# M Naceur Belgacem

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 239 papers | 14,899 citations | 62 h-index | 115 g-index |
| 251 ext. papers | 16,471 ext. citations | 5.7 avg, IF | 6.9 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 239 | Nanocellulose **2022**, 119-141 | | |
| 238 | Nanocellulose **2021**, 1-23 | | |
| 237 | Lignin Nanoparticle Nucleation and Growth on Cellulose and Chitin Nanofibers. *Biomacromolecules*, **2021**, 22, 880-889 | 6.9 | 6 |
| 236 | Cellulose fibers deconstruction by twin-screw extrusion with in situ enzymatic hydrolysis via bioextrusion. *Bioresource Technology*, **2021**, 327, 124819 | 11 | 3 |
| 235 | Two-step immobilization of metronidazole prodrug on TEMPO cellulose nanofibrils through thiol-yne click chemistry for in situ controlled release. *Carbohydrate Polymers*, **2021**, 262, 117952 | 10.3 | 2 |
| 234 | Alkaline treatment combined with enzymatic hydrolysis for efficient cellulose nanofibrils production. *Carbohydrate Polymers*, **2021**, 255, 117383 | 10.3 | 12 |
| 233 | Natural acidic deep eutectic solvent to obtain cellulose nanocrystals using the design of experience approach. *Carbohydrate Polymers*, **2021**, 252, 117136 | 10.3 | 11 |
| 232 | Low permeable hydrophobic nanofibrilated cellulose films modified by dipping and heating processing technique. *Cellulose*, **2021**, 28, 1617-1632 | 5.5 | 4 |
| 231 | Analysis of the oxypropylation process of a lignocellulosic material, almond shell, using the response surface methodology (RSM). *Industrial Crops and Products*, **2020**, 153, 112542 | 5.9 | 3 |
| 230 | The surface chemistry of a nanocellulose drug carrier unravelled by MAS-DNP. *Chemical Science*, **2020**, 11, 3868-3877 | 9.4 | 19 |
| 229 | Role of solvent exchange in dispersion of cellulose nanocrystals and their esterification using fatty acids as solvents. *Cellulose*, **2020**, 27, 4319-4336 | 5.5 | 6 |
| 228 | Date Palm Nanofibres and Composites **2020**, 185-206 | | 2 |
| 227 | Polymerization of glycidyl methacrylate from the surface of cellulose nanocrystals for the elaboration of PLA-based nanocomposites. *Carbohydrate Polymers*, **2020**, 234, 115899 | 10.3 | 15 |
| 226 | Cellulose phosphorylation comparison and analysis of phosphorate position on cellulose fibers. *Carbohydrate Polymers*, **2020**, 229, 115294 | 10.3 | 24 |
| 225 | Polyurethanes from plant- and fossil-sourced polyols: Properties of neat polymers and their sisal composites. *Industrial Crops and Products*, **2020**, 155, 112821 | 5.9 | 6 |
| 224 | High-Barrier and Antioxidant Poly(lactic acid)/Nanocellulose Multilayered Materials for Packaging. *ACS Omega*, **2020**, 5, 22816-22826 | 3.9 | 9 |
| 223 | Amidation of TEMPO-oxidized cellulose nanocrystals using aromatic aminated molecules. *Colloid and Polymer Science*, **2020**, 298, 603-617 | 2.4 | 14 |

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| 222 | Preparation and Characterization of Carboxymethyl Cellulose with a High Degree of Substitution from Agricultural Wastes. *Fibers and Polymers*, **2019**, 20, 933-943 | 2 | 10 |
| 221 | Production of fire-retardant phosphorylated cellulose fibrils by twin-screw extrusion with low energy consumption. *Cellulose*, **2019**, 26, 5635-5651 | 5.5 | 21 |
| 220 | Efficiency of Cellulose Carbonates to Produce Cellulose Nanofibers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8155-8167 | 8.3 | 12 |
| 219 | Recent advances in surface-modified cellulose nanofibrils. *Progress in Polymer Science*, **2019**, 88, 241-264 | 29.6 | 273 |
