# Alain Dufresne

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 374 papers | 44,170 citations | 108 h-index | 206 g-index |
| 383 ext. papers | 48,665 ext. citations | 5.7 avg, IF | 8.19 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 374 | Synergistic reinforcing and cross-linking effect of thiol-ene-modified cellulose nanofibrils on natural rubber.. *Carbohydrate Polymers*, **2022**, 278, 118954 | 10.3 | 1 |
| 373 | Quantitative Analysis of Compatibility and Dispersibility in Nanocellulose-Reinforced Composites: Hansen Solubility and Raman Mapping. *ACS Nano*, **2021**, | 16.7 | 3 |
| 372 | Nanocellulose-Based Materials for Water Treatment: Adsorption, Photocatalytic Degradation, Disinfection, Antifouling, and Nanofiltration. *Nanomaterials*, **2021**, 11, | 5.4 | 13 |
| 371 | Development of an integrated process to produce CNFs and lignin and its potential applications for agrochemical delivery. *Cellulose*, **2021**, 28, 10891-10904 | 5.5 | 2 |
| 370 | Antimicrobial activity of bleached cattail fibers (Typha domingensis) impregnated with silver nanoparticles and benzalkonium chloride. *Journal of Applied Polymer Science*, **2021**, 138, 50885 | 2.9 | 1 |
| 369 | Cellulose nanocrystal-mediated assembly of graphene oxide in natural rubber nanocomposites with high electrical conductivity. *Journal of Applied Polymer Science*, **2021**, 138, 51460 | 2.9 | 3 |
| 368 | Thick Polyvinyl Alcohol Films Reinforced with Cellulose Nanocrystals for Coating Applications. *ACS Applied Nano Materials*, **2021**, 4, 8015-8025 | 5.6 | 3 |
| 367 | Film thickness limits of a buckling-based method to determine mechanical properties of polymer coatings. *Journal of Colloid and Interface Science*, **2021**, 582, 227-235 | 9.3 | 6 |
| 366 | Nanocellulose in food packaging: A review. *Carbohydrate Polymers*, **2021**, 255, 117479 | 10.3 | 51 |
| 365 | Investigation of the Date Palm Fiber for Green Composites Reinforcement: Thermo-physical and Mechanical Properties of the Fiber. *Journal of Natural Fibers*, **2021**, 18, 717-734 | 1.8 | 26 |
| 364 | Mechanical characterization of mortar reinforced by date palm mesh fibers: Experimental and statistical analysis. *Construction and Building Materials*, **2021**, 300, 124067 | 6.7 | 6 |
| 363 | Enhancing toughness, healing and reprocessability of sustainable epoxy vitrimer composites by PEG-assisted regenerated cellulose. *Industrial Crops and Products*, **2021**, 170, 113804 | 5.9 | 3 |
| 362 | Adsorption characterization of various modified □cyclodextrins onto TEMPO-oxidized cellulose nanofibril membranes and cryogels. *Sustainable Chemistry and Pharmacy*, **2021**, 24, 100523 | 3.9 | 2 |
| 361 | Alkali Treatment Effect on Physicochemical and Tensile Properties of Date Palm Rachis Fibers. *Journal of Natural Fibers*, **2020**, 1-18 | 1.8 | 5 |
| 360 | Nanocelluloses from phormium (Phormium tenax) fibers. *Cellulose*, **2020**, 27, 4975-4990 | 5.5 | 4 |
| 359 | Morphology, Rheology and Crystallization in Relation to the Viscosity Ratio of Polystyrene/Polypropylene Polymer Blends. *Materials*, **2020**, 13, | 3.5 | 6 |
| 358 | Production and Mechanical Characterisation of TEMPO-Oxidised Cellulose Nanofibrils/□Cyclodextrin Films and Cryogels. *Molecules*, **2020**, 25, | 4.8 | 4 |

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| 357 | A Statistical Analysis of Size, Shape and Tensile Properties of Fibres Extracted from Date Palm (Phoenix Dactylifera L.) Rachis **2020**, 57-70 | | 0 |
