Cyprien Mauroy

List of Publications by Year in Descending Order

40 papers	1,034 citations	16 h-index	31 g-index
44 ext. papers	1,225 ext. citations	6.6 avg, IF	4.67 L-index

#	Paper	IF	Citations
40	Divergent growth of poly(amidoamine) dendrimer-like branched polymers at the reducing end of cellulose nanocrystals.. *Carbohydrate Polymers*, **2022**, 279, 119008	10.3	2
39	Dextran-based polyelectrolyte multilayers: Effect of charge density on film build-up and morphology. *Colloids and Surfaces B: Biointerfaces*, **2021**, 210, 112258	6	2
38	The SERENADE project; a step forward in the safe by design process of nanomaterials: The benefits of a diverse and interdisciplinary approach. *Nano Today*, **2021**, 37, 101065	17.9	4
37	Cellulose Nanocrystal-Fibrin Nanocomposite Hydrogels Promoting Myotube Formation. *Biomacromolecules*, **2021**, 22, 2740-2753	6.9	3
36	Multicriteria Definition of Small-Scale Biorefineries Based on a Statistical Classification. *Sustainability*, **2021**, 13, 7310	3.6	2
35	Hierarchical thermoplastic biocomposites reinforced with flax fibres modified by xyloglucan and cellulose nanocrystals. *Carbohydrate Polymers*, **2021**, 254, 117403	10.3	5
34	Influence of arabinoxylan on the drying of cellulose nanocrystals suspension: From coffee ring to Maltese cross pattern and application to enzymatic detection. *Journal of Colloid and Interface Science*, **2021**, 587, 727-735	9.3	4
33	Bioinspired Thermoresponsive Xyloglucan-Cellulose Nanocrystal Hydrogels. *Biomacromolecules*, **2021**, 22, 743-753	6.9	5
32	Cellulose Nanofibrils/Xyloglucan Bio-Based Aerogels with Shape Recovery. *Gels*, **2021**, 7,	4.2	4
31	Development of Bio-Inspired Hierarchical Fibres to Tailor the Fibre/Matrix Interphase in (Bio)composites. *Polymers*, **2021**, 13,	4.5	3
30	Plant cell wall inspired xyloglucan/cellulose nanocrystals aerogels produced by freeze-casting. *Carbohydrate Polymers*, **2020**, 247, 116642	10.3	12
29	Adsorption Behavior of Reducing End-Modified Cellulose Nanocrystals: A Kinetic Study Using Quartz Crystal Microbalance. *Journal of Renewable Materials*, **2020**, 8, 29-43	2.4	5
28	pH-Responsive Properties of Asymmetric Nanopapers of Nanofibrillated Cellulose. *Nanomaterials*, **2020**, 10,	5.4	2
27	Asymmetric modification of cellulose nanocrystals with PAMAM dendrimers for the preparation of pH-responsive hairy surfaces. *Carbohydrate Polymers*, **2020**, 249, 116779	10.3	8
26	Xyloglucan Structure Impacts the Mechanical Properties of Xyloglucan-Cellulose Nanocrystal Layered Films-A Buckling-Based Study. *Biomacromolecules*, **2020**, 21, 3898-3908	6.9	5
25	Influence of the carbohydrate-binding module on the activity of a fungal AA9 lytic polysaccharide monooxygenase on cellulosic substrates. *Biotechnology for Biofuels*, **2019**, 12, 206	7.8	31
24	Arabinoxylan/Cellulose Nanocrystal Hydrogels with Tunable Mechanical Properties. *Langmuir*, **2019**, 35, 13427-13434	4	9

