Nathalie Lavoine

List of Publications by Year in Descending Order

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	Valorization of mixed office waste as macro-, micro-, and nano-sized particles in recycled paper containerboards for enhanced performance and improved environmental perception. *Resources, Conservation and Recycling*, **2022**, 180, 106125	11.9	1
29	Barrier Properties of Bionanocomposite Films. *Composites Science and Technology*, **2022**, 103-123		0
28	Fostering entrepreneurial thinking in biomaterials education. *BioResources*, **2022**, 17, 1-2	1.3	1
27	Highlights on the mechanical pre-refining step in the production of wood cellulose nanofibrils. *Cellulose*, **2021**, 28, 11329	5.5	1
26	Cellulose Nanofiber Templating: Recent Advances in Functional Materials through Cellulose Nanofiber Templating (Adv. Mater. 12/2021). *Advanced Materials*, **2021**, 33, 2170094	24	
25	Humidity-Dependent Thermal Boundary Conductance Controls Heat Transport of Super-Insulating Nanofibrillar Foams. *Matter*, **2021**, 4, 276-289	12.7	8
24	Design strategies, properties and applications of cellulose nanomaterials-enhanced products with residual, technical or nanoscale lignin-A review. *Carbohydrate Polymers*, **2021**, 254, 117480	10.3	4
23	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. *Advanced Materials*, **2021**, 33, e2005538	24	21
22	Structural reconstruction strategies for the design of cellulose nanomaterials and aligned wood cellulose-based functional materials - A review. *Carbohydrate Polymers*, **2020**, 247, 116722	10.3	13
21	Formulating bioplastic composites for biodegradability, recycling, and performance: A Review. *BioResources*, **2020**, 16, 2021-2083	1.3	11
20	Reducing end modification on cellulose nanocrystals: strategy, characterization, applications and challenges. *Nanoscale Horizons*, **2020**, 5, 607-627	10.8	41
19	Preparation and Properties of Nanopolysaccharides. *Springer Series in Biomaterials Science and Engineering*, **2019**, 1-54	0.6	1
18	Thermal conductivity of hygroscopic foams based on cellulose nanofibrils and a nonionic polyoxamer. *Cellulose*, **2018**, 25, 1117-1126	5.5	25
17	Analysis of the Porous Architecture and Properties of Anisotropic Nanocellulose Foams: A Novel Approach to Assess the Quality of Cellulose Nanofibrils (CNFs). *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11959-11967	8.3	25
16	Lightweight foams of amine-rich organosilica and cellulose nanofibrils by foaming and controlled condensation of aminosilane. *Materials Chemistry Frontiers*, **2018**, 2, 2220-2229	7.8	5
15	Optimization of preparation of thermally stable cellulose nanofibrils via heat-induced conversion of ionic bonds to amide bonds. *Journal of Polymer Science Part A*, **2017**, 55, 1750-1756	2.5	10
14	Nanocellulose-based foams and aerogels: processing, properties, and applications. *Journal of Materials Chemistry A*, **2017**, 5, 16105-16117	13	335

13	Cyclodextrin-grafted TEMPO-oxidized cellulose nanofibers for sustained release of essential oil. *Journal of Materials Science*, **2017**, 52, 3849-3861	4.3	23
12	Toward a deeper understanding of the thermal degradation mechanism of nanocellulose. *Polymer Degradation and Stability*, **2017**, 146, 53-60	4.7	39
11	Improvement of the Thermal Stability of TEMPO-Oxidized Cellulose Nanofibrils by Heat-Induced Conversion of Ionic Bonds to Amide Bonds. *Macromolecular Rapid Communications*, **2016**, 37, 1033-9	4.8	36
10	Active bio-based food-packaging: Diffusion and release of active substances through and from cellulose nanofiber coating toward food-packaging design. *Carbohydrate Polymers*, **2016**, 149, 40-50	10.3	56
9	Modeling of caffeine release from a cellulosic substrate coated with microfibrillated cellulose. *Journal of Controlled Release*, **2015**, 213, e83-4	11.7	2
8	Antibacterial paperboard packaging using microfibrillated cellulose. *Journal of Food Science and Technology*, **2015**, 52, 5590-600	3.3	27
7	Impact of different coating processes of microfibrillated cellulose on the mechanical and barrier properties of paper. *Journal of Materials Science*, **2014**, 49, 2879-2893	4.3	83
6	Controlled release and long-term antibacterial activity of chlorhexidine digluconate through the nanoporous network of microfibrillated cellulose. *Cellulose*, **2014**, 21, 4429-4442	5.5	46
5	Elaboration of a new antibacterial bio-nano-material for food-packaging by synergistic action of cyclodextrin and microfibrillated cellulose. *Innovative Food Science and Emerging Technologies*, **2014** , 26, 330-340	6.8	59
4	Microfibrillated cellulose coatings as new release systems for active packaging. *Carbohydrate Polymers*, **2014**, 103, 528-37	10.3	105
3	Controlled release of chlorhexidine digluconate using cyclodextrin and microfibrillated cellulose. *Colloids and Surfaces B: Biointerfaces*, **2014**, 121, 196-205	6	31
2	Mechanical and barrier properties of cardboard and 3D packaging coated with microfibrillated cellulose. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	43
1	Microfibrillated cellulose - its barrier properties and applications in cellulosic materials: a review. *Carbohydrate Polymers*, **2012**, 90, 735-64	10.3	1153