# Cyprien Mauroy

List of Publications by Year
in descending order



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|---|---|---|---|
| 43 papers | 1,412 citations | 393982 19 h-index | 329751 37 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 1864 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surfactant-Free High Internal Phase Emulsions Stabilized by Cellulose Nanocrystals. Biomacromolecules, 2013, 14, 291-296. | 2.6 | 363 |
| 2 | Cellulose Nanocrystal-Assisted Dispersion of Luminescent Single-Walled Carbon Nanotubes for Layer-by-Layer Assembled Hybrid Thin Films. Langmuir, 2012, 28, 12463-12471. | 1.6 | 123 |
| 3 | Improved Colloidal Stability of Bacterial Cellulose Nanocrystal Suspensions for the Elaboration of Spin-Coated Cellulose-Based Model Surfaces. Biomacromolecules, 2010, 11, 3144-3151. | 2.6 | 61 |
| 4 | 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. | 6.2 | 61 |
| 5 | Elaboration of Spin-Coated Cellulose-Xyloglucan Multilayered Thin Films. Langmuir, 2010, 26, 17248-17255. | 1.6 | 57 |
| 6 | Kinetic aspects of the adsorption of xyloglucan onto cellulose nanocrystals. Soft Matter, 2015, 11, 6472-6481. | 1.2 | 53 |
| 7 | Tuning supramolecular interactions of cellulose nanocrystals to design innovative functional materials. Industrial Crops and Products, 2016, 93, 96-107. | 2.5 | 53 |
| 8 | Tuning the Architecture of Cellulose Nanocrystalâ€“Poly(allylamine hydrochloride) Multilayered Thin Films: Influence of Dipping Parameters. Langmuir, 2012, 28, 10425-10436. | 1.6 | 44 |
| 9 | Xyloglucanâ€“Cellulose Nanocrystal Multilayered Films: Effect of Film Architecture on Enzymatic Hydrolysis. Biomacromolecules, 2013, 14, 3599-3609. | 2.6 | 41 |
| 10 | Coloured Semiâ€reflective Thin Films for Biomassâ€hydrolyzing Enzyme Detection. Advanced Materials, 2011, 23, 3791-3795. | 11.1 | 39 |
| 11 | Plant cell wall inspired xyloglucan/cellulose nanocrystals aerogels produced by freeze-casting. Carbohydrate Polymers, 2020, 247, 116642. | 5.1 | 38 |
| 12 | 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. | 5.1 | 36 |
| 13 | Exploring Architecture of Xyloglucan Cellulose Nanocrystal Complexes through Enzyme Susceptibility at Different Adsorption Regimes. Biomacromolecules, 2015, 16, 589-596. | 2.6 | 32 |
| 14 | Chitin Nanocrystal-Xyloglucan Multilayer Thin Films. Biomacromolecules, 2014, 15, 188-194. | 2.6 | 30 |
| 15 | Elaboration of multilayered thin films based on cellulose nanocrystals and cationic xylans: application to xylanase activity detection. Holzforschung, 2013, 67, 579-586. | 0.9 | 26 |
| 16 | Effect of xyloglucan molar mass on its assembly onto the cellulose surface and its enzymatic susceptibility. Carbohydrate Polymers, 2017, 157, 1105-1112. | 5.1 | 25 |
| 17 | Star-like Supramolecular Complexes of Reducing-End-Functionalized Cellulose Nanocrystals. ACS Omega, 2018, 3, 16203-16211. | 1.6 | 25 |
| 18 | Cellulose Nanofibril-Based Multilayered Thin Films: Effect of Ionic Strength on Porosity, Swelling, and Optical Properties. Langmuir, 2014, 30, 8091-8100. | 1.6 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Concentration driven cocrystallisation and percolation in all-cellulose nanocomposites. Cellulose, 2016, 23, 529-543. | 2.4 | 21 |
| 20 | 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. | 3.2 | 19 |
| 21 | Influence of cellulose nanocrystals concentration and ionic strength on the elaboration of cellulose nanocrystalsâ€"xyloglucan multilayered thin films. Journal of Colloid and Interface Science, 2015, 460, 214-220. | 5.0 | 17 |
