Bruno Jean

List of Publications by Year in Descending Order

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	Optimized reducing-end labeling of cellulose nanocrystals: Implication for the structure of microfibril bundles in plant cell walls. *Carbohydrate Polymers*, **2021**, 257, 117618	10.3	9
47	Breakdown and buildup mechanisms of cellulose nanocrystal suspensions under shear and upon relaxation probed by SAXS and SALS. *Carbohydrate Polymers*, **2021**, 260, 117751	10.3	12
46	Biophysical analysis of the plant-specific GIPC sphingolipids reveals multiple modes of membrane regulation. *Journal of Biological Chemistry*, **2021**, 296, 100602	5.4	9
45	Temperature-triggered formation of a cellulose II nanocrystal network through regioselective derivatization. *Nanoscale*, **2021**, 13, 6447-6460	7.7	5
44	Antibacterial Cellulose Nanopapers via Aminosilane Grafting in Supercritical Carbon Dioxide.. *ACS Applied Bio Materials*, **2020**, 3, 8402-8413	4.1	4
43	Antimicrobial Cellulose Nanofibril Porous Materials Obtained by Supercritical Impregnation of Thymol.. *ACS Applied Bio Materials*, **2020**, 3, 2965-2975	4.1	18
42	Small-Angle Neutron Scattering Reveals the Structural Details of Thermosensitive Polymer-Grafted Cellulose Nanocrystal Suspensions. *Langmuir*, **2020**, 36, 8511-8519	4	6
41	Deposition of Cellulose Nanocrystals onto Supported Lipid Membranes. *Langmuir*, **2020**, 36, 1474-1483	4	2
40	Highly absorbent cellulose nanofibrils aerogels prepared by supercritical drying. *Carbohydrate Polymers*, **2020**, 229, 115560	10.3	24
39	Multifunctionalization of cellulose microfibrils through a cascade pathway entailing the sustainable Passerini multi-component reaction. *Green Chemistry*, **2020**, 22, 7059-7069	10	5
38	Ice-templated freeze-dried cryogels from tunicate cellulose nanocrystals with high specific surface area and anisotropic morphological and mechanical properties. *Cellulose*, **2020**, 27, 233-247	5.5	27
37	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. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 584, 124030	5.1	5
36	Tailoring Rheological Properties of Thermoresponsive Hydrogels through Block Copolymer Adsorption to Cellulose Nanocrystals. *Biomacromolecules*, **2019**, 20, 2545-2556	6.9	16
35	Temperature-Controlled Star-Shaped Cellulose Nanocrystal Assemblies Resulting from Asymmetric Polymer Grafting. *ACS Macro Letters*, **2019**, 8, 345-351	6.6	25
34	Impact of sonication on the rheological and colloidal properties of highly concentrated cellulose nanocrystal suspensions. *Cellulose*, **2019**, 26, 7619-7634	5.5	26
33	Hybrid Gibbsite Nanoplatelet/Cellulose Nanocrystal Multilayered Coatings for Oxygen Barrier Improvement. *Frontiers in Chemistry*, **2019**, 7, 507	5	4
32	Ultrastructural Characterization of the Core–Shell Structure of a Wide Range of Periodate-Oxidized Cellulose from Different Native Sources by Solid-State 13C CP-MAS NMR. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 412-420	8.3	12

