

# Alain Dufresne

## 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.

374  
papers

44,170  
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383  
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48,665  
ext. citations

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#	Paper	IF	Citations
374	Review of recent research into cellulosic whiskers, their properties and their application in nanocomposite field. <i>Biomacromolecules</i> , <b>2005</b> , 6, 612-26	6.9	1853
373	Review: current international research into cellulose nanofibres and nanocomposites. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1-33	4.3	1760
372	Review on nanoparticles and nanostructured materials: history, sources, toxicity and regulations. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1050-1074	3	1401
371	Microfibrillated cellulose - its barrier properties and applications in cellulosic materials: a review. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 735-64	10.3	1153
370	Nanocellulose in biomedicine: Current status and future prospect. <i>European Polymer Journal</i> , <b>2014</b> , 59, 302-325	5.2	1013
369	Nanocellulose: a new ageless bionanomaterial. <i>Materials Today</i> , <b>2013</b> , 16, 220-227	21.8	955
368	Cellulosic Bionanocomposites: A Review of Preparation, Properties and Applications. <i>Polymers</i> , <b>2010</b> , 2, 728-765	4.5	922
367	Extraction, preparation and characterization of cellulose fibres and nanocrystals from rice husk. <i>Industrial Crops and Products</i> , <b>2012</b> , 37, 93-99	5.9	805
366	Starch nanoparticles: a review. <i>Biomacromolecules</i> , <b>2010</b> , 11, 1139-53	6.9	714
365	Preparation, properties and applications of polysaccharide nanocrystals in advanced functional nanomaterials: a review. <i>Nanoscale</i> , <b>2012</b> , 4, 3274-94	7.7	667
364	Review: Current international research into cellulosic fibres and composites. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 2107-2131	4.3	665
363	Cellulose whiskers versus microfibrils: influence of the nature of the nanoparticle and its surface functionalization on the thermal and mechanical properties of nanocomposites. <i>Biomacromolecules</i> , <b>2009</b> , 10, 425-32	6.9	656
362	Plasticized Starch/Tunicin Whiskers Nanocomposites. 1. Structural Analysis. <i>Macromolecules</i> , <b>2000</b> , 33, 8344-8353	5.5	563
361	Cellulose nanocrystals and related nanocomposites: Review of some properties and challenges. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 791-806	2.6	552
360	Effects of hydrolysis conditions on the morphology, crystallinity, and thermal stability of cellulose nanocrystals extracted from kenaf bast fibers. <i>Cellulose</i> , <b>2012</b> , 19, 855-866	5.5	538
359	Bionanocomposites based on poly( $\epsilon$ -caprolactone)-grafted cellulose nanocrystals by ring-opening polymerization. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5002		525
358	Different preparation methods and properties of nanostructured cellulose from various natural resources and residues: a review. <i>Cellulose</i> , <b>2015</b> , 22, 935-969	5.5	493

