacromolecules</i> , 2008 , 9, 1919-23	6.9	265
80	Individual chitin nano-whiskers prepared from partially deacetylated chitin by fibril surface cationization. <i>Carbohydrate Polymers</i> , 2010 , 79, 1046-1051	10.3	226
79	Biopolymer nanofibrils: structure, modeling, preparation, and applications. <i>Progress in Polymer Science</i> , 2018 , 85, 1-56	29.6	183
78	Comparative characterization of aqueous dispersions and cast films of different chitin nanowhiskers/nanofibers. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 69-76	7.9	144
77	TEMPO-mediated oxidation of chitin to prepare individual nanofibrils. <i>Carbohydrate Polymers</i> , 2009 , 77, 832-838	10.3	117
76	Multifunctional coating films by layer-by-layer deposition of cellulose and chitin nanofibrils. <i>Biomacromolecules</i> , 2012 , 13, 553-8	6.9	88
75	Robust Self-Standing Chitin Nanofiber/Nanowhiser Hydrogels with Designed Surface Charges and Ultralow Mass Content via Gas Phase Coagulation. <i>Biomacromolecules</i> , 2016 , 17, 3773-3781	6.9	72
74	Tensan Silk-Inspired Hierarchical Fibers for Smart Textile Applications. <i>ACS Nano</i> , 2018 , 12, 6968-6977	16.7	69
73	Self-Assembled Networks of Short and Long Chitin Nanoparticles for Oil/Water Interfacial Superstabilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6497-6511	8.3	61
72	Cellulose Nanofibers Prepared Using the TEMPO/Laccase/O System. <i>Biomacromolecules</i> , 2017 , 18, 288-294	8.4	58
71	Preparation of 3D printable micro/nanocellulose-polylactic acid (MNC/PLA) composite wire rods with high MNC constitution. <i>Industrial Crops and Products</i> , 2017 , 109, 889-896	5.9	46
70	High-purity lignin isolated from poplar wood meal through dissolving treatment with deep eutectic solvents. <i>Royal Society Open Science</i> , 2019 , 6, 181757	3.3	43
69	High Axial Ratio Nanochitins for Ultrastrong and Shape-Recoverable Hydrogels and Cryogels via Ice Templating. <i>ACS Nano</i> , 2019 , 13, 2927-2935	16.7	41
68	Preparation of High-Strength Sustainable Lignocellulose Gels and Their Applications for Antiuaviolet Weathering and Dye Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2998-3009	8.3	41
67	Cholesteric film of Cu(II)-doped cellulose nanocrystals for colorimetric sensing of ammonia gas. <i>Carbohydrate Polymers</i> , 2017 , 174, 531-539	10.3	38
66	Chitin nanocrystals prepared by oxidation of chitin using the O/laccase/TEMPO system. <i>Carbohydrate Polymers</i> , 2018 , 189, 178-183	10.3	37

65	Construction of arabinogalactans/selenium nanoparticles composites for enhancement of the antitumor activity. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 444-451	7.9	35
64	Dissolution of Lignocelluloses with a High Lignin Content in a N-Methylmorpholine-N-oxide Monohydrate Solvent System via Simple Glycerol-Swelling and Mechanical Pretreatments. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 9587-9594	5.7	30
63	Contribution of hemicellulose to cellulose nanofiber-based nanocomposite films with enhanced strength, flexibility and UV-blocking properties. <i>Cellulose</i> , 2019 , 26, 6023-6034	5.5	29
62	Lignin-Directed Control of Silver Nanoparticles with Tunable Size in Porous Lignocellulose Hydrogels and Their Application in Catalytic Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12655-12663	8.3	29
61	Chemically Functionalized Silk for Human Bone Marrow-Derived Mesenchymal Stem Cells Proliferation and Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14406-13	9.5	28
60	Adsorption of Reactive Blue 19 from aqueous solution by chitin nanofiber-/nanowhisker-based hydrogels.. <i>RSC Advances</i> , 2018 , 8, 15804-15812	3.7	26
59	Synthesis of lignocellulose-based composite hydrogel as a novel biosorbent for Cu ²⁺ removal. <i>Cellulose</i> , 2018 , 25, 7315-7328	5.5	26
58	Characterization of arabinogalactans from <i>Larix principis-rupprechtii</i> and their effects on NO production by macrophages. <i>Carbohydrate Polymers</i> , 2018 , 200, 408-415	10.3	25
57	Sustainable thermoplastic elastomers derived from cellulose, fatty acid and furfural via ATRP and click chemistry. <i>Carbohydrate Polymers</i> , 2017 , 176, 83-90	10.3	24
56	Preparation of nanocellulose/filter paper (NC/FP) composite membranes for high-performance filtration. <i>Cellulose</i> , 2019 , 26, 1183-1194	5.5	24
55	Contribution of lignin to the microstructure and physical performance of three-dimensional lignocellulose hydrogels. <i>Cellulose</i> , 2019 , 26, 2375-2388	5.5	24
54	Preparation, assessment, and comparison of chitin nano-fiber films with different surface charges. <i>Nanoscale Research Letters</i> , 2015 , 10, 226	5	23
