Sami Boufi

List of Publications by Citations

187 papers	8,668 citations	51 h-index	85 g-index
192 ext. papers	9,802 ext. citations	5.8 avg, IF	6.62 L-index

#	Paper	IF	Citations
187	Short natural-fibre reinforced polyethylene and natural rubber composites: Effect of silane coupling agents and fibres loading. *Composites Science and Technology*, **2007**, 67, 1627-1639	8.6	477
186	Nanofibrillated cellulose from TEMPO-oxidized eucalyptus fibres: Effect of the carboxyl content. *Carbohydrate Polymers*, **2011**, 84, 975-983	10.3	296
185	Nanofibrillated cellulose: surface modification and potential applications. *Colloid and Polymer Science*, **2014**, 292, 5-31	2.4	294
184	Modification of cellulosic fibres with functionalised silanes: development of surface properties. *International Journal of Adhesion and Adhesives*, **2004**, 24, 43-54	3.4	286
183	Interaction of Silane Coupling Agents with Cellulose. *Langmuir*, **2002**, 18, 3203-3208	4	235
182	Nanocellulose as a novel nanostructured adsorbent for environmental remediation: a review. *Cellulose*, **2017**, 24, 1171-1197	5.5	231
181	Starch nanoparticles formation via high power ultrasonication. *Carbohydrate Polymers*, **2013**, 92, 1625-32	10.3	176
180	Nanofibrillated cellulose as an additive in papermaking process: A review. *Carbohydrate Polymers*, **2016**, 154, 151-66	10.3	169
179	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
178	Silane adsorption onto cellulose fibers: hydrolysis and condensation reactions. *Journal of Colloid and Interface Science*, **2005**, 289, 249-61	9.3	164
177	Non-woody plants as raw materials for production of microfibrillated cellulose (MFC): A comparative study. *Industrial Crops and Products*, **2013**, 41, 250-259	5.9	156
176	Modification of cellulose fibers with functionalized silanes: Effect of the fiber treatment on the mechanical performances of cellulose thermoset composites. *Journal of Applied Polymer Science*, **2005**, 98, 974-984	2.9	152
175	Nanofibrillated cellulose from Alfa, Eucalyptus and Pine fibres: Preparation, characteristics and reinforcing potential. *Carbohydrate Polymers*, **2011**, 86, 1198-1206	10.3	143
174	NANOFIBRILLATED CELLULOSE AS PAPER ADDITIVE IN EUCALYPTUS PULPS. *BioResources*, **2012**, 7,	1.3	134
173	Studies of interactions between silane coupling agents and cellulose fibers with liquid and solid-state NMR. *Magnetic Resonance in Chemistry*, **2007**, 45, 473-83	2.1	127
172	Key role of the hemicellulose content and the cell morphology on the nanofibrillation effectiveness of cellulose pulps. *Cellulose*, **2013**, 20, 2863-2875	5.5	116
171	Adsorption of a cationic surfactant onto cellulosic fibers I. Surface charge effects. *Langmuir*, **2005**, 21, 8106-13	4	116

170	The application of the Diels-Alder reaction to polymers bearing furan moieties. 1. Reactions with maleimides. *European Polymer Journal*, **1997**, 33, 1203-1211	5.2	108
169	From paper to nanopaper: evolution of mechanical and physical properties. *Cellulose*, **2014**, 21, 2599-2609	5.5	103
168	Starch nanocrystal stabilized Pickering emulsion polymerization for nanocomposites with improved performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 8263-73	9.5	102
167	Urethanes and polyurethanes bearing furan moieties. 4. Synthesis, kinetics and characterization of linear polymers. *Macromolecules*, **1993**, 26, 6706-6717	5.5	91
166	Poly(methacylic acid-co-maleic acid) grafted nanofibrillated cellulose as a reusable novel heavy metal ions adsorbent. *Carbohydrate Polymers*, **2015**, 126, 199-207	10.3	87
165	Preparation of poly(styrene-co-hexylacrylate)/cellulose whiskers nanocomposites via miniemulsion polymerization. *Journal of Applied Polymer Science*, **2009**, 114, 2946-2955	2.9	83
164	Structural analysis, and antioxidant and antibacterial properties of chitosan-poly (vinyl alcohol) biodegradable films. *Environmental Science and Pollution Research*, **2016**, 23, 15310-20	5.1	83