31	Adsorption versus grafting of poly(N-Isopropylacrylamide) in aqueous conditions on the surface of cellulose nanocrystals. *Carbohydrate Polymers*, **2019**, 210, 100-109	10.3	18
30	Current characterization methods for cellulose nanomaterials. *Chemical Society Reviews*, **2018**, 47, 2609-2679	38.5	436
29	Periodate Oxidation Followed by NaBH Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions. *Langmuir*, **2018**, 34, 11066-11075	4	22
28	Dynamically Controlled Iridescence of Cholesteric Cellulose Nanocrystal Suspensions Using Electric Fields. *Advanced Materials*, **2017**, 29, 1606208	24	92
27	Structural Variations in Hybrid All-Nanoparticle Gibbsite Nanoplatelet/Cellulose Nanocrystal Multilayered Films. *Langmuir*, **2017**, 33, 7896-7907	4	10
26	pH-Sensitive Interactions between Cellulose Nanocrystals and DOPC Liposomes. *Biomacromolecules*, **2017**, 18, 2918-2927	6.9	27
25	Adjustment of the Chiral Nematic Phase Properties of Cellulose Nanocrystals by Polymer Grafting. *Langmuir*, **2016**, 32, 4305-12	4	30
24	Tunable Aggregation and Gelation of Thermoresponsive Suspensions of Polymer-Grafted Cellulose Nanocrystals. *Biomacromolecules*, **2016**, 17, 2112-9	6.9	43
23	Investigation of perfluorosulfonic acid ionomer solutions by 19f NMR and DLS: Establishment of an accurate quantification protocol. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 2210-2222	2.6	3
22	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
21	Surface peeling of cellulose nanocrystals resulting from periodate oxidation and reductive amination with water-soluble polymers. *Cellulose*, **2015**, 22, 3701-3714	5.5	38
20	Nanocellulose/polymer multilayered thin films: tunable architectures towards tailored physical properties. *Nordic Pulp and Paper Research Journal*, **2014**, 29, 19-30	1.1	31
19	Separation of Cellulose Nanocrystals. *Materials and Energy*, **2014**, 73-87		7
18	First experimental evidence of a giant permanent electric-dipole moment in cellulose nanocrystals. *Europhysics Letters*, **2014**, 107, 28006	1.6	71
17	Xyloglucan-cellulose nanocrystal multilayered films: effect of film architecture on enzymatic hydrolysis. *Biomacromolecules*, **2013**, 14, 3599-609	6.9	40
16	Mechanism of Associations of Neutral Semiflexible Biopolymers in Water: The Xyloglucan Case Reveals Inherent Links. *Macromolecular Chemistry and Physics*, **2013**, 214, 2312-2323	2.6	8
15	Preparation, morphology and structure of cellulose nanocrystals from bamboo fibers. *Cellulose*, **2012**, 19, 1527-1536	5.5	141
14	Self-assembly of amphiphilic glycoconjugates into lectin-adhesive nanoparticles. *Langmuir*, **2012**, 28, 1418-26	4	33

13	SANS measurements of semiflexible xyloglucan polysaccharide chains in water reveal their self-avoiding statistics. *Biomacromolecules*, **2011**, 12, 3330-6	6.9	28
12	Self-assembled carbohydrate-based micelles for lectin targeting. *Soft Matter*, **2011**, 7, 3453	3.6	22
11	Amorphous characteristics of an ultrathin cellulose film. *Biomacromolecules*, **2011**, 12, 770-7	6.9	83
10	Coloured semi-reflective thin films for biomass-hydrolyzing enzyme detection. *Advanced Materials*, **2011**, 23, 3791-5	24	32
9	Preparation by grafting onto, characterization, and properties of thermally responsive polymer-decorated cellulose nanocrystals. *Biomacromolecules*, **2010**, 11, 3652-9	6.9	192
8	Non-electrostatic building of biomimetic cellulose-xyloglucan multilayers. *Langmuir*, **2009**, 25, 3920-3	4	89
7	Foam films from thermosensitive PNIPAM and SDS solutions. *Langmuir*, **2009**, 25, 3966-71	4	19
6	Structural details of cellulose nanocrystals/polyelectrolytes multilayers probed by neutron reflectivity and AFM. *Langmuir*, **2008**, 24, 3452-8	4	86
5	Noninteracting versus interacting poly(N-isopropylacrylamide)-surfactant mixtures at the air-water interface. *Journal of Physical Chemistry B*, **2005**, 109, 5162-7	3.4	15
4	Nanochannels in track-etched membranes. *Journal of Applied Crystallography*, **2003**, 36, 649-651	3.8	8
3	Effects of sodium dodecyl sulfate on poly(N-isopropylacrylamide) adsorption at the air–water interface above the lower critical solubility temperature. *Colloid and Polymer Science*, **2002**, 280, 689-694	2.4	8
2	Microphase separation of cationic poly(N-isopropylacrylamide) copolymers in water: Effect of the migration of charges. *Colloid and Polymer Science*, **2002**, 280, 908-914	2.4	12
1	Effects of Sodium Dodecyl Sulfate on the Adsorption of Poly(N-isopropylacrylamide) at the Air–Water Interface. *Langmuir*, **1999**, 15, 7585-7590	4	80