| 356 | In situ mineralization of nano-hydroxyapatite on bifunctional cellulose nanofiber/polyvinyl alcohol/sodium alginate hydrogel using 3D printing. *International Journal of Biological Macromolecules*, **2020**, 160, 538-547 | 7.9 | 41 |
| 355 | Investigation of the date palm fiber for green composites reinforcement: Quasi-static and fatigue characterization of the fiber. *Industrial Crops and Products*, **2020**, 146, 112135 | 5.9 | 16 |
| 354 | Cellulose nanocrystal as ecofriendly stabilizer for emulsion polymerization and its application for waterborne adhesive. *Carbohydrate Polymers*, **2020**, 229, 115504 | 10.3 | 29 |
| 353 | Plant celluloses, hemicelluloses, lignins, and volatile oils for the synthesis of nanoparticles and nanostructured materials. *Nanoscale*, **2020**, 12, 22845-22890 | 7.7 | 46 |
| 352 | Nanocellulose: From an agricultural waste to a valuable pharmaceutical ingredient. *International Journal of Biological Macromolecules*, **2020**, 163, 1579-1590 | 7.9 | 38 |
| 351 | Regulating surface sulfonation on cellulose nanocrystals and self-assembly behaviors. *Chemical Communications*, **2020**, 56, 10958-10961 | 5.8 | 3 |
| 350 | Opuntia (Cactaceae) Fibrous Network-reinforced Composites: Thermal, Viscoelastic, Interfacial Adhesion and Biodegradation Behavior. *Fibers and Polymers*, **2020**, 21, 2353-2363 | 2 | 7 |
| 349 | Cellulose Nanocrystals versus Microcrystalline Cellulose as Reinforcement of Lignopolyurethane Matrix. *Fibers*, **2020**, 8, 21 | 3.7 | 7 |
| 348 | Structure, Rheological Behavior, and in Situ Local Flow Fields of Cellulose Nanocrystal Dispersions during Cross-Flow Ultrafiltration. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10679-10689 | 8.3 | 7 |
| 347 | Nanocellulose Processing Properties and Potential Applications. *Current Forestry Reports*, **2019**, 5, 76-898 | | 83 |
| 346 | Fluorescent Aerogels Based on Chemical Crosslinking between Nanocellulose and Carbon Dots for Optical Sensor. *ACS Applied Materials & Interfaces*, **2019**, 11, 16048-16058 | 9.5 | 68 |
| 345 | Introduction to Nanocellulose **2019**, 1-20 | | 3 |
| 344 | Surface Chemistry of Nanocellulose **2019**, 115-153 | | 7 |
| 343 | Role of Cellulose Nanofibrils in Polymer Nanocomposites **2019**, 251-276 | | 3 |
| 342 | Exploration of Other High-Value Applications of Nanocellulose **2019**, 423-473 | | |
| 341 | Current Status of Nanocellulose-Based Nanocomposites **2019**, 155-200 | | 3 |
| 340 | Strategies to Explore Biomedical Application of Nanocellulose **2019**, 349-395 | | 4 |

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| 339 | Structure and Properties of Cellulose Nanocrystals **2019**, 21-52 | | 0 |
| 338 | Reinforcing Mechanism of Cellulose Nanocrystals in Nanocomposites **2019**, 201-249 | | 10 |
| 337 | Structure and Properties of Cellulose Nanofibrils **2019**, 53-80 | | 2 |
| 336 | Nanofibers for Biomedical and Healthcare Applications. *Macromolecular Bioscience*, **2019**, 19, e1800256 | 5.5 | 115 |
| 335 | Current State and New Trends in the Use of Cellulose Nanomaterials for Wastewater Treatment. *Biomacromolecules*, **2019**, 20, 573-597 | 6.9 | 146 |
| 334 | Double-Network Formation and Mechanical Enhancement of Reducing End-Modified Cellulose Nanocrystals to the Thermoplastic Elastomer Based on Click Reaction and Bulk Cross-Linking. *Macromolecules*, **2019**, 52, 5894-5906 | 5.5 | 29 |
| 333 | Extraction and characterization of vascular bundle and fiber strand from date palm rachis as potential bio-reinforcement in composite. *Carbohydrate Polymers*, **2019**, 222, 114997 | 10.3 | 37 |
| 332 | Preparation and evaluation of oxygen scavenging nanocomposite films incorporating cellulose nanocrystals and Pd nanoparticles in poly(ethylene-co-vinyl alcohol). *Cellulose*, **2019**, 26, 7237-7251 | 5.5 | 6 |