163	Chitin from Agaricus bisporus: Extraction and characterization. *International Journal of Biological Macromolecules*, **2018**, 117, 1334-1342	7.9	81
162	Starch nanocrystals and starch nanoparticles from waxy maize as nanoreinforcement: A comparative study. *Carbohydrate Polymers*, **2016**, 143, 310-7	10.3	79
161	Mechanical Performance and Transparency of Nanocellulose Reinforced Polymer Nanocomposites. *Macromolecular Materials and Engineering*, **2014**, 299, 560-568	3.9	77
160	Nanocomposite films based on chitosan poly(vinyl alcohol) and silver nanoparticles with high antibacterial and antioxidant activities. *Chemical Engineering Research and Design*, **2017**, 111, 112-121	5.5	77
159	Modified cellulose fibres for adsorption of organic compound in aqueous solution. *Separation and Purification Technology*, **2006**, 52, 332-342	8.3	74
158	Hybrid systems of silver nanoparticles generated on cellulose surfaces. *Langmuir*, **2010**, 26, 1996-2001	4	71
157	Effect of the combination of biobeating and NFC on the physico-mechanical properties of paper. *Cellulose*, **2013**, 20, 1425-1435	5.5	70
156	Polymerization of pyrrole on cellulose fibres using a FeCl3 impregnation- pyrrole polymerization sequence. *Cellulose*, **2006**, 13, 725-734	5.5	69
155	Ultrasonic assisted production of starch nanoparticles: Structural characterization and mechanism of disintegration. *Ultrasonics Sonochemistry*, **2018**, 41, 327-336	8.9	68
154	Easy production of cellulose nanofibrils from corn stalk by a conventional high speed blender. *Industrial Crops and Products*, **2016**, 93, 39-47	5.9	68
153	PBAT/thermoplastic starch blends: Effect of compatibilizers on the rheological, mechanical and morphological properties. *Carbohydrate Polymers*, **2018**, 199, 51-57	10.3	68

152	Cationic nanofibrillar cellulose with high antibacterial properties. *Carbohydrate Polymers*, **2015**, 131, 224-32	10.3	68
151	Effect of silane coupling agents on the properties of pine fibers/polypropylene composites. *Journal of Applied Polymer Science*, **2007**, 103, 3706-3717	2.9	67
150	Controlled growth of Cu2O nanoparticles bound to cotton fibres. *Carbohydrate Polymers*, **2016**, 141, 229-37	10.3	63
149	Removal of organic pollutants from water by modified cellulose fibres. *Industrial Crops and Products* , **2009**, 30, 93-104	5.9	61
148	Controlled surface modification of cellulose fibers by amino derivatives using N,N?-carbonyldiimidazole as activator. *Carbohydrate Polymers*, **2009**, 77, 553-562	10.3	60
147	Optimization of the formulation of chitosan edible coatings supplemented with carotenoproteins and their use for extending strawberries postharvest life. *Food Hydrocolloids*, **2018**, 83, 375-392	10.6	58
146	Cellulose nanofibrils/polyvinyl acetate nanocomposite adhesives with improved mechanical properties. *Carbohydrate Polymers*, **2017**, 156, 64-70	10.3	58
145	Agriculture crop residues as a source for the production of nanofibrillated cellulose with low energy demand. *Cellulose*, **2014**, 21, 4247-4259	5.5	57
144	Physical immobilization of Rhizopus oryzae lipase onto cellulose substrate: activity and stability studies. *Colloids and Surfaces B: Biointerfaces*, **2008**, 66, 168-77	6	57
143	Polypropylene composites based on lignocellulosic fillers: How the filler morphology affects the composite properties. *Materials & Design*, **2015**, 65, 454-461		56
142	Biocomposites based on Alfa fibers and starch-based biopolymer. *Polymers for Advanced Technologies*, **2009**, 20, 1068-1075	3.2	55
141	Blends of PBAT with plasticized starch for packaging applications: Mechanical properties, rheological behaviour and biodegradability. *Industrial Crops and Products*, **2020**, 144, 112061	5.9	55
140	Adsorption of cationic surfactants and subsequent adsolubilization of organic compounds onto cellulose fibers. *Colloid and Polymer Science*, **2004**, 283, 344-350	2.4	53
139	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