357	Short natural-fibre reinforced polyethylene and natural rubber composites: Effect of silane coupling agents and fibres loading. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1627-1639	8.6	477
356	Nanocomposite materials from latex and cellulose whiskers. <i>Polymers for Advanced Technologies</i> , <b>1995</b> , 6, 351-355	3.2	442
355	Crab shell chitin whisker reinforced natural rubber nanocomposites. 1. Processing and swelling behavior. <i>Biomacromolecules</i> , <b>2003</b> , 4, 657-65	6.9	434
354	Extrusion and characterization of functionalized cellulose whiskers reinforced polyethylene nanocomposites. <i>Polymer</i> , <b>2009</b> , 50, 4552-4563	3.9	431
353	Sisal cellulose whiskers reinforced polyvinyl acetate nanocomposites. <i>Cellulose</i> , <b>2006</b> , 13, 261-270	5.5	426
352	Cellulose microfibrils from potato tuber cells: Processing and characterization of starch-cellulose microfibril composites. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 76, 2080-2092	2.9	416
351	Cellulose whiskers reinforced polyvinyl alcohol copolymers nanocomposites. <i>European Polymer Journal</i> , <b>2008</b> , 44, 2489-2498	5.2	401
350	Plasticized Starch/Tunicin Whiskers Nanocomposite Materials. 2. Mechanical Behavior. <i>Macromolecules</i> , <b>2001</b> , 34, 2921-2931	5.5	386
349	Cellulose-Based Bio- and Nanocomposites: A Review. <i>International Journal of Polymer Science</i> , <b>2011</b> , 2011, 1-35	2.4	367
348	Thermoplastic nanocomposites filled with wheat straw cellulose whiskers. Part I: Processing and mechanical behavior. <i>Polymer Composites</i> , <b>1996</b> , 17, 604-611	3	360
347	Morphological investigation of nanocomposites from sorbitol plasticized starch and tunicin whiskers. <i>Biomacromolecules</i> , <b>2002</b> , 3, 609-17	6.9	355
346	Optimization of the preparation of aqueous suspensions of waxy maize starch nanocrystals using a response surface methodology. <i>Biomacromolecules</i> , <b>2004</b> , 5, 1545-51	6.9	349
345	Recent developments on nanocellulose reinforced polymer nanocomposites: A review. <i>Polymer</i> , <b>2017</b> , 132, 368-393	3.9	346
344	Improvement of Starch Film Performances Using Cellulose Microfibrils. <i>Macromolecules</i> , <b>1998</b> , 31, 2693-2696	3.9	346
343	Surface chemistry, morphological analysis and properties of cellulose nanocrystals with gradiented sulfation degrees. <i>Nanoscale</i> , <b>2014</b> , 6, 5384-93	7.7	332
342	Mechanical behavior of sheets prepared from sugar beet cellulose microfibrils. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 1185-1194	2.9	332
341	Cellulose nanocrystals reinforced poly(oxyethylene). <i>Polymer</i> , <b>2004</b> , 45, 4149-4157	3.9	327
340	From interfacial ring-opening polymerization to melt processing of cellulose nanowhisiker-filled polylactide-based nanocomposites. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2456-65	6.9	316

- 339 Cassava bagasse cellulose nanofibrils reinforced thermoplastic cassava starch. *Carbohydrate Polymers*, **2009**, 78, 422-431 10.3 315
- 338 Extraction of cellulose nanocrystals from mengkuang leaves (*Pandanus tectorius*). *Carbohydrate Polymers*, **2012**, 88, 772-779 10.3 309
- 337 Highly filled bionanocomposites from functionalized polysaccharide nanocrystals. *Biomacromolecules*, **2008**, 9, 1974-80 6.9 304
- 336 Preparation of Cellulose Whiskers Reinforced Nanocomposites from an Organic Medium Suspension. *Macromolecules*, **2004**, 37, 1386-1393 5.5 300
- 335 New process of chemical grafting of cellulose nanoparticles with a long chain isocyanate. *Langmuir*, **2010**, 26, 402-11 4 291
- 334 Nanocellulose **2012**, 287
- 333 Thermoplastic starch-waxy maize starch nanocrystals nanocomposites. *Biomacromolecules*, **2006**, 7, 531-8.9 285
- 332 Mechanical, barrier, and biodegradability properties of bagasse cellulose whiskers reinforced natural rubber nanocomposites. *Industrial Crops and Products*, **2010**, 32, 627-633 5.9 280
- 331 Tangling Effect in Fibrillated Cellulose Reinforced Nanocomposites. *Macromolecules*, **2004**, 37, 4313-4315.5 267
- 330 Water sorption behavior and gas barrier properties of cellulose whiskers and microfibrils films. *Carbohydrate Polymers*, **2011**, 83, 1740-1748 10.3 266
- 329 Polysaccharide nano crystal reinforced nanocomposites. *Canadian Journal of Chemistry*, **2008**, 86, 484-494.9 266
- 328 Platelet nanocrystals resulting from the disruption of waxy maize starch granules by acid hydrolysis. *Biomacromolecules*, **2003**, 4, 1198-202 6.9 262
- 327 Chitin Whisker Reinforced Thermoplastic Nanocomposites. *Macromolecules*, **2001**, 34, 6527-6530 5.5 259
- 326 Nanocomposites of Chitin Whiskers from *Riftia* Tubes and Poly(caprolactone). *Macromolecules*, **2002**, 35, 2190-2199 5.5 250
- 325 Recent developments in nanocellulose-based biodegradable polymers, thermoplastic polymers, and porous nanocomposites. *Progress in Polymer Science*, **2018**, 87, 197-227 29.6 249
- 324 Crab shell chitin whiskers reinforced natural rubber nanocomposites. 3. Effect of chemical modification of chitin whiskers. *Biomacromolecules*, **2003**, 4, 1835-42 6.9 247
- 323 Polysaccharide Microcrystals Reinforced Amorphous Poly(Ehydroxyoctanoate) Nanocomposite Materials. *Macromolecules*, **1999**, 32, 5765-5771 5.5 243
- 322 Plasticized waxy maize starch: effect of polyols and relative humidity on material properties. *Biomacromolecules*, **2002**, 3, 1101-8 6.9 242