| 22 | Relationship between Youngâ€™s Modulus and Film Architecture in Cellulose Nanofibril-Based Multilayered Thin Films. Langmuir, 2017, 33, 4138-4145. | 1.6 | 17 |
| 23 | Nano-structured cellulose nanocrystals-xyloglucan multilayered films for the detection of cellulase activity. European Physical Journal: Special Topics, 2012, 213, 291-294. | 1.2 | 15 |
| 24 | Xyloglucan Structure Impacts the Mechanical Properties of Xyloglucanâ€"Cellulose Nanocrystal Layered Filmsâ€"A Buckling-Based Study. Biomacromolecules, 2020, 21, 3898-3908. | 2.6 | 15 |
| 25 | Bioinspired Thermoresponsive Xyloglucanâ€"Cellulose Nanocrystal Hydrogels. Biomacromolecules, 2021, 22, 743-753. | 2.6 | 15 |
| 26 | Development of Bio-Inspired Hierarchical Fibres to Tailor the Fibre/Matrix Interphase in (Bio)composites. Polymers, 2021, 13, 804. | 2.0 | 15 |
| 27 | Arabinoxylan/Cellulose Nanocrystal Hydrogels with Tunable Mechanical Properties. Langmuir, 2019, 35, 13427-13434. | 1.6 | 14 |
| 28 | Influence of Xyloglucan Molar Mass on Rheological Properties of Cellulose Nanocrystal/Xyloglucan Hydrogels. Journal of Renewable Materials, 2019, 7, 1381-1390. | 1.1 | 14 |
| 29 | Elaboration of Cellulose Nanocrystal/Ge-Imogolite Nanotube Multilayered Thin Films. Langmuir, 2018, 34, 3386-3394. | 1.6 | 13 |
| 30 | Xyloglucan-cellulose nanocrystal-chitosan double network hydrogels for soft actuators. Carbohydrate Polymers, 2022, 293, 119753. | 5.1 | 13 |
| 31 | Asymmetric modification of cellulose nanocrystals with PAMAM dendrimers for the preparation of pH-responsive hairy surfaces. Carbohydrate Polymers, 2020, 249, 116779. | 5.1 | 12 |
| 32 | Hierarchical thermoplastic biocomposites reinforced with flax fibres modified by xyloglucan and cellulose nanocrystals. Carbohydrate Polymers, 2021, 254, 117403. | 5.1 | 11 |
| 33 | Cellulose Nanofibrils/Xyloglucan Bio-Based Aerogels with Shape Recovery. Gels, 2021, 7, 5. | 2.1 | 11 |
| 34 | Cellulose Nanocrystalâ€"Fibrin Nanocomposite Hydrogels Promoting Myotube Formation. Biomacromolecules, 2021, 22, 2740-2753. | 2.6 | 11 |
| 35 | 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. | 5.0 | 9 |
| 36 | Multicriteria Definition of Small-Scale Biorefineries Based on a Statistical Classification. Sustainability, 2021, 13, 7310. | 1.6 | 9 |

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|---|---|---|---|
| 37 | pH-Responsive Properties of Asymmetric Nanopapers of Nanofibrillated Cellulose. Nanomaterials, 2020, 10, 1380. | 1.9 | 7 |
| 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. | 6.2 | 7 |
| 39 | Dextran-based polyelectrolyte multilayers: Effect of charge density on film build-up and morphology. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112258. | 2.5 | 7 |
| 40 | Adsorption Behavior of Reducing End-Modified Cellulose Nanocrystals: A Kinetic Study Using Quartz Crystal Microbalance. Journal of Renewable Materials, 2020, 8, 29-43. | 1.1 | 5 |
| 41 | Bibliometric survey and network analysis of biomimetics and nature inspiration in engineering science. Bioinspiration and Biomimetics, 2022, 17, 031001. | 1.5 | 4 |
| 42 | Divergent growth of poly(amidoamine) dendrimer-like branched polymers at the reducing end of cellulose nanocrystals. Carbohydrate Polymers, 2022, 279, 119008. | 5.1 | 2 |
| 43 | Polymerization of coniferyl alcohol (monomer of lignins) at the air/water interface. Special Publication - Royal Society of Chemistry, 0, , 173-178. | 0.0 | 0 |