| 331 | Emerging Applications of Cellulose Nanofibers **2019**, 1131-1156 | | 10 |
| 330 | Nanopolysaccharides in Environmental Treatments. *Springer Series in Biomaterials Science and Engineering*, **2019**, 255-282 | 0.6 | 0 |
| 329 | Velocity, stress and concentration fields revealed by micro-PIV and SAXS within concentration polarization layers during cross-flow ultrafiltration of colloidal Laponite clay suspensions. *Journal of Membrane Science*, **2019**, 578, 69-84 | 9.6 | 11 |
| 328 | Tunable gas barrier properties of filled-PCL film by forming percolating cellulose network. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 545, 26-30 | 5.1 | 15 |
| 327 | Advances in cellulose nanomaterials. *Cellulose*, **2018**, 25, 2151-2189 | 5.5 | 221 |
| 326 | High-Adsorption, Self-Extinguishing, Thermal, and Acoustic-Resistance Aerogels Based on Organic and Inorganic Waste Valorization from Cellulose Nanocrystals and Red Mud. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7168-7180 | 8.3 | 50 |
| 325 | Nanocellulose nanocomposite hydrogels: technological and environmental issues. *Green Chemistry*, **2018**, 20, 2428-2448 | 10 | 155 |
| 324 | Microfibrillated cellulose addition improved the physicochemical and bioactive properties of biodegradable films based on soy protein and clove essential oil. *Food Hydrocolloids*, **2018**, 79, 416-427 | 10.6 | 61 |
| 323 | Cellulose nanomaterials as green nanoreinforcements for polymer nanocomposites. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376, | 3 | 83 |
| 322 | Improved redispersibility of cellulose nanofibrils in water using maltodextrin as a green, easily removable and non-toxic additive. *Food Hydrocolloids*, **2018**, 79, 30-39 | 10.6 | 28 |

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| 321 | Composite and nanocomposite films based on amaranth biopolymers. *Food Hydrocolloids*, **2018**, 74, 159-167 | 10.6 | 34 |
| 320 | Simultaneous enhancement of elasticity and strength of AlO-based ceramics body from cellulose nanocrystals via gel-casting process. *Carbohydrate Polymers*, **2018**, 181, 111-118 | 10.3 | 13 |
| 319 | Review: nanoparticles and nanostructured materials in papermaking. *Journal of Materials Science*, **2018**, 53, 146-184 | 4.3 | 84 |
| 318 | Absorption of Siderite Within a Chemically Modified Poly(lactic acid) Based Composite Material for Agricultural Applications. *Journal of Polymers and the Environment*, **2018**, 26, 2173-2181 | 4.5 | 2 |
| 317 | Recent developments in nanocellulose-based biodegradable polymers, thermoplastic polymers, and porous nanocomposites. *Progress in Polymer Science*, **2018**, 87, 197-227 | 29.6 | 249 |
| 316 | Review on nanoparticles and nanostructured materials: history, sources, toxicity and regulations. *Beilstein Journal of Nanotechnology*, **2018**, 9, 1050-1074 | 3 | 1401 |
| 315 | Cellulose nanomaterials: size and surface influence on the thermal and rheological behavior. *Polimeros*, **2018**, 28, 93-102 | 1.6 | 21 |
| 314 | Current Challenges in Melt Extrusion of Cellulose-Based Nanocomposites. *ACS Symposium Series*, **2018**, 137-152 | 0.4 | 1 |
| 313 | How do cellulose nanocrystals affect the overall properties of biodegradable polymer nanocomposites: A comprehensive review. *European Polymer Journal*, **2018**, 108, 274-285 | 5.2 | 104 |
| 312 | Impact of TEMPO-oxidization strength on the properties of cellulose nanofibril reinforced polyvinyl acetate nanocomposites. *Carbohydrate Polymers*, **2018**, 181, 1061-1070 | 10.3 | 19 |