321	Simple Method for the Melt Extrusion of a Cellulose Nanocrystal Reinforced Hydrophobic Polymer.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 236-240	6.6	226
320	Transcrystallization in Mcl-PHAs/Cellulose Whiskers Composites. <i>Macromolecules</i> , <b>1999</b> , 32, 7396-7401	5.5	226
319	TEMPO-oxidized nanocellulose participating as crosslinking aid for alginate-based sponges. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4948-59	9.5	225
318	Advances in cellulose nanomaterials. <i>Cellulose</i> , <b>2018</b> , 25, 2151-2189	5.5	221
317	Processing of polymer nanocomposites reinforced with polysaccharide nanocrystals. <i>Molecules</i> , <b>2010</b> , 15, 4111-28	4.8	214
316	Cellulose nanomaterial reinforced polymer nanocomposites. <i>Current Opinion in Colloid and Interface Science</i> , <b>2017</b> , 29, 1-8	7.6	211
315	Mechanical Properties of Waxy Maize Starch Nanocrystal Reinforced Natural Rubber. <i>Macromolecules</i> , <b>2005</b> , 38, 9161-9170	5.5	210
314	Investigation on the effect of cellulosic nanoparticles morphology on the properties of natural rubber based nanocomposites. <i>European Polymer Journal</i> , <b>2010</b> , 46, 609-620	5.2	201
313	Crab shell chitin whisker reinforced natural rubber nanocomposites. 2. Mechanical behavior. <i>Biomacromolecules</i> , <b>2003</b> , 4, 666-74	6.9	199
312	Processing and characterization of reinforced polyethylene composites made with lignocellulosic fibers from Egyptian agro-industrial residues. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1877-1885	8.6	198
311	Processing and Structural Properties of Waxy Maize Starch Nanocrystals Reinforced Natural Rubber. <i>Macromolecules</i> , <b>2005</b> , 38, 3783-3792	5.5	196
310	Physico-Mechanical Properties of Biodegradable Starch Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 169-177	3.9	185
309	Starch nanocrystals with large chain surface modifications. <i>Langmuir</i> , <b>2006</b> , 22, 4804-10	4	185
308	Poly( $\epsilon$ -caprolactone) based nanocomposites reinforced by surface-grafted cellulose nanowhiskers via extrusion processing: Morphology, rheology, and thermo-mechanical properties. <i>Polymer</i> , <b>2011</b> , 52, 1532-1538	3.9	183
307	Comparing the mechanical properties of high performances polymer nanocomposites from biological sources. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 322-30	1.3	183
306	Effects of polymer-grafted natural nanocrystals on the structure and mechanical properties of poly(lactic acid): A case of cellulose whisker-graft-polycaprolactone. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 3417-3425	2.9	181
305	Development of wheat gluten/nanocellulose/titanium dioxide nanocomposites for active food packaging. <i>Carbohydrate Polymers</i> , <b>2015</b> , 124, 337-46	10.3	180
304	Supramolecular hydrogels from in situ host-guest inclusion between chemically modified cellulose nanocrystals and cyclodextrin. <i>Biomacromolecules</i> , <b>2013</b> , 14, 871-80	6.9	173

