

# Bruno Jean

## 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.

48  
papers

1,950  
citations

22  
h-index

44  
g-index

49  
ext. papers

2,290  
ext. citations

7.1  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
48	Current characterization methods for cellulose nanomaterials. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2609-2679	38.5	436
47	Preparation by grafting onto, characterization, and properties of thermally responsive polymer-decorated cellulose nanocrystals. <i>Biomacromolecules</i> , <b>2010</b> , 11, 3652-9	6.9	192
46	Preparation, morphology and structure of cellulose nanocrystals from bamboo fibers. <i>Cellulose</i> , <b>2012</b> , 19, 1527-1536	5.5	141
45	Dynamically Controlled Iridescence of Cholesteric Cellulose Nanocrystal Suspensions Using Electric Fields. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606208	24	92
44	Non-electrostatic building of biomimetic cellulose-xyloglucan multilayers. <i>Langmuir</i> , <b>2009</b> , 25, 3920-3	4	89
43	Structural details of cellulose nanocrystals/polyelectrolytes multilayers probed by neutron reflectivity and AFM. <i>Langmuir</i> , <b>2008</b> , 24, 3452-8	4	86
42	Amorphous characteristics of an ultrathin cellulose film. <i>Biomacromolecules</i> , <b>2011</b> , 12, 770-7	6.9	83
41	Effects of Sodium Dodecyl Sulfate on the Adsorption of Poly(N-isopropylacrylamide) at the Air/Water Interface. <i>Langmuir</i> , <b>1999</b> , 15, 7585-7590	4	80
40	First experimental evidence of a giant permanent electric-dipole moment in cellulose nanocrystals. <i>Europhysics Letters</i> , <b>2014</b> , 107, 28006	1.6	71
39	Tunable Aggregation and Gelation of Thermoresponsive Suspensions of Polymer-Grafted Cellulose Nanocrystals. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2112-9	6.9	43
38	Xyloglucan-cellulose nanocrystal multilayered films: effect of film architecture on enzymatic hydrolysis. <i>Biomacromolecules</i> , <b>2013</b> , 14, 3599-609	6.9	40
37	Surface peeling of cellulose nanocrystals resulting from periodate oxidation and reductive amination with water-soluble polymers. <i>Cellulose</i> , <b>2015</b> , 22, 3701-3714	5.5	38
36	Self-assembly of amphiphilic glycoconjugates into lectin-adhesive nanoparticles. <i>Langmuir</i> , <b>2012</b> , 28, 1418-26	4	33
35	Coloured semi-reflective thin films for biomass-hydrolyzing enzyme detection. <i>Advanced Materials</i> , <b>2011</b> , 23, 3791-5	24	32
34	Nanocellulose/polymer multilayered thin films: tunable architectures towards tailored physical properties. <i>Nordic Pulp and Paper Research Journal</i> , <b>2014</b> , 29, 19-30	1.1	31
33	Adjustment of the Chiral Nematic Phase Properties of Cellulose Nanocrystals by Polymer Grafting. <i>Langmuir</i> , <b>2016</b> , 32, 4305-12	4	30
32	SANS measurements of semiflexible xyloglucan polysaccharide chains in water reveal their self-avoiding statistics. <i>Biomacromolecules</i> , <b>2011</b> , 12, 3330-6	6.9	28