| 311 | Impregnation of paper with cellulose nanocrystal reinforced polyvinyl alcohol: synergistic effect of infrared drying and CNC content on crystallinity. *Soft Matter*, **2018**, 14, 9425-9435 | 3.6 | 10 |
| 310 | Biomimetic Mineralization of Three-Dimensional Printed Alginate/TEMPO-Oxidized Cellulose Nanofibril Scaffolds for Bone Tissue Engineering. *Biomacromolecules*, **2018**, 19, 4442-4452 | 6.9 | 103 |
| 309 | Hybrid nanopaper of cellulose nanofibrils and PET microfibers with high tear and crumpling resistance. *Cellulose*, **2018**, 25, 7127-7142 | 5.5 | 9 |
| 308 | Surfactant-free emulsion Pickering polymerization stabilized by aldehyde-functionalized cellulose nanocrystals. *Carbohydrate Polymers*, **2018**, 202, 621-630 | 10.3 | 40 |
| 307 | Emerging Applications of Cellulose Nanofibers **2018**, 1-26 | | 11 |
| 306 | Polysaccharide nanomaterial reinforced starch nanocomposites: A review. *Starch/Staerke*, **2017**, 69, 1500307 | 2.3 | 46 |
| 305 | Towards multifunctional cellulosic fabric: UV photo-reduction and in-situ synthesis of silver nanoparticles into cellulose fabrics. *International Journal of Biological Macromolecules*, **2017**, 98, 877-886 | 7.9 | 68 |
| 304 | Self-Assembly of Native Cellulose Nanostructures **2017**, 123-174 | | 7 |

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| 303 | Coupling Agent Usage in the Preparation of Cellulose Nanofibril (CNF)- and Cellulose Nanocrystal (CNC)-Based Nanocomposites **2017**, 335-364 | | |
| 302 | Microscopic Analysis of Cellulose Nanofibril (CNF)- and Cellulose Nanocrystal (CNC)-Based Nanocomposites **2017**, 365-392 | | 2 |
| 301 | Mechanical Properties of Cellulose Nanofibril (CNF)- and Cellulose Nanocrystal (CNC)-Based Nanocomposites **2017**, 393-443 | | 3 |
| 300 | Dynamic Mechanical Characterization of Cellulose Nanofibril CNF- and Cellulose Nanocrystal CNC-Based Nanocomposites **2017**, 445-479 | | |
| 299 | Rheological Properties of Nanocomposites Based on Cellulose Nanofibrils and Cellulose Nanocrystals **2017**, 481-521 | | 2 |
| 298 | Thermal Properties of Cellulose Nanocomposites **2017**, 523-552 | | 3 |
| 297 | Crystallization Behavior of Cellulose Nanocomposites and Cellulose Nanofibril-Reinforced Polymer Nanocomposites **2017**, 553-580 | | 2 |
| 296 | Raman Spectroscopy of CNC- and CNF-Based Nanocomposites **2017**, 609-625 | | 6 |
| 295 | Water Sorption and Barrier Properties of Cellulose Nanocomposites **2017**, 649-681 | | 2 |
| 294 | Superhydrophobic and Superoleophobic Nanostructured Cellulose and Cellulose Composites **2017**, 731-760 | | 7 |
| 293 | Surface Modification of Nanocellulose **2017**, 101-122 | | 13 |
| 292 | Thermoplastic Cellulose Nanocomposites **2017**, 175-216 | | |
| 291 | Elastomeric Nanocomposites Reinforced with Nanocellulose and Nanochitin **2017**, 217-234 | | 1 |
| 290 | Thermoset Cellulose Nanocomposites: Flammability Characteristics **2017**, 235-272 | | 2 |
| 289 | Hybrid Filler (Cellulose/Noncellulose) Reinforced Nanocomposites **2017**, 273-299 | | 2 |
| 288 | Fully Green Cellulose Nanocomposites **2017**, 301-334 | | 2 |
| 287 | Cellulose nanomaterial reinforced polymer nanocomposites. *Current Opinion in Colloid and Interface Science*, **2017**, 29, 1-8 | 7.6 | 211 |
| 286 | Characterization of Various Kinds of Nanocellulose **2017**, 51-100 | | 18 |

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| 285 | Methods for Extraction of Nanocellulose from Various Sources **2017**, 1-49 | | 61 |
| 284 | Spectroscopy Studies of Cellulose Nanofiber- and Cellulose Nanocrystal-Based Nanocomposites **2017**, 581-608 | | 1 |