| 218 | One-step superhydrophobic coating using hydrophobized cellulose nanofibrils. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 544, 152-158 | 5.1 | 24 |
| 217 | Designed cellulose nanocrystal surface properties for improving barrier properties in polylactide nanocomposites. *Carbohydrate Polymers*, **2018**, 183, 267-277 | 10.3 | 40 |
| 216 | Controlled release of carvacrol and curcumin: bio-based food packaging by synergism action of TEMPO-oxidized cellulose nanocrystals and cyclodextrin. *Cellulose*, **2018**, 25, 1249-1263 | 5.5 | 35 |
| 215 | Comparison of nanocrystals and nanofibers produced from shrimp shell β-chitin: From energy production to material cytotoxicity and Pickering emulsion properties. *Carbohydrate Polymers*, **2018**, 196, 385-397 | 10.3 | 67 |
| 214 | Pulp and Paper from Sugarcane: Properties of Rind and Core Fractions. *Journal of Renewable Materials*, **2018**, 6, 160-168 | 2.4 | 3 |
| 213 | Synthesis and characterization of cellulose carbonate using greenchemistry: Surface modification of Avicel. *Carbohydrate Polymers*, **2017**, 163, 254-260 | 10.3 | 13 |
| 212 | Effect of variable aminoalkyl chains on chemical grafting of cellulose nanofiber and their antimicrobial activity. *Materials Science and Engineering C*, **2017**, 75, 760-768 | 8.3 | 44 |
| 211 | Preparation and application of Tunisian phosphogypsum as fillers in papermaking made from Prunus amygdalus and Tamarisk sp.. *Powder Technology*, **2017**, 312, 287-293 | 5.2 | 7 |
| 210 | β-Cyclodextrin-grafted TEMPO-oxidized cellulose nanofibers for sustained release of essential oil. *Journal of Materials Science*, **2017**, 52, 3849-3861 | 4.3 | 23 |
| 209 | Biomatrix from Stipa tenacissima L. and its Application in Fiberboard Using Date Palm Rachis as Filler. *Journal of Renewable Materials*, **2017**, 5, 116-123 | 2.4 | 2 |
| 208 | Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. *Analytical Chemistry*, **2017**, 89, 10124-10128 | 7.8 | 20 |
| 207 | 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 |
| 206 | The nanocellulose biorefinery: woody versus herbaceous agricultural wastes for NCC production. *Cellulose*, **2017**, 24, 693-704 | 5.5 | 25 |
| 205 | Nanocomposites with functionalised polysaccharide nanocrystals through aqueous free radical polymerisation promoted by ozonolysis. *Carbohydrate Polymers*, **2016**, 135, 256-66 | 10.3 | 33 |

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| 204 | Surface cationized cellulose nanofibrils for the production of contact active antimicrobial surfaces. *Carbohydrate Polymers*, **2016**, 135, 239-47 | 10.3 | 86 |
| 203 | Influence of ionic interactions between nanofibrillated cellulose and latex on the ensuing composite properties. *Composites Part B: Engineering*, **2016**, 85, 188-195 | 10 | 15 |
| 202 | Laccase-based biocathodes: Comparison of chitosan and Nafion. *Analytica Chimica Acta*, **2016**, 937, 43-52 | 6.6 | 7 |
| 201 | A New Way to Produce Cellobiose Carbonates Using Green Chemistry. *ChemSusChem*, **2016**, 9, 2143-8 | 8.3 | 4 |
| 200 | Modification of Natural Fibers Using Physical Technologies and Their Applications for Composites **2016**, 323-344 | | 2 |
| 199 | Papermaking and Wet-End Chemistry **2016**, 439-462 | | |
| 198 | Surface Treatments of Paper **2016**, 481-492 | | |
| 197 | Current Progress in Rheology of Cellulose Nanofibril Suspensions. *Biomacromolecules*, **2016**, 17, 2311-20 | 6.9 | 141 |