53	Reinforced chitosan beads by chitin nanofibers for the immobilization of α -glucosidase. <i>RSC Advances</i> , 2015 , 5, 93331-93336	3.7	19
52	Preparation and Hydrogel Properties of pH-Sensitive Amphoteric Chitin Nanocrystals. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 11372-11379	5.7	19
51	Biocatalyzed route for the preparation of surface-deacetylated chitin nanofibers. <i>Green Chemistry</i> , 2019 , 21, 3143-3151	10	18
50	Upgrading Pectin Production from Apple Pomace by Acetic Acid Extraction. <i>Applied Biochemistry and Biotechnology</i> , 2019 , 187, 1300-1311	3.2	18
49	Preparation of natural amphoteric silk nanofibers by acid hydrolysis. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1450-1459	7.3	17
48	Chirality from Cryo-Electron Tomograms of Nanocrystals Obtained by Lateral Disassembly and Surface Etching of Never-Dried Chitin. <i>ACS Nano</i> , 2020 , 14, 6921-6930	16.7	17

47	Improvement of nanofibrillation efficiency of β -chitin in water by selecting acid used for surface cationisation. <i>RSC Advances</i> , 2013 , 3, 2613	3.7	17
46	Comparison of cast films and hydrogels based on chitin nanofibers prepared using TEMPO/NaBr/NaClO and TEMPO/NaClO/NaClO systems. <i>Carbohydrate Polymers</i> , 2020 , 237, 116125	10.3	16
45	A comparative study of lignocellulosic nanofibrils isolated from celery using oxalic acid hydrolysis followed by sonication and mechanical fibrillation. <i>Cellulose</i> , 2019 , 26, 5237-5246	5.5	15
44	Sulfated modification of arabinogalactans from <i>Larix principis-rupprechtii</i> and their antitumor activities. <i>Carbohydrate Polymers</i> , 2019 , 215, 207-212	10.3	14
43	Investigation of Pretreatment Methods for Improving TEMPO-Mediated Oxidation and Nanofibrillation Efficiency of β -chitin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19463-19473	8.3	14
42	Preparation of Silk Nanowhisker-Composited Amphoteric Cellulose/Chitin Nanofiber Membranes. <i>Biomacromolecules</i> , 2020 , 21, 1625-1635	6.9	13
41	Salt-Induced Colloidal Destabilization, Separation, Drying, and Redispersion in Aqueous Phase of Cationic and Anionic Nanochitins. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 9189-9198	5.7	13
40	High-yield preparation of cellulose nanofiber by small quantity acid assisted milling in glycerol. <i>Cellulose</i> , 2019 , 26, 3735-3745	5.5	12
39	An optimized preparation of nanofiber hydrogels derived from natural carbohydrate polymers and their drug release capacity under different pH surroundings. <i>Carbohydrate Polymers</i> , 2021 , 265, 118008	10.3	12
38	DDA (degree of deacetylation) and pH-dependent antibacterial properties of chitin nanofibers against <i>Escherichia coli</i> . <i>Cellulose</i> , 2019 , 26, 2279-2290	5.5	11
37	Preparation of Natural Multicompatible Silk Nanofibers by Green Deep Eutectic Solvent Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4499-4510	8.3	11
36	Influence of Chemical and Enzymatic TEMPO-Mediated Oxidation on Chemical Structure and Nanofibrillation of Lignocellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14198-14206	8.3	10
35	Arabinogalactans from <i>Larix principis-rupprechtii</i> : An investigation into the structure-function contribution of side-chain structures. <i>Carbohydrate Polymers</i> , 2020 , 227, 115354	10.3	9
34	Facile and sustainable etherification of ethyl cellulose towards excellent UV blocking and fluorescence properties. <i>Green Chemistry</i> , 2021 , 23, 479-489	10	9
33	Self-assembling oxidized silk fibroin nanofibrils with controllable fractal dimensions. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4656-4664	7.3	9
32	Versatile protonic acid mediated preparation of partially deacetylated chitin nanofibers/nanowhiskers and their assembling of nano-structured hydro- and aero-gels. <i>Cellulose</i> , 2017 , 24, 5443-5454	5.5	8
31	Strengthened cellulosic gels by the chemical gelation of cellulose via crosslinking with TEOS. <i>Cellulose</i> , 2019 , 26, 9819-9829	5.5	8
30	Synthesis and Characterization of an Antioxidative Galactomannan-Iron(III) Complex from Seed. <i>Polymers</i> , 2018 , 11,	4.5	8

29	Hypolipidemic activities of partially deacetylated chitin nanofibers/nanowhiskers in mice. <i>Food and Nutrition Research</i> , 2018 , 62,	3.1	8
28	Fungal chitosan production using xylose rich of corn stover prehydrolysate by <i>Rhizopus oryzae</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2017 , 31, 1160-1166	1.6	7