138	Dispersion of alumina suspension using comb-like and diblock copolymers produced by RAFT polymerization of AMPS and MPEG. *Journal of Colloid and Interface Science*, **2007**, 312, 279-91	9.3	52
137	Formation of polymeric films on cellulosic surfaces by admicellar polymerization. *Cellulose*, **2001**, 8, 303-312	3.5	51
136	Olive stones flour as reinforcement in polypropylene composites: A step forward in the valorization of the solid waste from the olive oil industry. *Industrial Crops and Products*, **2015**, 72, 183-191	5.9	49
135	Cellulosic nanoparticles from alfa fibers (Stipa tenacissima): extraction procedures and reinforcement potential in polymer nanocomposites. *Cellulose*, **2012**, 19, 843-853	5.5	49

134	All-cellulose composites from unbleached hardwood kraft pulp reinforced with nanofibrillated cellulose. *Cellulose*, **2013**, 20, 2909-2921	5.5	49
133	High Solid Content Production of Nanofibrillar Cellulose via Continuous Extrusion. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2350-2359	8.3	47
132	Experimental study on dielectric relaxation in alfa fiber reinforced epoxy composites. *Journal of Applied Polymer Science*, **2007**, 106, 3631-3640	2.9	47
131	Cellulose based organogel as an adsorbent for dissolved organic compounds. *Industrial Crops and Products*, **2013**, 49, 33-42	5.9	46
130	Nanofibrillated cellulose as nanoreinforcement in Portland cement: Thermal, mechanical and microstructural properties. *Journal of Composite Materials*, **2017**, 51, 2491-2503	2.7	46
129	PP composites based on mechanical pulp, deinked newspaper and jute strands: A comparative study. *Composites Part B: Engineering*, **2012**, 43, 3453-3461	10	46
128	Composites from poly(lactic acid) and bleached chemical fibres: Thermal properties. *Composites Part B: Engineering*, **2018**, 134, 169-176	10	44
127	In situ photochemical generation of silver and gold nanoparticles on chitosan. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 439, 151-158	5.1	44
126	Sorption potential of modified nanocrystals for the removal of aromatic organic pollutant from aqueous solution. *Industrial Crops and Products*, **2011**, 33, 350-357	5.9	44
125	Chitosan-Ag-TiO films: An effective photocatalyst under visible light. *Carbohydrate Polymers*, **2018**, 199, 31-40	10.3	44
124	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
123	Nanofibrillar cellulose from Posidonia oceanica: Properties and morphological features. *Industrial Crops and Products*, **2015**, 72, 97-106	5.9	41
122	Polyesters bearing furan moieties, 2. A detailed investigation of the polytransesterification of difuranic diesters with different diols. *Macromolecular Chemistry and Physics*, **1998**, 199, 2755-2765	2.6	41
121	Determination of trace heavy metal ions by anodic stripping voltammetry using nanofibrillated cellulose modified electrode. *Journal of Electroanalytical Chemistry*, **2017**, 799, 70-77	4.1	40
120	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
119	Enzymatically hydrolyzed and TEMPO-oxidized cellulose nanofibers for the production of nanopapers: morphological, optical, thermal and mechanical properties. *Cellulose*, **2017**, 24, 3943-3954	5.5	40
118	Synthesis and properties of hybrid alkyd–acrylic dispersions and their use in VOC-free waterborne coatings. *Progress in Organic Coatings*, **2014**, 77, 757-764	4.8	40
117	Melt rheology of nanocomposites based on acrylic copolymer and cellulose whiskers. *Composites Science and Technology*, **2011**, 71, 818-827	8.6	40

116	Alumina interaction with AMPS-MPEG random copolymers I. Adsorption and electrokinetic behavior. *Journal of Colloid and Interface Science*, **2003**, 261, 264-72	9.3	40
115	Dispersion of Al2O3 suspension with acrylic copolymers bearing carboxylic groups. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2003**, 212, 271-283	5.1	40
114	Surfactant-free emulsion Pickering polymerization stabilized by aldehyde-functionalized cellulose nanocrystals. *Carbohydrate Polymers*, **2018**, 202, 621-630	10.3	40