| 196 | Production of cellulose nanocrystals from sugarcane bagasse fibers and pith. *Industrial Crops and Products*, **2016**, 93, 48-57 | 5.9 | 115 |
| 195 | Industrial and crop wastes: A new source for nanocellulose biorefinery. *Industrial Crops and Products*, **2016**, 93, 26-38 | 5.9 | 194 |
| 194 | Nisin anchored cellulose nanofibers for long term antimicrobial active food packaging. *RSC Advances*, **2016**, 6, 12422-12430 | 3.7 | 65 |
| 193 | Capillary Flow Resistors: Local and Global Resistors. *Langmuir*, **2016**, 32, 915-21 | 4 | 15 |
| 192 | Production of cellulose nanofibrils: A review of recent advances. *Industrial Crops and Products*, **2016**, 93, 2-25 | 5.9 | 826 |
| 191 | A study of the production of cellulose nanocrystals through subcritical water hydrolysis. *Industrial Crops and Products*, **2016**, 93, 88-95 | 5.9 | 33 |
| 190 | Micro-mechanics of electrostatically stabilized suspensions of cellulose nanofibrils under steady state shear flow. *Soft Matter*, **2016**, 12, 1721-35 | 3.6 | 26 |
| 189 | Non leaching biomimetic antimicrobial surfaces via surface functionalisation of cellulose nanofibers with aminosilane. *Cellulose*, **2016**, 23, 795-810 | 5.5 | 58 |
| 188 | Spontaneous capillary flows in piecewise varying cross section microchannels. *Sensors and Actuators B: Chemical*, **2016**, 223, 868-877 | 8.5 | 13 |
| 187 | Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals. *Composites Part A: Applied Science and Manufacturing*, **2016**, 83, 80-88 | 8.4 | 54 |

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| 186 | Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. *Carbohydrate Polymers*, **2016**, 137, 1-8 | 10.3 | 73 |
| 185 | Viscoelastic capillary flow: the case of whole blood. *AIMS Biophysics*, **2016**, 3, 340-357 | 0.8 | 5 |
| 184 | Melt extruded nanocomposites of polybutylene adipate-co-terephthalate (PBAT) with phenylbutyl isocyanate modified cellulose nanocrystals. *Journal of Applied Polymer Science*, **2016**, 133, | 2.9 | 34 |
| 183 | Spontaneous capillary flow in curved, open microchannels. *Microfluidics and Nanofluidics*, **2016**, 20, 1 | 2.8 | 8 |
| 182 | Cellulose nanocrystal surface functionalization for the controlled sorption of water and organic vapours. *Cellulose*, **2016**, 23, 2955-2970 | 5.5 | 25 |
| 181 | Nanocomposites of PBAT and cellulose nanocrystals modified by in situ polymerization and melt extrusion. *Polymer Engineering and Science*, **2016**, 56, 1339-1348 | 2.3 | 27 |
| 180 | On the origins of the elasticity of cellulose nanofiber nanocomposites and nanopapers: a micromechanical approach. *RSC Advances*, **2016**, 6, 47258-47271 | 3.7 | 13 |
| 179 | Evaluation of the effects of chemical composition and refining treatments on the properties of nanofibrillated cellulose films from sugarcane bagasse. *Industrial Crops and Products*, **2016**, 91, 238-248 | 5.9 | 39 |
| 178 | Elaboration of cellulose based nanobiocomposite: Effect of cellulose nanocrystals surface treatment and interface melting. *Industrial Crops and Products*, **2015**, 72, 7-15 | 5.9 | 15 |
| 177 | Lignopolyurethanic materials based on oxypropylated sodium lignosulfonate and castor oil blends. *Industrial Crops and Products*, **2015**, 72, 77-86 | 5.9 | 46 |
| 176 | Bioelectrodes modified with chitosan for long-term energy supply from the body. *Energy and Environmental Science*, **2015**, 8, 1017-1026 | 35.4 | 58 |