| 283 | Dielectric Spectroscopy: An Efficient Tool to Study the Interfacial Adhesion and Properties of Natural Rubber/Nanocellulose-Based Green Nanocomposites **2017**, 627-648 | | 4 |
| 282 | Microstructure, thermal properties and crystallinity of amadumbe starch nanocrystals. *International Journal of Biological Macromolecules*, **2017**, 102, 241-247 | 7.9 | 45 |
| 281 | Melt extrusion of polystyrene reinforced with cellulose nanocrystals modified using poly[(styrene)-co -(2-ethylhexyl acrylate)] latex particles. *European Polymer Journal*, **2017**, 91, 297-306 | 5.2 | 25 |
| 280 | Characterization of a novel natural cellulosic fiber from Juncus effusus L. *Carbohydrate Polymers*, **2017**, 171, 163-172 | 10.3 | 163 |
| 279 | Preparation of Cellulose Nanocrystal-Reinforced Poly(lactic acid) Nanocomposites through Noncovalent Modification with PLLA-Based Surfactants. *ACS Omega*, **2017**, 2, 2678-2688 | 3.9 | 49 |
| 278 | A novel interpenetrating polymer network of natural rubber/regenerated cellulose made by simple co-precipitation. *Materials Letters*, **2017**, 205, 202-205 | 3.3 | 14 |
| 277 | A new quality index for benchmarking of different cellulose nanofibrils. *Carbohydrate Polymers*, **2017**, 174, 318-329 | 10.3 | 94 |
| 276 | PLA/PBAT Bionanocomposites with Antimicrobial Natural Rosin for Green Packaging. *ACS Applied Materials & Interfaces*, **2017**, 9, 20132-20141 | 9.5 | 101 |
| 275 | Polyethylene cellulose nanofibrils nanocomposites. *Carbohydrate Polymers*, **2017**, 173, 50-56 | 10.3 | 34 |
| 274 | Facile modification of organoclay and its effect on the compatibility and properties of novel biodegradable PBE/PBAT nanocomposites. *European Polymer Journal*, **2017**, 87, 188-199 | 5.2 | 26 |
| 273 | Utilization of Torrefied Coffee Grounds as Reinforcing Agent To Produce High-Quality Biodegradable PBAT Composites for Food Packaging Applications. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1906-1916 | 8.3 | 77 |
| 272 | Nanocellulose: Common Strategies for Processing of Nanocomposites. *ACS Symposium Series*, **2017**, 203-225 | | 7 |
| 271 | Recent developments on nanocellulose reinforced polymer nanocomposites: A review. *Polymer*, **2017**, 132, 368-393 | 3.9 | 346 |
| 270 | Humidity-Sensitive and Conductive Nanopapers from Plant-Derived Proteins with a Synergistic Effect of Platelet-Like Starch Nanocrystals and Sheet-Like Graphene. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9431-9440 | 8.3 | 15 |
| 269 | Review of recent research on flexible multifunctional nanopapers. *Nanoscale*, **2017**, 9, 15181-15205 | 7.7 | 99 |
| 268 | Reinforcement of Natural Rubber: The Use of in Situ Regenerated Cellulose from Alkaline/Urea Aqueous System. *Macromolecules*, **2017**, 50, 7211-7221 | 5.5 | 43 |

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| 267 | Elastomer Reinforced with Regenerated Chitin from Alkaline/Urea Aqueous System. *ACS Applied Materials & Interfaces*, **2017**, 9, 26460-26467 | 9.5 | 23 |
| 266 | Pilot-Scale Twin Screw Extrusion and Chemical Pretreatment as an Energy-Efficient Method for the Production of Nanofibrillated Cellulose at High Solid Content. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6524-6531 | 8.3 | 73 |
| 265 | Sustainable biodegradable coffee grounds filler and its effect on the hydrophobicity, mechanical and thermal properties of biodegradable PBAT composites. *Journal of Applied Polymer Science*, **2017**, 134, | 2.9 | 64 |
| 264 | 5. Chemical modification of nanocellulose **2017**, 221-286 | | 2 |