113	Composite materials from unsaturated polyester resin and olive nuts residue: The effect of silane treatment. *Industrial Crops and Products*, **2014**, 62, 491-498	5.9	39
112	Triticale crop residue: a cheap material for high performance nanofibrillated cellulose. *RSC Advances*, **2015**, 5, 3141-3151	3.7	38
111	Modified cellulose fibres for adsorption of dissolved organic solutes. *Cellulose*, **2006**, 13, 81-94	5.5	38
110	Polyesters bearing furan moieties. *Polymer Bulletin*, **1996**, 37, 589-596	2.4	38
109	Phthalocyanine/chitosan-TiO2 photocatalysts: Characterization and photocatalytic activity. *Applied Surface Science*, **2015**, 339, 128-136	6.7	37
108	Starch nanoparticles produced via ultrasonication as a sustainable stabilizer in Pickering emulsion polymerization. *RSC Advances*, **2014**, 4, 42638-42646	3.7	37
107	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
106	Urethanes and polyurethanes bearing furan moieties: 5. Thermoplastic elastomers based on sequenced structures. *Polymer*, **1995**, 36, 1689-1696	3.9	37
105	Thermoplasticized starch modified by reactive blending with epoxidized soybean oil. *Industrial Crops and Products*, **2014**, 53, 261-267	5.9	35
104	Effect of copolymer dispersant structure on the properties of alumina suspensions. *Journal of the European Ceramic Society*, **2003**, 23, 905-911	6	35
103	Remarkable increase of paper strength by combining enzymatic cellulose nanofibers in bulk and TEMPO-oxidized nanofibers as coating. *Cellulose*, **2016**, 23, 3939-3950	5.5	35
102	Cationic cellulose nanofibrils as a green support of palladium nanoparticles: catalyst evaluation in Suzuki reactions. *Cellulose*, **2018**, 25, 6963-6975	5.5	35
101	Flexural properties of fully biodegradable alpha-grass fibers reinforced starch-based thermoplastics. *Composites Part B: Engineering*, **2015**, 81, 98-106	10	34
100	Microporous cationic nanofibrillar cellulose aerogel as promising adsorbent of acid dyes. *Cellulose*, **2017**, 24, 1001-1015	5.5	33
99	Interaction of cationic and anionic polyelectrolyte with SiO2 and Al2O3 powders. *Journal of the European Ceramic Society*, **2002**, 22, 1493-1500	6	33

98	Adsorption of organic compounds onto polyelectrolyte immobilized-surfactant aggregates on cellulosic fibers. *Journal of Colloid and Interface Science*, **2004**, 280, 350-8	9.3	32
97	A one-step miniemulsion polymerization route towards the synthesis of nanocrystal reinforced acrylic nanocomposites. *Soft Matter*, **2013**, 9, 1975-1984	3.6	31
96	Facile functionalization of cotton with nanostructured silver/titania for visible-light plasmonic photocatalysis. *Journal of Colloid and Interface Science*, **2017**, 507, 83-94	9.3	31
95	Morphology of the nanocellulose produced by periodate oxidation and reductive treatment of cellulose fibers. *Cellulose*, **2018**, 25, 3899-3911	5.5	31
94	Poly (acrylic acid-co-acrylamide)/cellulose nanofibrils nanocomposite hydrogels: effects of CNFs content on the hydrogel properties. *Cellulose*, **2016**, 23, 3691-3701	5.5	30
93	Cellulose nanocrystal as ecofriendly stabilizer for emulsion polymerization and its application for waterborne adhesive. *Carbohydrate Polymers*, **2020**, 229, 115504	10.3	29
92	Novel, multifunctional mucilage composite films incorporated with cellulose nanofibers. *Food Hydrocolloids*, **2019**, 89, 20-28	10.6	29
91	Surface functionalisation of cellulose with noble metals nanoparticles through a selective nucleation. *Carbohydrate Polymers*, **2011**, 86, 1586-1594	10.3	28
90	Self-aggregation of cationic surfactants onto oxidized cellulose fibers and coadsorption of organic compounds. *Langmuir*, **2007**, 23, 3723-31	4	28
89	In situ generation of TiO2 nanoparticles using chitosan as a template and their photocatalytic activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 321, 211-222	4.7	27
88	Grafting of porphyrins on cellulose nanometric films. *Langmuir*, **2008**, 24, 7309-15	4	27