| 175 | Contact Antimicrobial Surface Obtained by Chemical Grafting of Microfibrillated Cellulose in Aqueous Solution Limiting Antibiotic Release. *ACS Applied Materials & Interfaces*, **2015**, 7, 18076-85 | 9.5 | 37 |
| 174 | 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 |
| 173 | Natural copaiba oil as antibacterial agent for bio-based active packaging. *Industrial Crops and Products*, **2015**, 70, 134-141 | 5.9 | 45 |
| 172 | Concentration effect of TEMPO-oxidized nanofibrillated cellulose aqueous suspensions on the flow instabilities and small-angle X-ray scattering structural characterization. *Cellulose*, **2015**, 22, 2197-2210 | 5.5 | 33 |
| 171 | Substitution of nanoclay in high gas barrier films of cellulose nanofibrils with cellulose nanocrystals and thermal treatment. *Cellulose*, **2015**, 22, 1227-1241 | 5.5 | 46 |
| 170 | The Surface and In-Depth Modification of Cellulose Fibers. *Advances in Polymer Science*, **2015**, 169-206 | 1.3 | 11 |
| 169 | Gelation and isoconversional kinetic analysis of synthesis of lignin-resorcinol-glyoxal resin curing. *Iranian Polymer Journal (English Edition)*, **2015**, 24, 919-925 | 2.3 | 6 |

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| 168 | Subcritical Water: A Method for Green Production of Cellulose Nanocrystals. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2839-2846 | 8.3 | 108 |
| 167 | Natural active molecule chemical grafting on the surface of microfibrillated cellulose for fabrication of contact active antimicrobial surfaces. *Industrial Crops and Products*, **2015**, 78, 82-90 | 5.9 | 11 |
| 166 | Thermoreversible crosslinked thermoplastic starch. *Polymer International*, **2015**, 64, 1366-1372 | 3.3 | 9 |
| 165 | Morphological properties of nanofibrillated cellulose produced using wet grinding as an ultimate fibrillation process. *Journal of Materials Science*, **2015**, 50, 531-541 | 4.3 | 92 |
| 164 | Engineered pigments based on iridescent cellulose nanocrystal films. *Carbohydrate Polymers*, **2015**, 122, 367-75 | 10.3 | 35 |
| 163 | Carboxymethylcellulose (CMC) as a model compound of cellulose fibers and polyamideamine epichlorohydrin (PAE)□CMC interactions as a model of PAE□fibers interactions of PAE-based wet strength papers. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a | 2.9 | 25 |
| 162 | Laser scanning for assessment of the fiber anisotropy and orientation in the surfaces and bulk of the paper. *Nordic Pulp and Paper Research Journal*, **2015**, 30, 308-318 | 1.1 | 0 |
| 161 | Heterogeneous flow kinematics of cellulose nanofibril suspensions under shear. *Soft Matter*, **2015**, 11, 4742-55 | 3.6 | 54 |
| 160 | Flexibility and color monitoring of cellulose nanocrystal iridescent solid films using anionic or neutral polymers. *ACS Applied Materials & Interfaces*, **2015**, 7, 4010-8 | 9.5 | 158 |
| 159 | Mechanical and thermal properties of Posidonia oceanica cellulose nanocrystal reinforced polymer. *Carbohydrate Polymers*, **2015**, 123, 99-104 | 10.3 | 88 |
| 158 | Preparation and characterization of new cellulose nanocrystals from marine biomass Posidonia oceanica. *Industrial Crops and Products*, **2015**, 72, 175-182 | 5.9 | 79 |
| 157 | Lignin-based rigid polyurethane foams with improved biodegradation. *Journal of Cellular Plastics*, **2014**, 50, 81-95 | 1.5 | 59 |
| 156 | Surface characterization of industrial flexible polyvinyl(chloride) films. *Applied Surface Science*, **2014** , 296, 147-153 | 6.7 | 7 |