| 263 | 10. Swelling and barrier properties **2017**, 531-576 | | |
| 262 | 8. Thermal properties **2017**, 419-470 | | |
| 261 | 9. Mechanical properties of nanocellulose-based nanocomposites **2017**, 471-530 | | |
| 260 | 2. Preparation of microfibrillated cellulose **2017**, 47-116 | | 0 |
| 259 | 3. Preparation of cellulose nanocrystals **2017**, 117-192 | | 1 |
| 258 | 6. Rheological behavior of nanocellulose suspensions and self-assembly **2017**, 287-350 | | 1 |
| 257 | 7. Processing of nanocellulose-based materials **2017**, 351-418 | | 2 |
| 256 | 11. Other polysaccharide nanocrystals **2017**, 577-620 | | 0 |
| 255 | Nanocellulose **2017**, | | 88 |
| 254 | Structural Reorganization of CNC in Injection-Molded CNC/PBAT Materials under Thermal Annealing. *Langmuir*, **2016**, 32, 10093-10103 | 4 | 26 |
| 253 | Mechanical properties of natural rubber nanocomposites reinforced with high aspect ratio cellulose nanocrystals isolated from soy hulls. *Carbohydrate Polymers*, **2016**, 153, 143-152 | 10.3 | 125 |
| 252 | Effect of cellulosic fiber scale on linear and non-linear mechanical performance of starch-based composites. *International Journal of Biological Macromolecules*, **2016**, 91, 1040-4 | 7.9 | 17 |
| 251 | Biocompatible Double-Membrane Hydrogels from Cationic Cellulose Nanocrystals and Anionic Alginate as Complexing Drugs Codelivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 6880-9 | 9.5 | 138 |
| 250 | Structural investigation of cellulose nanocrystals extracted from chili leftover and their reinforcement in cariflex-IR rubber latex. *Carbohydrate Polymers*, **2016**, 136, 945-54 | 10.3 | 48 |

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| 249 | Cellulose nanocrystal reinforced oxidized natural rubber nanocomposites. *Carbohydrate Polymers*, **2016**, 137, 174-183 | 10.3 | 95 |
| 248 | Surface adsorption of triblock copolymer (PEOPPOPEO) on cellulose nanocrystals and their melt extrusion with polyethylene. *RSC Advances*, **2016**, 6, 66224-66232 | 3.7 | 42 |
| 247 | Study of effect of old corrugated cardboard in properties of polypropylene composites: Study of mechanical properties, thermal behavior, and morphological properties. *Journal of Vinyl and Additive Technology*, **2016**, 22, 231-238 | 2 | 8 |
| 246 | Ionic Compatibilization of Cellulose Nanocrystals with Quaternary Ammonium Salt and Their Melt Extrusion with Polypropylene. *ACS Applied Materials & Interfaces*, **2016**, 8, 8755-64 | 9.5 | 84 |
| 245 | Enhancement of Egyptian soft white cheese shelf life using a novel chitosan/carboxymethyl cellulose/zinc oxide bionanocomposite film. *Carbohydrate Polymers*, **2016**, 151, 9-19 | 10.3 | 158 |
| 244 | Microfibrillated cellulose from agricultural residues. Part II: Strategic evaluation and market analysis for MFCE30. *Industrial Crops and Products*, **2016**, 93, 175-185 | 5.9 | 13 |
| 243 | Microfibrillated cellulose from agricultural residues. Part I: Papermaking application. *Industrial Crops and Products*, **2016**, 93, 161-174 | 5.9 | 57 |
| 242 | Impact of cellulose nanocrystal aspect ratio on crystallization and reinforcement of poly(butylene adipate-co-terephthalate). *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 2284-2297 | 2.6 | 41 |
| 241 | Comprehensive morphological and structural investigation of cellulose I and II nanocrystals prepared by sulphuric acid hydrolysis. *RSC Advances*, **2016**, 6, 76017-76027 | 3.7 | 59 |
| 240 | Melt processing of cellulose nanocrystal reinforced polycarbonate from a masterbatch process. *European Polymer Journal*, **2015**, 69, 208-223 | 5.2 | 43 |