303	Physical and/or Chemical Compatibilization of Extruded Cellulose Nanocrystal Reinforced Polystyrene Nanocomposites. <i>Macromolecules</i> , <b>2013</b> , 46, 5570-5583	5.5	168
302	Processing and characterization of carbon nanotube/poly(styrene-co-butyl acrylate) nanocomposites. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 3915-3923	4.3	167
301	Influence of chemical surface modification of cellulose nanowhiskers on thermal, mechanical, and barrier properties of poly(lactide) based bionanocomposites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 3144-3154	5.2	165
300	Effect of glycerol on the morphology of nanocomposites made from thermoplastic starch and starch nanocrystals. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 203-210	10.3	165
299	High reinforcing capability cellulose nanocrystals extracted from <i>Syngonanthus nitens</i> (Capim Dourado). <i>Cellulose</i> , <b>2010</b> , 17, 289-298	5.5	164
298	Characterization of a novel natural cellulosic fiber from <i>Juncus effusus</i> L. <i>Carbohydrate Polymers</i> , <b>2017</b> , 171, 163-172	10.3	163
297	Polyelectrolyte films based on chitosan/olive oil and reinforced with cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 1018-26	10.3	163
296	Enhancement of Egyptian soft white cheese shelf life using a novel chitosan/carboxymethyl cellulose/zinc oxide bionanocomposite film. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 9-19	10.3	158
295	Morphological investigation of nanoparticles obtained from combined mechanical shearing, and enzymatic and acid hydrolysis of sisal fibers. <i>Cellulose</i> , <b>2010</b> , 17, 1147-1158	5.5	157
294	Nanocomposite Polymer Electrolytes Based on Poly(oxyethylene) and Cellulose Nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 10845-10852	3.4	156
293	Nanocellulose nanocomposite hydrogels: technological and environmental issues. <i>Green Chemistry</i> , <b>2018</b> , 20, 2428-2448	10	155
292	Thermoplastic nanocomposites filled with wheat straw cellulose whiskers. Part II: Effect of processing and modeling. <i>Polymer Composites</i> , <b>1997</b> , 18, 198-210	3	154
291	Surface chemical modification of waxy maize starch nanocrystals. <i>Langmuir</i> , <b>2005</b> , 21, 2425-33	4	154
290	Extraction of cellulose whiskers from cassava bagasse and their applications as reinforcing agent in natural rubber. <i>Industrial Crops and Products</i> , <b>2010</b> , 32, 486-490	5.9	152
289	Modification of cellulose fibers with functionalized silanes: Effect of the fiber treatment on the mechanical performances of cellulose/thermoset composites. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 974-984	2.9	152
288	New Nanocomposite Materials: Microcrystalline Starch Reinforced Thermoplastic. <i>Macromolecules</i> , <b>1996</b> , 29, 7624-7626	5.5	151
287	Processing and characterization of new thermoset nanocomposites based on cellulose whiskers. <i>Composite Interfaces</i> , <b>2000</b> , 7, 117-131	2.3	148
286	Kenaf bast cellulosic fibers hierarchy: a comprehensive approach from micro to nano. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 878-85	10.3	147