| 155 | Cellulose-based nanocomposites prepared via mini-emulsion polymerization: Understanding the chemistry of the nanocellulose/matrix interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 448, 1-8 | 5.1 | 40 |
| 154 | Green process for chemical functionalization of nanocellulose with carboxylic acids. *Biomacromolecules*, **2014**, 15, 4551-60 | 6.9 | 119 |
| 153 | Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. *Chemical Communications*, **2014**, 50, 14535-8 | 5.8 | 33 |
| 152 | Antibacterial activity and biodegradability assessment of chemically grafted nanofibrillated cellulose. *Materials Science and Engineering C*, **2014**, 45, 477-83 | 8.3 | 39 |
| 151 | Isolation and characterization of cellulose nanocrystals from industrial by-products of Agave tequilana and barley. *Industrial Crops and Products*, **2014**, 62, 552-559 | 5.9 | 97 |

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| 150 | UV irradiation-assisted grafting of poly(ethylene terephthalate) fabrics. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 441, 606-613 | 5.1 | 18 |
| 149 | Rheological properties of micro-/nanofibrillated cellulose suspensions: wall-slip and shear banding phenomena. *Carbohydrate Polymers*, **2014**, 112, 432-9 | 10.3 | 110 |
| 148 | Furans **2014**, 93-110 | | 6 |
| 147 | Encapsulation of a pressure sensitive adhesive by spray-cooling: Optimum formulation and processing conditions. *Advanced Powder Technology*, **2014**, 25, 292-300 | 4.6 | 8 |
| 146 | Synthesis and characterization of bio-based furanic polyesters. *Journal of Polymer Research*, **2014**, 21, 1 | 2.7 | 47 |
| 145 | Effect of chemically modified nanofibrillated cellulose addition on the properties of fiber-based materials. *Industrial Crops and Products*, **2013**, 48, 98-105 | 5.9 | 69 |
| 144 | Processing and dimensional changes of cement based composites reinforced with surface-treated cellulose fibres. *Cement and Concrete Composites*, **2013**, 37, 68-75 | 8.6 | 66 |
| 143 | Different strategies for obtaining high opacity films of MFC with TiO2 pigments. *Cellulose*, **2013**, 20, 3025-3037 | 5.5 | 28 |
| 142 | Characterization of oil-proof papers containing new-type of fluorochemicals Part 1: Surface properties and printability. *Applied Surface Science*, **2013**, 277, 57-66 | 6.7 | 7 |
| 141 | The State of the Art of Polymers from Renewable Resources **2013**, 71-85 | | 7 |
| 140 | Nanofibrillated Cellulose Surface Modification: A Review. *Materials*, **2013**, 6, 1745-1766 | 3.5 | 430 |
| 139 | Characterization of Commercial Polyvinylbutyrals. *International Journal of Polymer Analysis and Characterization*, **2013**, 18, 346-357 | 1.7 | 13 |
| 138 | Isocyanate-treated cellulose pulp and its effect on the alkali resistance and performance of fiber cement composites. *Holzforschung*, **2013**, 67, 853-861 | 2 | 25 |
| 137 | Cyclodextrin functionalization of several cellulosic substrates for prolonged release of antibacterial agents. *Journal of Applied Polymer Science*, **2013**, 129, 604-613 | 2.9 | 24 |
| 136 | Cold-plasma Assisted Hydrophobisation of Lignocellulosic Fibres. *Current Organic Chemistry*, **2013**, 17, 892-899 | 1.7 | 3 |
| 135 | Hydrolysis-condensation kinetics of 3-(2-amino-ethylamino)propyl-trimethoxysilane. *Materials Science and Engineering C*, **2012**, 32, 487-493 | 8.3 | 35 |
| 134 | Impact of bleaching pine fibre on the fibre/cement interface. *Journal of Materials Science*, **2012**, 47, 4167-4177 | 4.5 | 37 |
| 133 | Organization of aliphatic chains grafted on nanofibrillated cellulose and influence on final properties. *Cellulose*, **2012**, 19, 1957-1973 | 5.5 | 56 |