87	New hybrid films based on cellulose and hydroxygallium phthalocyanine. Synergetic effects in the structure and properties. *Langmuir*, **2007**, 23, 3712-22	4	27
86	Adsorption of octadecyltrimethylammonium chloride and adsolubilization on to cellulosic fibers. *Colloid and Polymer Science*, **2004**, 282, 699-707	2.4	27
85	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
84	Effect of the interface treatment on the dielectric behavior of composite materials of unsaturated polyester reinforced by Alfa fiber. *Journal of Non-Crystalline Solids*, **2010**, 356, 684-687	3.9	26
83	Alumina interaction with AMPS-MPEG copolymers produced by RAFT polymerization: stability and rheological behavior. *Journal of Colloid and Interface Science*, **2009**, 333, 209-20	9.3	25
82	Li-doped nanosized TiO2 powder with enhanced photocalatylic acivity under sunlight irradiation. *Applied Organometallic Chemistry*, **2010**, 24, 692-699	3.1	25
81	A one step route synthesis of polyurethane newtwork from epoxidized rapeseed oil. *Progress in Organic Coatings*, **2017**, 105, 48-55	4.8	24

80	Production of novel chia-mucilage nanocomposite films with starch nanocrystals; An inclusive biological and physicochemical perspective. *International Journal of Biological Macromolecules*, **2019**, 133, 663-673	7.9	24
79	One-step processing of plasticized starch/cellulose nanofibrils nanocomposites via twin-screw extrusion of starch and cellulose fibers. *Carbohydrate Polymers*, **2020**, 229, 115554	10.3	23
78	Conception of active food packaging films based on crab chitosan and gelatin enriched with crustacean protein hydrolysates with improved functional and biological properties. *Food Hydrocolloids*, **2021**, 116, 106639	10.6	22
77	Effects of extraction procedures and plasticizer concentration on the optical, thermal, structural and antioxidant properties of novel ulvan films. *International Journal of Biological Macromolecules*, **2019**, 135, 647-658	7.9	21
76	Molecular dynamics of poly(vinyl alcohol)/cellulose nanofibrils nanocomposites highlighted by dielectric relaxation spectroscopy. *Composites Part A: Applied Science and Manufacturing*, **2019**, 124, 105465	8.4	20
75	Cotton functionalized with nanostructured TiO-Ag-AgBr layer for solar photocatalytic degradation of dyes and toxic organophosphates. *International Journal of Biological Macromolecules*, **2019**, 128, 902-910	7.9	19
74	Waterborne hybrid alkyd–acrylic dispersion: Optimization of the composition using mixture experimental designs. *Progress in Organic Coatings*, **2015**, 87, 222-231	4.8	19
73	Hybrid cotton–anatase prepared under mild conditions with high photocatalytic activity under sunlight. *RSC Advances*, **2016**, 6, 58957-58969	3.7	19
72	Alumina interaction with AMPS-PEG random copolymer. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 253, 145-153	5.1	19
71	Impact of TEMPO-oxidization strength on the properties of cellulose nanofibril reinforced polyvinyl acetate nanocomposites. *Carbohydrate Polymers*, **2018**, 181, 1061-1070	10.3	19
70	CNFs from twin screw extrusion and high pressure homogenization: A comparative study. *Carbohydrate Polymers*, **2018**, 195, 321-328	10.3	18
69	Hybrid nanocellulose decorated with silver nanoparticles as reinforcing filler with antibacterial properties. *Materials Science and Engineering C*, **2019**, 105, 110044	8.3	18
68	Polyvinyl chloride composites filled with olive stone flour: Mechanical, thermal, and water absorption properties. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	18
67	Highly transparent nancomposite films based on polybutylmethacrylate and functionalized cellulose nanocrystals. *Cellulose*, **2013**, 20, 1711-1723	5.5	17
66	Evaluation of the fibrillation method on lignocellulosic nanofibers production from eucalyptus sawdust: A comparative study between high-pressure homogenization and grinding. *International Journal of Biological Macromolecules*, **2020**, 145, 1199-1207	7.9	17