23	Meaning of xylan acetylation on xylan-cellulose interactions: A quartz crystal microbalance with dissipation (QCM-D) and molecular dynamic study. *Carbohydrate Polymers*, **2019**, 226, 115315	10.3	17
22	Sustainable Modification of Carboxymethyl Cellulose by Passerini Three-Component Reaction and Subsequent Adsorption onto Cellulosic Substrates. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14685-14696	8.3	10
21	Influence of Xyloglucan Molar Mass on Rheological Properties of Cellulose Nanocrystal/Xyloglucan Hydrogels. *Journal of Renewable Materials*, **2019**, 7, 1381-1390	2.4	6
20	Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. *Langmuir*, **2018**, 34, 3386-3394	4	13
19	Star-like Supramolecular Complexes of Reducing-End-Functionalized Cellulose Nanocrystals. *ACS Omega*, **2018**, 3, 16203-16211	3.9	16
18	Effect of xyloglucan molar mass on its assembly onto the cellulose surface and its enzymatic susceptibility. *Carbohydrate Polymers*, **2017**, 157, 1105-1112	10.3	16
17	Relationship between Young's Modulus and Film Architecture in Cellulose Nanofibril-Based Multilayered Thin Films. *Langmuir*, **2017**, 33, 4138-4145	4	14
16	Concentration driven cocrystallisation and percolation in all-cellulose nanocomposites. *Cellulose*, **2016**, 23, 529-543	5.5	15
15	Tuning supramolecular interactions of cellulose nanocrystals to design innovative functional materials. *Industrial Crops and Products*, **2016**, 93, 96-107	5.9	38
14	Kinetic aspects of the adsorption of xyloglucan onto cellulose nanocrystals. *Soft Matter*, **2015**, 11, 6472-81	3.6	43
13	Influence of cellulose nanocrystals concentration and ionic strength on the elaboration of cellulose nanocrystals-xyloglucan multilayered thin films. *Journal of Colloid and Interface Science*, **2015**, 460, 214-20	8.3	16
12	Exploring architecture of xyloglucan cellulose nanocrystal complexes through enzyme susceptibility at different adsorption regimes. *Biomacromolecules*, **2015**, 16, 589-96	6.9	21
11	Chitin nanocrystal-xyloglucan multilayer thin films. *Biomacromolecules*, **2014**, 15, 188-94	6.9	26
10	Cellulose nanofibril-based multilayered thin films: effect of ionic strength on porosity, swelling, and optical properties. *Langmuir*, **2014**, 30, 8091-100	4	19
9	Xyloglucan-cellulose nanocrystal multilayered films: effect of film architecture on enzymatic hydrolysis. *Biomacromolecules*, **2013**, 14, 3599-609	6.9	40
8	Surfactant-free high internal phase emulsions stabilized by cellulose nanocrystals. *Biomacromolecules*, **2013**, 14, 291-6	6.9	312
7	Elaboration of multilayered thin films based on cellulose nanocrystals and cationic xylans: application to xylanase activity detection. *Holzforschung*, **2013**, 67, 579-586	2	22
6	Cellulose nanocrystal-assisted dispersion of luminescent single-walled carbon nanotubes for layer-by-layer assembled hybrid thin films. *Langmuir*, **2012**, 28, 12463-71	4	99

5	Nano-structured cellulose nanocrystals-xyloglucan multilayered films for the detection of cellulase activity. *European Physical Journal: Special Topics*, **2012**, 213, 291-294	2.3	11
4	Tuning the architecture of cellulose nanocrystal-poly(allylamine hydrochloride) multilayered thin films: influence of dipping parameters. *Langmuir*, **2012**, 28, 10425-36	4	40
3	Coloured semi-reflective thin films for biomass-hydrolyzing enzyme detection. *Advanced Materials*, **2011**, 23, 3791-5	24	32
2	Elaboration of spin-coated cellulose-xyloglucan multilayered thin films. *Langmuir*, **2010**, 26, 17248-55	4	52
1	Improved colloidal stability of bacterial cellulose nanocrystal suspensions for the elaboration of spin-coated cellulose-based model surfaces. *Biomacromolecules*, **2010**, 11, 3144-51	6.9	50