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| 132 | Encapsulation of a pressure-sensitive adhesive by spray-drying: microparticles preparation and evaluation of their crushing strength. *Journal of Microencapsulation*, **2012**, 29, 185-93 | 3.4 | 2 |
| 131 | Effect of the molecular structure on the reactivity in a family of tetra-amine compounds derived from Jeffamines. *Macromolecular Research*, **2012**, 20, 800-809 | 1.9 | 8 |
| 130 | Sulfonation of polyester fabrics by gaseous sulfur oxide activated by UV irradiation. *Applied Surface Science*, **2012**, 258, 9737-9741 | 6.7 | 24 |
| 129 | Biocomposites based on polycaprolactone reinforced with alfa fibre mats. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 742-747 | 8.4 | 16 |
| 128 | Nanofibrillated cellulose surface grafting in ionic liquid. *Soft Matter*, **2012**, 8, 8338 | 3.6 | 60 |
| 127 | Water redispersible dried nanofibrillated cellulose by adding sodium chloride. *Biomacromolecules*, **2012**, 13, 4118-25 | 6.9 | 80 |
| 126 | Fungal degradation of lignin-based rigid polyurethane foams. *Polymer Degradation and Stability*, **2012**, 97, 2069-2076 | 4.7 | 37 |
| 125 | Study of the valorization of phosphogypsum in the region of Gafsaas filler in paper. *IOP Conference Series: Materials Science and Engineering*, **2012**, 28, 012018 | 0.4 | 2 |
| 124 | Effect of nature of ceria support in CuO/CeO2 catalyst for PROX-CO reaction. *Fuel*, **2012**, 97, 245-252 | 7.1 | 57 |
| 123 | Cold-plasma assisted grafting of cellulose fibres by acrylic monomers **2012**, | | 2 |
| 122 | Processing Changes of Cement Based Composites Reinforced with Silane and Isocyanate Eucalyptus Modified Fibres. *Key Engineering Materials*, **2012**, 517, 437-449 | 0.4 | 1 |
| 121 | Pr□paration et caract□isation d□n mat□iau composite □base dePosidonia oceanica. *Materiaux Et Techniques*, **2012**, 100, 369-375 | 0.6 | 6 |
| 120 | All-Cellulosic Based Composites **2011**, 399-421 | | 4 |
| 119 | Production, Chemistry and Properties of Cellulose-Based Materials **2011**, 151-178 | | 5 |
| 118 | Carboxymethylcellulose: A conductivity enhancer and film-forming agent for processable polypyrrole from aqueous medium. *Synthetic Metals*, **2011**, 161, 397-403 | 3.6 | 17 |
| 117 | Recent Advances in Surface Chemical Modification of Cellulose Fibres. *Journal of Adhesion Science and Technology*, **2011**, 25, 661-684 | 2 | 33 |
| 116 | Tunisian date palm rachis used as an alternative source of fibres for papermaking applications. *BioResources*, **2011**, 6, 265-281 | 1.3 | 35 |
| 115 | Characterization of the effects of lignin and lignin complex particles as filler on a polystyrene film. *Materials Chemistry and Physics*, **2011**, 131, 348-357 | 4.4 | 26 |

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| 114 | Synthesis and characterization of cellulose whiskers/polymer nanocomposite dispersion by mini-emulsion polymerization. *Journal of Colloid and Interface Science*, **2011**, 363, 129-36 | 9.3 | 43 |
| 113 | New lignocellulosic fibres-reinforced composite materials: A stepforward in the valorisation of the Posidonia oceanica balls. *Composites Science and Technology*, **2011**, 71, 1867-1872 | 8.6 | 55 |
| 112 | Industrial pressure sensitive adhesives suitable for physicochemical microencapsulation. *International Journal of Adhesion and Adhesives*, **2011**, 31, 629-633 | 3.4 | 10 |