65	TiO2-CdS Nanocomposites: Effect of CdS Oxidation on the Photocatalytic Activity. *Journal of Nanomaterials*, **2016**, 2016, 1-11	3.2	17
64	Smart ulvan films responsive to stimuli of plasticizer and extraction condition in physico-chemical, optical, barrier and mechanical properties. *International Journal of Biological Macromolecules*, **2020**, 150, 714-726	7.9	16
63	Dielectric properties of nanocomposites based on cellulose nanocrystals (CNCs) and poly(styrene-co-2-ethyl hexylacrylate) copolymer. *Polymer*, **2017**, 125, 76-89	3.9	16

62	Chemical Modification of Semiconductor Surfaces by Means of Nanometric Cellulose Films. *Journal of Physical Chemistry C*, **2007**, 111, 12792-12803	3.8	16
61	Alumina interaction with AMPS-MPEG random copolymers III. Effect of PEG segment length on adsorption, electrokinetic and rheological behavior. *Journal of Colloid and Interface Science*, **2006**, 298, 238-47	9.3	16
60	Polyesters bearing furan moieties. Part 3. A kinetic study of the transesterification of 2-furoates as a model reaction for the corresponding polycondensations. *Polymer International*, **1999**, 48, 649-659	3.3	16
59	Chitin nanocrystals as Pickering stabilizer for O/W emulsions: Effect of the oil chemical structure on the emulsion properties. *Colloids and Surfaces B: Biointerfaces*, **2021**, 200, 111604	6	16
58	Suitability of chitosan nanoparticles as cryoprotectant on shelf life of restructured fish surimi during chilled storage. *Cellulose*, **2019**, 26, 6825-6847	5.5	15
57	Paper-TiO2 composite: An effective photocatalyst for 2-propanol degradation in gas phase. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 350, 142-151	4.7	15
56	Functionalization of cotton fabrics with plasmonic photo-active nanostructured Au-TiO layer. *Carbohydrate Polymers*, **2017**, 176, 336-344	10.3	15
55	Ultrasonic effect on the photocatalytic degradation of Rhodamine 6G (Rh6G) dye by cotton fabrics loaded with TiO2. *Cellulose*, **2020**, 27, 1085-1097	5.5	15
54	Effect of the Fiber Treatment on the Stiffness of Date Palm Fiber Reinforced PP Composites: Macro and Micromechanical Evaluation of the Young's Modulus. *Polymers*, **2020**, 12,	4.5	14
53	Hybrid chitosan-TiO/ZnS prepared under mild conditions with visible-light driven photocatalytic activity. *International Journal of Biological Macromolecules*, **2018**, 116, 1098-1104	7.9	14
52	Waterborne acrylic□ellulose nanofibrils nanocomposite latexes via miniemulsion polymerization. *Progress in Organic Coatings*, **2017**, 109, 30-37	4.8	13
51	Reinforcing potential of nanofibrillated cellulose from nonwoody plants. *Polymer Composites*, **2013**, 34, 1999-2007	3	13
50	Paper Functionalized with Nanostructured TiO/AgBr: Photocatalytic Degradation of 2-Propanol under Solar Light Irradiation and Antibacterial Activity. *Nanomaterials*, **2020**, 10,	5.4	12
49	Hybrid paper□TiO2 coupled with a Cu2O heterojunction: an efficient photocatalyst under sun-light irradiation. *RSC Advances*, **2016**, 6, 86918-86929	3.7	12
48	Porous material from cellulose nanofibrils coated with aluminum hydroxyde as an effective adsorbent for fluoride. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103779	6.8	11
47	Li□N doped and codoped TiO 2 thin films deposited by dip-coating: Characterization and photocatalytic activity under halogen lamp. *Applied Surface Science*, **2014**, 314, 910-918	6.7	11
46	Enzymatic Refining and Cellulose Nanofiber Addition in Papermaking Processes from Recycled and Deinked Slurries. *BioResources*, **2015**, 10,	1.3	11
45	AgCl/Ag functionalized cotton fabric: An effective plasmonic hybrid material for water disinfection under sunlight. *Solar Energy*, **2019**, 183, 653-664	6.8	10

44	Vinyltriethoxysilane-functionalized starch nanocrystals as Pickering stabilizer in emulsion polymerization of acrylic monomers. Application in nanocomposites and pressure-sensitive adhesives. *Journal of Colloid and Interface Science*, **2020**, 578, 533-546	9.3	10