| 239 | Effect of the oxidation treatment on the production of cellulose nanofiber suspensions from Posidonia oceanica: The rheological aspect. *Carbohydrate Polymers*, **2015**, 134, 664-72 | 10.3 | 33 |
| 238 | Evaluation of bionanocomposites as packaging material on properties of soft white cheese during storage period. *Carbohydrate Polymers*, **2015**, 132, 274-85 | 10.3 | 95 |
| 237 | Cellulose nanocrystal reinforced liquid natural rubber toughened unsaturated polyester: Effects of filler content and surface treatment on its morphological, thermal, mechanical, and viscoelastic properties. *Polymer*, **2015**, 71, 51-59 | 3.9 | 43 |
| 236 | Highly alkynyl-functionalization of cellulose nanocrystals and advanced nanocomposites thereof via click chemistry. *Polymer Chemistry*, **2015**, 6, 4385-4395 | 4.9 | 56 |
| 235 | Roles of in situ surface modification in controlling the growth and crystallization of CaCO3 nanoparticles, and their dispersion in polymeric materials. *Journal of Materials Science*, **2015**, 50, 7908-7918 | 4.3 | 42 |
| 234 | Cellulose nanocrystal: A promising toughening agent for unsaturated polyester nanocomposite. *Polymer*, **2015**, 56, 346-357 | 3.9 | 138 |
| 233 | Esterification and amidation for grafting long aliphatic chains on to cellulose nanocrystals: a comparative study. *Research on Chemical Intermediates*, **2015**, 41, 4293-4310 | 2.8 | 26 |
| 232 | Nanocellulose: Biomedical Nanomaterial Applications **2015**, 5077-5100 | | 1 |

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| 231 | Cellulose Nanomaterials **2015**, 1-22 | | |
| 230 | Green polyethylene and curaua cellulose nanocrystal based nanocomposites: Effect of vegetable oils as coupling agent and processing technique. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 1010-1019 | 2.6 | 34 |
| 229 | Development of wheat gluten/nanocellulose/titanium dioxide nanocomposites for active food packaging. *Carbohydrate Polymers*, **2015**, 124, 337-46 | 10.3 | 180 |
| 228 | Amaranth protein films reinforced with maize starch nanocrystals. *Food Hydrocolloids*, **2015**, 47, 146-157 | 10.6 | 74 |
| 227 | Bio-based polyurethane reinforced with cellulose nanofibers: a comprehensive investigation on the effect of interface. *Carbohydrate Polymers*, **2015**, 122, 202-11 | 10.3 | 105 |
| 226 | Different preparation methods and properties of nanostructured cellulose from various natural resources and residues: a review. *Cellulose*, **2015**, 22, 935-969 | 5.5 | 493 |
| 225 | Toughened polyester cellulose nanocomposites: Effects of cellulose nanocrystals and liquid epoxidized natural rubber on morphology and mechanical properties. *Industrial Crops and Products*, **2015**, 72, 125-132 | 5.9 | 15 |
| 224 | Mechanical and thermal properties of Posidonia oceanica cellulose nanocrystal reinforced polymer. *Carbohydrate Polymers*, **2015**, 123, 99-104 | 10.3 | 88 |
| 223 | Nanofibrillar cellulose from Posidonia oceanica: Properties and morphological features. *Industrial Crops and Products*, **2015**, 72, 97-106 | 5.9 | 41 |
| 222 | Preparation and characterization of new cellulose nanocrystals from marine biomass Posidonia oceanica. *Industrial Crops and Products*, **2015**, 72, 175-182 | 5.9 | 79 |
| 221 | Starch and Nanoparticle **2015**, 417-449 | | 6 |
| 220 | Cellulose nanocrystals and related nanocomposites: Review of some properties and challenges. *Journal of Polymer Science, Part B: Polymer Physics*, **2014**, 52, 791-806 | 2.6 | 552 |
| 219 | Mechanical Performance and Transparency of Nanocellulose Reinforced Polymer Nanocomposites. *Macromolecular Materials and Engineering*, **2014**, 299, 560-568 | 3.9 | 77 |