27	Contribution of lignin in esterified lignocellulose nanofibers (LCNFs) prepared by deep eutectic solvent treatment to the interface compatibility of LCNF/PLA composites. <i>Industrial Crops and Products</i> , 2021 , 166, 113460	5.9	7
26	Improving the enzymatic hydrolysis of larch by coupling water pre-extraction with alkaline hydrogen peroxide post-treatment and adding enzyme cocktail. <i>Bioresource Technology</i> , 2019 , 285, 121322	11.1	6
25	A combination of aqueous counter collision and TEMPO-mediated oxidation for doubled carboxyl contents of chitin nanofibers. <i>Cellulose</i> , 2021 , 28, 2167-2181	5.5	6
24	Physical nanochitin/microemulsion composite hydrogels for hydrophobic Nile Red release under in vitro physiological conditions. <i>Cellulose</i> , 2019 , 26, 1221-1230	5.5	5
23	Visualization and improvement of the physical gelation process during gas phase coagulation through acid-base indicator staining, monitoring and optimization. <i>Cellulose</i> , 2020 , 27, 6871-6886	5.5	4
22	Nanochitin: Chemistry, Structure, Assembly, and Applications. <i>Chemical Reviews</i> ,	68.1	4
21	Multiplexing microelectrodes for dielectrophoretic manipulation and electrical impedance measurement of single particles and cells in a microfluidic device. <i>Electrophoresis</i> , 2019 , 40, 1436-1445	3.6	3
20	Facile preparation of nanochitins via acid assisted colloid milling in glycerol. <i>Cellulose</i> , 2020 , 27, 6935-6944	5.5	3
19	Oxidizing and Nano-dispersing the Natural Silk Fibers. <i>Nanoscale Research Letters</i> , 2019 , 14, 250	5	3
18	Structure of Keratin. <i>Methods in Molecular Biology</i> , 2021 , 2347, 41-53	1.4	3
17	A microfluidic single-cell array for in situ laminar-flow-based comparative culturing of budding yeast cells. <i>Talanta</i> , 2021 , 231, 122401	6.2	3
16	TEMPO-oxidized nanochitin based hydrogels and inter-structure tunable cryogels prepared by sequential chemical and physical crosslinking. <i>Carbohydrate Polymers</i> , 2021 , 272, 118495	10.3	3
15	Fabrication of glycerophosphate-based nanochitin hydrogels for prolonged release under in vitro physiological conditions. <i>Cellulose</i> , 2021 , 28, 4887-4897	5.5	2
14	Rate-Limited Reaction in TEMPO/Laccase/O ₂ Oxidation of Cellulose. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000501	4.8	2
13	One-Step Preparation of Chitin Nanofiber Dispersion in Full pH Surroundings Using Recyclable Solid Oxalic Acid and Evaluation of Redispersed Performance. <i>Biomacromolecules</i> , 2021 , 22, 4373-4382	6.9	2
12	TEMPO/Laccase/O ₂ Oxidation of Native Cellulose for the Preparation of Cellulose Nanofibers. <i>ACS Symposium Series</i> , 2017 , 191-201	0.4	1

11	Re-dispersible chitin nanofibrils with improved stability in green solvents for fabricating hydrophobic aerogels.. <i>Carbohydrate Polymers</i> , 2022 , 283, 119138	10.3	1
10	Top-down extraction of surface carboxylated-silk nanocrystals and application in hydrogel preparation. <i>International Journal of Biological Macromolecules</i> , 2021 , 174, 162-174	7.9	1
9	A high-throughput microfluidic diploid yeast long-term culturing (DYLC) chip capable of bud reorientation and concerted daughter dissection for replicative lifespan determination.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 171	9.4	1
8	A honeycomb-like hydrogel in-situ constructed by <i>Streptococcus zooepidemicus</i> and TOCN for the proliferation of bacteria.. <i>Carbohydrate Polymers</i> , 2022 , 281, 119099	10.3	0
7	Shape-recoverable, piezoresistive, and thermally insulated xerogels based on nanochitin-stabilized Pickering foams.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118934	10.3	0
6	Removal of inhibitory furan aldehydes in lignocellulosic hydrolysates via chitosan-chitin nanofiber hybrid hydrogel beads.. <i>Bioresource Technology</i> , 2021 , 346, 126563	11	0
5	Real-Time Monitoring of Dissection Events of Single Budding Yeast in a Microfluidic Cell-Culturing Device Integrated With Electrical Impedance Biosensor. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 783428	5.8	0
4	Facile route to tri-carboxyl chitin nanocrystals from di-aldehyde chitin modified by selective periodate oxidation.. <i>International Journal of Biological Macromolecules</i> , 2022 , 211, 281-288	7.9	0
3	Preparation of Amyloid Fibrils Using Recombinant Technology. <i>Methods in Molecular Biology</i> , 2021 , 2347, 113-121	1.4	
2	Methods to Synthesize and Assemble Recombinant Keratins. <i>Methods in Molecular Biology</i> , 2021 , 2347, 105-112	1.4	
1	Structure of Animal Silks. <i>Methods in Molecular Biology</i> , 2021 , 2347, 3-15	1.4	