43	Cellulose nanofibrils (CNFs) from Ammophila arenaria, a natural and a fast growing grass plant. *International Journal of Biological Macromolecules*, **2018**, 107, 530-536	7.9	10
42	Ion reduction in metallic nanoparticles nucleation and growth on cellulose films: Does substrate play a role?. *Cellulose*, **2015**, 22, 173-186	5.5	9
41	Nanocellulose **2017**, 277-304		9
40	Preparation and properties of biocomposites based on jute fibers and blend of plasticized starch and poly(□hydroxybutyrate). *Journal of Applied Polymer Science*, **2009**, 114, 313-321	2.9	9
39	2-Furyloxiranes III. Chain Extension with Different Polyols. *Polymer Journal*, **1997**, 29, 479-486	2.7	9
38	Cellulose nanofibrils prepared by twin-screw extrusion: Effect of the fiber pretreatment on the fibrillation efficiency. *Carbohydrate Polymers*, **2020**, 240, 116342	10.3	8
37	High-Yield Lignocellulosic Fibers from Date Palm Biomass as Reinforcement in Polypropylene Composites: Effect of Fiber Treatment on Composite Properties. *Polymers*, **2020**, 12,	4.5	8
36	Agricultural crop residue as a source for the production of cellulose nanofibrils **2017**, 129-152		8
35	Rheological behavior of nanofibrillated cellulose/acrylic polymer nanocomposites: Effect of melt extrusion. *Polymer Composites*, **2011**, 32, 2070-2075	3	8
34	Cotton fibres functionalized with plasmonic nanoparticles to promote the destruction of harmful molecules: an overview. *Nanotechnology Reviews*, **2019**, 8, 671-680	6.3	8
33	TiO/AgO immobilized on cellulose paper: A new floating system for enhanced photocatalytic and antibacterial activities. *Environmental Research*, **2021**, 198, 111257	7.9	8
32	Cellulose nanofibrils reinforced PBAT/TPS blends: Mechanical and rheological properties. *International Journal of Biological Macromolecules*, **2021**, 183, 267-275	7.9	8
31	Electron beam irradiation in natural fibres reinforced polymers (NFRP). *Nuclear Instruments & Methods in Physics Research B*, **2008**, 266, 4742-4748	1.2	7
30	Nanocellulose as a Millennium Material with Enhancing Adsorption Capacities **2016**, 349-383		6
29	Modified biopolymer adsorbent for the removal of dissolved organic pollutants. *International Journal of Environmental Technology and Management*, **2010**, 12, 163	0.6	6
28	Cotton decorated with CuO-Ag and CuO-Ag-AgBr NPs via an in-situ sacrificial template approach and their antibacterial efficiency. *Colloids and Surfaces B: Biointerfaces*, **2021**, 200, 111600	6	6
27	Cellulose films: designing template-free nanoporous cellulose films on semiconducting surfaces. *Microscopy and Microanalysis*, **2015**, 21, 102-7	0.5	5

26	Surfactant-free waterborne hybrid alkyd–acrylic dispersion: Synthesis, properties and long term stability. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 3631-3638	6.3	5
25	Ultrasound Assisted Synthesis of Starch Nanocrystals and Its Applications with Polyurethane for Packaging Film. *Journal of Renewable Materials*, **2020**, 8, 239-250	2.4	5
24	Preparation and properties of starch-based biopolymers modified with difunctional isocyanates. *BioResources*, **2011**, 6, 81-102	1.3	5
23	Valorization of Date Palm Waste for Plastic Reinforcement: Macro and Micromechanics of Flexural Strength. *Polymers*, **2021**, 13,	4.5	5
22	Molecular dynamics of poly(styrene-co-2-ethyl hexylacrylate) copolymer/cellulose nanocrystals nanocomposites investigated by dielectric relaxation spectroscopy: Effect of the silane content. *Journal of Molecular Liquids*, **2016**, 224, 515-525	6	5
21	Structural, Morphological, Optical and Photocatalytic Properties of Y, N-Doped and Codoped TiO Thin Films. *Materials*, **2017**, 10,	3.5	4
20	Modified Cellulose Fibres as a Biosorbent for the Organic Pollutants **2011**, 483-524		4
19	Functionalization of cotton fibers with hierarchical flower-like Na2Ti3O7/Ag layer. *Cellulose*, **2020**, 27, 2887-2899	5.5	4
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