31	pH-Sensitive Interactions between Cellulose Nanocrystals and DOPC Liposomes. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2918-2927	6.9	27
30	Ice-templated freeze-dried cryogels from tunicate cellulose nanocrystals with high specific surface area and anisotropic morphological and mechanical properties. <i>Cellulose</i> , <b>2020</b> , 27, 233-247	5.5	27
29	Impact of sonication on the rheological and colloidal properties of highly concentrated cellulose nanocrystal suspensions. <i>Cellulose</i> , <b>2019</b> , 26, 7619-7634	5.5	26
28	Temperature-Controlled Star-Shaped Cellulose Nanocrystal Assemblies Resulting from Asymmetric Polymer Grafting. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 345-351	6.6	25
27	Highly absorbent cellulose nanofibrils aerogels prepared by supercritical drying. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115560	10.3	24
26	Periodate Oxidation Followed by NaBH Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , <b>2018</b> , 34, 11066-11075	4	22
25	Self-assembled carbohydrate-based micelles for lectin targeting. <i>Soft Matter</i> , <b>2011</b> , 7, 3453	3.6	22
24	Foam films from thermosensitive PNIPAM and SDS solutions. <i>Langmuir</i> , <b>2009</b> , 25, 3966-71	4	19
23	Antimicrobial Cellulose Nanofibril Porous Materials Obtained by Supercritical Impregnation of Thymol.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2965-2975	4.1	18
22	Adsorption versus grafting of poly(N-Isopropylacrylamide) in aqueous conditions on the surface of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2019</b> , 210, 100-109	10.3	18
21	Tailoring Rheological Properties of Thermo-responsive Hydrogels through Block Copolymer Adsorption to Cellulose Nanocrystals. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2545-2556	6.9	16
20	Influence of cellulose nanocrystals concentration and ionic strength on the elaboration of cellulose nanocrystals-xyloglucan multilayered thin films. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 460, 214-220	8.3	16
19	Noninteracting versus interacting poly(N-isopropylacrylamide)-surfactant mixtures at the air-water interface. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5162-7	3.4	15
18	Microphase separation of cationic poly(N-isopropylacrylamide) copolymers in water: Effect of the migration of charges. <i>Colloid and Polymer Science</i> , <b>2002</b> , 280, 908-914	2.4	12
17	Breakdown and buildup mechanisms of cellulose nanocrystal suspensions under shear and upon relaxation probed by SAXS and SALS. <i>Carbohydrate Polymers</i> , <b>2021</b> , 260, 117751	10.3	12
16	Ultrastructural Characterization of the Core-shell Structure of a Wide Range of Periodate-Oxidized Cellulose from Different Native Sources by Solid-State <sup>13</sup> C CP-MAS NMR. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 412-420	8.3	12
15	Structural Variations in Hybrid All-Nanoparticle Gibbsite Nanoplatelet/Cellulose Nanocrystal Multilayered Films. <i>Langmuir</i> , <b>2017</b> , 33, 7896-7907	4	10
14	Optimized reducing-end labeling of cellulose nanocrystals: Implication for the structure of microfibril bundles in plant cell walls. <i>Carbohydrate Polymers</i> , <b>2021</b> , 257, 117618	10.3	9

13	Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100602	5.4	9
12	Mechanism of Associations of Neutral Semiflexible Biopolymers in Water: The Xyloglucan Case Reveals Inherent Links. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 2312-2323	2.6	8
11	Effects of sodium dodecyl sulfate on poly(N-isopropylacrylamide) adsorption at the air/water interface above the lower critical solubility temperature. <i>Colloid and Polymer Science</i> , <b>2002</b> , 280, 689-694	2.4	8
10	Nanochannels in track-etched membranes. <i>Journal of Applied Crystallography</i> , <b>2003</b> , 36, 649-651	3.8	8
9	Separation of Cellulose Nanocrystals. <i>Materials and Energy</i> , <b>2014</b> , 73-87		7
8	Small-Angle Neutron Scattering Reveals the Structural Details of Thermosensitive Polymer-Grafted Cellulose Nanocrystal Suspensions. <i>Langmuir</i> , <b>2020</b> , 36, 8511-8519	4	6
7	Multifunctionalization of cellulose microfibrils through a cascade pathway entailing the sustainable Passerini multi-component reaction. <i>Green Chemistry</i> , <b>2020</b> , 22, 7059-7069	10	5
6	Layered organization of anisometric cellulose nanocrystals and beidellite clay particles accumulated near the membrane surface during cross-flow ultrafiltration: In situ SAXS and ex situ SEM/WAXD characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 584, 124030	5.1	5
5	Temperature-triggered formation of a cellulose II nanocrystal network through regioselective derivatization. <i>Nanoscale</i> , <b>2021</b> , 13, 6447-6460	7.7	5
4	Antibacterial Cellulose Nanopapers via Aminosilane Grafting in Supercritical Carbon Dioxide.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8402-8413	4.1	4
3	Hybrid Gibbsite Nanoplatelet/Cellulose Nanocrystal Multilayered Coatings for Oxygen Barrier Improvement. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 507	5	4
2	Investigation of perfluorosulfonic acid ionomer solutions by <sup>19</sup> F NMR and DLS: Establishment of an accurate quantification protocol. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 2210-2222	2.6	3
1	Deposition of Cellulose Nanocrystals onto Supported Lipid Membranes. <i>Langmuir</i> , <b>2020</b> , 36, 1474-1483	4	2