| 111 | Hydrolysis-Condensation Kinetics of Different Silane Coupling Agents. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2011**, 186, 240-254 | 1 | 62 |
| 110 | Valorisation of Vegetal Wastes as a Source of Cellulose and Cellulose Derivatives. *Journal of Polymers and the Environment*, **2011**, 19, 80-89 | 4.5 | 21 |
| 109 | Performance of CuO□eO2 Catalysts with Low Copper Content in CO Preferential Oxidation Reaction. *Catalysis Letters*, **2011**, 141, 316-321 | 2.8 | 21 |
| 108 | Polypyrrole (PPy) chemical synthesis with xylan in aqueous medium and production of highly conducting PPy/nanofibrillated cellulose films and coatings. *Cellulose*, **2011**, 18, 1455-1467 | 5.5 | 21 |
| 107 | Melt rheology of nanocomposites based on acrylic copolymer and cellulose whiskers. *Composites Science and Technology*, **2011**, 71, 818-827 | 8.6 | 40 |
| 106 | Preparation of nanocomposite dispersions based on cellulose whiskers and acrylic copolymer by miniemulsion polymerization: Effect of the silane content. *Polymer Engineering and Science*, **2011**, 51, 62-70 | 2.3 | 52 |
| 105 | Kinetic study of the formation of lignin-based polyurethanes in bulk. *Reactive and Functional Polymers*, **2011**, 71, 863-869 | 4.6 | 62 |
| 104 | Chemical versus solvent extraction treatment: Comparison and influence on polyester based bio-composite mechanical properties. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 703-708 | 8.4 | 13 |
| 103 | Cellulose-reinforced composites: From micro-to nanoscale. *Polimeros*, **2010**, 20, 1-10 | 1.6 | 14 |
| 102 | Surface functionalization of cellulose by grafting oligoether chains. *Materials Chemistry and Physics*, **2010**, 120, 438-445 | 4.4 | 53 |
| 101 | Extraction of cellulose whiskers from cassava bagasse and their applications as reinforcing agent in natural rubber. *Industrial Crops and Products*, **2010**, 32, 486-490 | 5.9 | 152 |
| 100 | Composites of rigid polyurethane foam and cellulose fiber residue. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a | 2.9 | 32 |
| 99 | Beneficial Effect of Compatibilization on the Aging of Cellulose-Reinforced Biopolymer Blends. *Macromolecular Materials and Engineering*, **2010**, 295, 774-781 | 3.9 | 2 |
| 98 | Highly Conducting Polypyrrole/Cellulose Nanocomposite Films with Enhanced Mechanical Properties. *Macromolecular Materials and Engineering*, **2010**, 295, 934-941 | 3.9 | 59 |
| 97 | Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. *Journal of Colloid and Interface Science*, **2010**, 344, 588-95 | 9.3 | 56 |

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| 96 | Grafting of cellulose by fluorine-bearing silane coupling agents. *Materials Science and Engineering C*, **2010**, 30, 343-347 | 8.3 | 33 |
| 95 | Surface modification of cellulose by PCL grafts. *Acta Materialia*, **2010**, 58, 792-801 | 8.4 | 60 |
| 94 | Competition between hydrolysis and condensation reactions of trialkoxysilanes, as a function of the amount of water and the nature of the organic group. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2010**, 366, 147-154 | 5.1 | 90 |
| 93 | Chemical composition and pulping of date palm rachis and Posidonia oceanica--a comparison with other wood and non-wood fibre sources. *Bioresource Technology*, **2010**, 101, 775-80 | 11 | 196 |
| 92 | Process and recyclability analyses of innovative bio-composite for tray. *Packaging Technology and Science*, **2010**, 23, 177-188 | 2.3 | 3 |