| 218 | Extrusion of polysaccharide nanocrystal reinforced polymer nanocomposites through compatibilization with poly(ethylene oxide). *ACS Applied Materials & Interfaces*, **2014**, 6, 9365-75 | 9.5 | 87 |
| 217 | Control of size and viscoelastic properties of nanofibrillated cellulose from palm tree by varying the TEMPO-mediated oxidation time. *Carbohydrate Polymers*, **2014**, 99, 74-83 | 10.3 | 127 |
| 216 | Polyelectrolyte films based on chitosan/olive oil and reinforced with cellulose nanocrystals. *Carbohydrate Polymers*, **2014**, 101, 1018-26 | 10.3 | 163 |
| 215 | Crystalline starch based nanoparticles. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 397-408 | 7.6 | 75 |
| 214 | Green bionanocomposites from high-elasticity (soft) polyurethane and high-crystallinity (rigid) chitin nanocrystals with controlled surface acetylation. *RSC Advances*, **2014**, 4, 49098-49107 | 3.7 | 18 |

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| 213 | Effect of cationic and anionic surfactants on the application of calcium carbonate nanoparticles in paper coating. *ACS Applied Materials & Interfaces*, **2014**, 6, 2734-44 | 9.5 | 101 |
| 212 | Nanocellulose in biomedicine: Current status and future prospect. *European Polymer Journal*, **2014**, 59, 302-325 | 5.2 | 1013 |
| 211 | Electric field alignment of nanofibrillated cellulose (NFC) in silicone oil: impact on electrical properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 9418-25 | 9.5 | 43 |
| 210 | Biodegradable starch-based composites: effect of micro and nanoreinforcements on composite properties. *Journal of Materials Science*, **2014**, 49, 4513-4521 | 4.3 | 41 |
| 209 | Surface chemistry, morphological analysis and properties of cellulose nanocrystals with gradiented sulfation degrees. *Nanoscale*, **2014**, 6, 5384-93 | 7.7 | 332 |
| 208 | Kenaf bast cellulosic fibers hierarchy: a comprehensive approach from micro to nano. *Carbohydrate Polymers*, **2014**, 101, 878-85 | 10.3 | 147 |
| 207 | Preparation of Polysaccharide Nanocrystal-Based Nanocomposites **2014**, 109-164 | | |
| 206 | Polysaccharide Nanocrystals-Based Materials for Advanced Applications **2014**, 219-254 | | 1 |
| 205 | Polysaccharide Nanocrystals: Current Status and Prospects in Material Science **2014**, 1-14 | | 2 |
| 204 | Polysaccharide Nanocrystal-Reinforced Nanocomposites **2014**, 165-218 | | |
| 203 | Structure and Properties of Polysaccharide Nanocrystals **2014**, 15-62 | | 1 |
| 202 | A comparative study on characteristics of nanocellulose reinforced thermoplastic starch biofilms prepared with different techniques. *Nordic Pulp and Paper Research Journal*, **2014**, 29, 41-45 | 1.1 | 34 |
| 201 | Bionanocomposites: State-of-the-Art Materials. *Plastics Engineering*, **2014**, 70, 38-43 | 0.8 | |
| 200 | Characterization of Polysaccharide Nanocrystal-Based Materials **2014**, 255-300 | | 1 |
| 199 | Surface Modification of Polysaccharide Nanocrystals **2014**, 63-108 | | |
| 198 | Starch Nanocrystals. *Materials and Energy*, **2014**, 89-103 | | |
| 197 | All starch nanocomposite coating for barrier material. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a | 2.9 | 13 |
| 196 | Preparation and Characterization of Cellulose Nanofibril/Polyvinyl Alcohol Composite Nanofibers by Electrospinning. *Journal of the Korean Wood Science and Technology*, **2014**, 42, 119-129 | 2 | 15 |

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| 195 | Starch and Nanoparticle **2014**, 1-28 | | 1 |
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