285	Current State and New Trends in the Use of Cellulose Nanomaterials for Wastewater Treatment. <i>Biomacromolecules</i> , <b>2019</b> , 20, 573-597	6.9	146
284	Polymer grafting onto starch nanocrystals. <i>Biomacromolecules</i> , <b>2007</b> , 8, 2916-27	6.9	144
283	Cellulose nanocrystal: A promising toughening agent for unsaturated polyester nanocomposite. <i>Polymer</i> , <b>2015</b> , 56, 346-357	3.9	138
282	Biocompatible Double-Membrane Hydrogels from Cationic Cellulose Nanocrystals and Anionic Alginate as Complexing Drugs Codelivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6880-9	9.5	138
281	Cross-Linked Nanocomposite Polymer Electrolytes Reinforced with Cellulose Whiskers. <i>Macromolecules</i> , <b>2004</b> , 37, 4839-4844	5.5	138
280	Simultaneous reinforcing and toughening: New nanocomposites of waterborne polyurethane filled with low loading level of starch nanocrystals. <i>Polymer</i> , <b>2008</b> , 49, 1860-1870	3.9	136
279	Shear-Induced Orientation Phenomena in Suspensions of Cellulose Microcrystals, Revealed by Small Angle X-ray Scattering. <i>Langmuir</i> , <b>1999</b> , 15, 6123-6126	4	132
278	Control of size and viscoelastic properties of nanofibrillated cellulose from palm tree by varying the TEMPO-mediated oxidation time. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 74-83	10.3	127
277	Thermoplastic nanocomposites based on cellulose microfibrils from <i>Opuntia ficus-indica</i> parenchyma cell. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 1520-1526	8.6	126
276	Mechanical properties of natural rubber nanocomposites reinforced with high aspect ratio cellulose nanocrystals isolated from soy hulls. <i>Carbohydrate Polymers</i> , <b>2016</b> , 153, 143-152	10.3	125
275	Physico-Chemical Characterization of Palm from <i>Phoenix Dactylifera</i> , Preparation of Cellulose Whiskers and Natural Rubber Based Nanocomposites. <i>Journal of Biobased Materials and Bioenergy</i> , <b>2009</b> , 3, 81-90	1.4	124
274	Banana fibers and microfibrils as lignocellulosic reinforcements in polymer composites. <i>Carbohydrate Polymers</i> , <b>2010</b> , 81, 811-819	10.3	119
273	Structure and properties of starch nanocrystal-reinforced soy protein plastics. <i>Polymer Composites</i> , <b>2009</b> , 30, 474-480	3	116
272	Correlation between stiffness of sheets prepared from cellulose whiskers and nanoparticles dimensions. <i>Carbohydrate Polymers</i> , <b>2011</b> , 84, 211-215	10.3	116
271	Nanofibers for Biomedical and Healthcare Applications. <i>Macromolecular Bioscience</i> , <b>2019</b> , 19, e1800256	5.5	115
270	Thermal and mechanical properties of bio-nanocomposites reinforced by <i>Luffa cylindrica</i> cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2013</b> , 91, 711-7	10.3	115
269	Water transport properties of bio-nanocomposites reinforced by <i>Luffa cylindrica</i> cellulose nanocrystals. <i>Journal of Membrane Science</i> , <b>2013</b> , 427, 218-229	9.6	110
268	Surface esterification of cellulose fibres: Processing and characterisation of low-density polyethylene/cellulose fibres composites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 193-201	8.6	110

267	Influence of native starch's properties on starch nanocrystals thermal properties. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 658-666	10.3	109
266	Bio-based polyurethane reinforced with cellulose nanofibers: a comprehensive investigation on the effect of interface. <i>Carbohydrate Polymers</i> , <b>2015</b> , 122, 202-11	10.3	105
265	Structure and Mechanical Properties of Poly(lactic acid) Filled with (Starch nanocrystal)-graft-poly( $\epsilon$ -caprolactone). <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 763-770	3.9	105
264	Short palm tree fibers $\square$ Thermoset matrices composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2006</b> , 37, 1413-1422	8.4	105
263	Dynamic mechanical analysis of the interphase in bacterial polyester/cellulose whiskers natural composites. <i>Composite Interfaces</i> , <b>2000</b> , 7, 53-67	2.3	105
262	How do cellulose nanocrystals affect the overall properties of biodegradable polymer nanocomposites: A comprehensive review. <i>European Polymer Journal</i> , <b>2018</b> , 108, 274-285	5.2	104
261	Influence of botanic origin and amylose content on the morphology of starch nanocrystals. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 7193-7208	2.3	103
260	Biomimetic Mineralization of Three-Dimensional Printed Alginate/TEMPO-Oxidized Cellulose Nanofibril Scaffolds for Bone Tissue Engineering. <i>Biomacromolecules</i> , <b>2018</b> , 19, 4442-4452	6.9	103
259	Structure and morphology of cladodes and spines of <i>Opuntia ficus-indica</i> . Cellulose extraction and characterisation. <i>Carbohydrate Polymers</i> , <b>2003</b> , 51, 77-83	10.3	102
258	New waterborne epoxy coatings based on cellulose nanofillers. <i>Macromolecular Symposia</i> , <b>2001</b> , 169, 211-222	0.8	102
257	PLA/PBAT Bionanocomposites with Antimicrobial Natural Rosin for Green Packaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20132-20141	9.5	101
256	Effect of cationic and anionic surfactants on the application of calcium carbonate nanoparticles in paper coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2734-44	9.5	101
255	Isolation and structural characterization of hemicelluloses from palm of <i>Phoenix dactylifera</i> L.. <i>Carbohydrate Polymers</i> , <b>2007</b> , 68, 601-608	10.3	101
254	Mechanical properties of nanocomposites from sorbitol plasticized starch and tunicin whiskers. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 4065-4074	2.9	101
253	Lignocellulosic flour-reinforced poly(hydroxybutyrate-co-valerate) composites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 1302-1315	2.9	100
252	Review of recent research on flexible multifunctional nanopapers. <i>Nanoscale</i> , <b>2017</b> , 9, 15181-15205	7.7	99
251	Enzymatic pretreatment for preparing starch nanocrystals. <i>Biomacromolecules</i> , <b>2012</b> , 13, 132-7	6.9	99
250	Potential of using multiscale kenaf fibers as reinforcing filler in cassava starch-kenaf biocomposites. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 2299-305	10.3	98