| 91 | Cassava bagasse cellulose nanofibrils reinforced thermoplastic cassava starch. *Carbohydrate Polymers*, **2009**, 78, 422-431 | 10.3 | 315 |
| 90 | An integrated process to produce vanillin and lignin-based polyurethanes from Kraft lignin. *Chemical Engineering Research and Design*, **2009**, 87, 1276-1292 | 5.5 | 314 |
| 89 | Green chemicals and process to graft cellulose fibers. *Journal of Colloid and Interface Science*, **2009**, 330, 298-302 | 9.3 | 29 |
| 88 | Cellulose modified fibres in cement based composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 2046-2053 | 8.4 | 145 |
| 87 | Optimization Study of Lignin Oxypropylation in View of the Preparation of Polyurethane Rigid Foams. *Industrial & Engineering Chemistry Research*, **2009**, 48, 2583-2589 | 3.9 | 204 |
| 86 | Characterization of three non-product materials from a bleached eucalyptus kraft pulp mill, in view of valorising them as a source of cellulose fibres. *Industrial Crops and Products*, **2008**, 27, 288-295 | 5.9 | 54 |
| 85 | The State of the Art **2008**, 1-16 | | 23 |
| 84 | Furan Derivatives and Furan Chemistry at the Service of Macromolecular Materials **2008**, 115-152 | | 21 |
| 83 | Partial or Total Oxypropylation of Natural Polymers and the Use of the Ensuing Materials as Composites or Polyol Macromonomers **2008**, 273-288 | | 11 |
| 82 | Surface Modification of Cellulose Fibres **2008**, 385-400 | | 27 |
| 81 | Chemical Modification of Wood **2008**, 419-431 | | 7 |
| 80 | Materials from Vegetable Oils: Major Sources, Properties and Applications **2008**, 39-66 | | 45 |
| 79 | RIGID POLYURETHANE FOAMS FROM LIGNIN BASED-POLYOLS. *AIP Conference Proceedings*, **2008**, | 0 | 4 |

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| 78 | Grafting of Paper by Silane Coupling Agents Using Cold-Plasma Discharges. *Plasma Processes and Polymers*, **2008**, 5, 444-452 | 3.4 | 27 |
| 77 | Silicone Liner-Free Pressure-Sensitive Adhesive Labels. *Macromolecular Materials and Engineering*, **2008**, 293, 167-172 | 3.9 | 8 |
| 76 | Adsorption of silane onto cellulose fibers. II. The effect of pH on silane hydrolysis, condensation, and adsorption behavior. *Journal of Applied Polymer Science*, **2008**, 108, 1958-1968 | 2.9 | 37 |
| 75 | Lignins as macromonomers for polyurethane synthesis: A comparative study on hydroxyl group determination. *Journal of Applied Polymer Science*, **2008**, 109, 3008-3017 | 2.9 | 108 |
| 74 | Surface esterification of cellulose fibres: Processing and characterisation of low-density polyethylene/cellulose fibres composites. *Composites Science and Technology*, **2008**, 68, 193-201 | 8.6 | 110 |
| 73 | Surface functionalization of cellulose fibres and their incorporation in renewable polymeric matrices. *Composites Science and Technology*, **2008**, 68, 3193-3201 | 8.6 | 74 |
| 72 | Design, synthesis and photo-cross-linking of a new photosensitive macromonomer from tetra-branched poly(ethylene oxide)s. *European Polymer Journal*, **2008**, 44, 4092-4097 | 5.2 | 7 |
| 71 | Cellulose surface grafting with polycaprolactone by heterogeneous click-chemistry. *European Polymer Journal*, **2008**, 44, 4074-4081 | 5.2 | 80 |
| 70 | Kinetics of hydrolysis and self condensation reactions of silanes by NMR spectroscopy. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 312, 83-91 | 5.1 | 167 |
| 69 | Cellulose whiskers reinforced polyvinyl alcohol copolymers nanocomposites. *European Polymer Journal*, **2008**, 44, 2489-2498 | 5.2 | 401 |
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