

# Nathalie Lavoine

## 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.

30 papers	2,205 citations	17 h-index	31 g-index
31 ext. papers	2,552 ext. citations	8 avg, IF	5.55 L-index

#	Paper	IF	Citations
30	Microfibrillated cellulose - its barrier properties and applications in cellulosic materials: a review. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 735-64	10.3	1153
29	Nanocellulose-based foams and aerogels: processing, properties, and applications. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16105-16117	13	335
28	Microfibrillated cellulose coatings as new release systems for active packaging. <i>Carbohydrate Polymers</i> , <b>2014</b> , 103, 528-37	10.3	105
27	Impact of different coating processes of microfibrillated cellulose on the mechanical and barrier properties of paper. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 2879-2893	4.3	83
26	Elaboration of a new antibacterial bio-nano-material for food-packaging by synergistic action of cyclodextrin and microfibrillated cellulose. <i>Innovative Food Science and Emerging Technologies</i> , <b>2014</b> , 26, 330-340	6.8	59
25	Active bio-based food-packaging: Diffusion and release of active substances through and from cellulose nanofiber coating toward food-packaging design. <i>Carbohydrate Polymers</i> , <b>2016</b> , 149, 40-50	10.3	56
24	Controlled release and long-term antibacterial activity of chlorhexidine digluconate through the nanoporous network of microfibrillated cellulose. <i>Cellulose</i> , <b>2014</b> , 21, 4429-4442	5.5	46
23	Mechanical and barrier properties of cardboard and 3D packaging coated with microfibrillated cellulose. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	43
22	Reducing end modification on cellulose nanocrystals: strategy, characterization, applications and challenges. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 607-627	10.8	41
21	Toward a deeper understanding of the thermal degradation mechanism of nanocellulose. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 146, 53-60	4.7	39
20	Improvement of the Thermal Stability of TEMPO-Oxidized Cellulose Nanofibrils by Heat-Induced Conversion of Ionic Bonds to Amide Bonds. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 1033-9	4.8	36
19	Controlled release of chlorhexidine digluconate using Cyclodextrin and microfibrillated cellulose. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 121, 196-205	6	31
18	Antibacterial paperboard packaging using microfibrillated cellulose. <i>Journal of Food Science and Technology</i> , <b>2015</b> , 52, 5590-600	3.3	27
17	Thermal conductivity of hygroscopic foams based on cellulose nanofibrils and a nonionic polyoxamer. <i>Cellulose</i> , <b>2018</b> , 25, 1117-1126	5.5	25
16	Analysis of the Porous Architecture and Properties of Anisotropic Nanocellulose Foams: A Novel Approach to Assess the Quality of Cellulose Nanofibrils (CNFs). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11959-11967	8.3	25
15	Cyclodextrin-grafted TEMPO-oxidized cellulose nanofibers for sustained release of essential oil. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3849-3861	4.3	23
14	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005538	24	21

13	Structural reconstruction strategies for the design of cellulose nanomaterials and aligned wood cellulose-based functional materials - A review. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116722	10.3	13
12	Formulating bioplastic composites for biodegradability, recycling, and performance: A Review. <i>BioResources</i> , <b>2020</b> , 16, 2021-2083	1.3	11
11	Optimization of preparation of thermally stable cellulose nanofibrils via heat-induced conversion of ionic bonds to amide bonds. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 1750-1756	2.5	10
10	Humidity-Dependent Thermal Boundary Conductance Controls Heat Transport of Super-Insulating Nanofibrillar Foams. <i>Matter</i> , <b>2021</b> , 4, 276-289	12.7	8
9	Lightweight foams of amine-rich organosilica and cellulose nanofibrils by foaming and controlled condensation of aminosilane. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 2220-2229	7.8	5
8	Design strategies, properties and applications of cellulose nanomaterials-enhanced products with residual, technical or nanoscale lignin-A review. <i>Carbohydrate Polymers</i> , <b>2021</b> , 254, 117480	10.3	4
7	Modeling of caffeine release from a cellulosic substrate coated with microfibrillated cellulose. <i>Journal of Controlled Release</i> , <b>2015</b> , 213, e83-4	11.7	2
6	Valorization of mixed office waste as macro-, micro-, and nano-sized particles in recycled paper containerboards for enhanced performance and improved environmental perception. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 180, 106125	11.9	1
5	Highlights on the mechanical pre-refining step in the production of wood cellulose nanofibrils. <i>Cellulose</i> , <b>2021</b> , 28, 11329	5.5	1
4	Preparation and Properties of Nanopolysaccharides. <i>Springer Series in Biomaterials Science and Engineering</i> , <b>2019</b> , 1-54	0.6	1
3	Fostering entrepreneurial thinking in biomaterials education. <i>BioResources</i> , <b>2022</b> , 17, 1-2	1.3	1
2	Barrier Properties of Bionanocomposite Films. <i>Composites Science and Technology</i> , <b>2022</b> , 103-123		0
1	Cellulose Nanofiber Templating: Recent Advances in Functional Materials through Cellulose Nanofiber Templating (Adv. Mater. 12/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170094	24	