249	Mechanical properties of natural rubber nanocomposites reinforced with cellulosic nanoparticles obtained from combined mechanical shearing, and enzymatic and acid hydrolysis of sisal fibers. <i>Cellulose</i> , <b>2011</b> , 18, 57-65	5.5	98
248	Processing and characterization of waxy maize starch films plasticized by sorbitol and reinforced with starch nanocrystals. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 1206-16	5.5	97
247	Evaluation of bionanocomposites as packaging material on properties of soft white cheese during storage period. <i>Carbohydrate Polymers</i> , <b>2015</b> , 132, 274-85	10.3	95
246	Cellulose nanocrystal reinforced oxidized natural rubber nanocomposites. <i>Carbohydrate Polymers</i> , <b>2016</b> , 137, 174-183	10.3	95
245	Obtaining nanofibers from curau and sugarcane bagasse fibers using enzymatic hydrolysis followed by sonication. <i>Cellulose</i> , <b>2013</b> , 20, 1491-1500	5.5	95
244	A new quality index for benchmarking of different cellulose nanofibrils. <i>Carbohydrate Polymers</i> , <b>2017</b> , 174, 318-329	10.3	94
243	Highly Conducting and Solution-Processable Polyaniline Obtained via Protonation with a New Sulfonic Acid Containing Plasticizing Functional Groups. <i>Macromolecules</i> , <b>2000</b> , 33, 2107-2113	5.5	94
242	A Novel Thermoformable Bionanocomposite Based on Cellulose Nanocrystal-graft-Poly(E-caprolactone). <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 59-67	3.9	93
241	A comparison between the physico-chemical properties of tuber and cereal starches. <i>Food Research International</i> , <b>2009</b> , 42, 976-982	7	93
240	Mechanical and thermal properties of Posidonia oceanica cellulose nanocrystal reinforced polymer. <i>Carbohydrate Polymers</i> , <b>2015</b> , 123, 99-104	10.3	88
239	Clustering and percolation effects in microcrystalline starch-reinforced thermoplastic. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1998</b> , 36, 2211-2224	2.6	88
238	Nanocellulose <b>2017</b> ,		88
237	Extrusion of polysaccharide nanocrystal reinforced polymer nanocomposites through compatibilization with poly(ethylene oxide). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9365-75	9.5	87
236	Review: nanoparticles and nanostructured materials in papermaking. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 146-184	4.3	84
235	Starch Nanocrystal Fillers in an Acrylic Polymer Matrix. <i>Macromolecular Symposia</i> , <b>2005</b> , 221, 95-104	0.8	84
234	Plasticized nanocomposite polymer electrolytes based on poly(oxyethylene) and cellulose whiskers. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 4667-4677	6.7	84
233	Ionic Compatibilization of Cellulose Nanocrystals with Quaternary Ammonium Salt and Their Melt Extrusion with Polypropylene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8755-64	9.5	84
232	Nanocellulose Processing Properties and Potential Applications. <i>Current Forestry Reports</i> , <b>2019</b> , 5, 76-898		83

231	Cellulose nanomaterials as green nanoreinforcements for polymer nanocomposites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2018</b> , 376,	3	83
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