Pere MutjÃ© Pujol

List of Publications by Year
in descending order

186 papers	7,343 citations	38742 50 h-index	79698 73 g-index
187 all docs	187 docs citations	187 times ranked	5335 citing authors

#	Article	IF	Citations
1	Nanofibrillated cellulose as an additive in papermaking process: A review. Carbohydrate Polymers, 2016, 154, 151-166.	10.2	205
2	Chemical modification of jute fibers for the production of green-composites. Journal of Hazardous Materials, 2007, 144, 730-735.	12.4	197
3	Non-woody plants as raw materials for production of microfibrillated cellulose (MFC): A comparative study. Industrial Crops and Products, 2013, 41, 250-259.	5.2	189
4	NANOFIBRILLATED CELLULOSE AS PAPER ADDITIVE IN EUCALYPTUS PULPS. BioResources, 2012, 7, .	1.0	155
5	Natural fiber-reinforced thermoplastic starch composites obtained by melt processing. Composites Science and Technology, 2012, 72, 858-863.	7.8	155
6	Composite materials derived from biodegradable starch polymer and jute strands. Process Biochemistry, 2007, 42, 329-334.	3.7	142
7	Key role of the hemicellulose content and the cell morphology on the nanofibrillation effectiveness of cellulose pulps. Cellulose, 2013, 20, 2863-2875.	4.9	142
8	Blends of PBAT with plasticized starch for packaging applications: Mechanical properties, rheological behaviour and biodegradability. Industrial Crops and Products, 2020, 144, 112061.	5.2	135
9	Biocomposites from abaca strands and polypropylene. Part I: Evaluation of the tensile properties. Bioresource Technology, 2010, 101, 387-395.	9.6	124
10	PBAT/thermoplastic starch blends: Effect of compatibilizers on the rheological, mechanical and morphological properties. Carbohydrate Polymers, 2018, 199, 51-57.	10.2	121
11	From paper to nanopaper: evolution of mechanical and physical properties. Cellulose, 2014, 21, 2599-2609.	4.9	118
12	Lignin/poly(butylene succinate) composites with antioxidant and antibacterial properties for potential biomedical applications. International Journal of Biological Macromolecules, 2020, 145, 92-99.	7.5	116
13	Suitability of wheat straw semichemical pulp for the fabrication of lignocellulosic nanofibres and their application to papermaking slurries. Cellulose, 2016, 23, 837-852.	4.9	103
14	The key role of lignin in the production of low-cost lignocellulosic nanofibres for papermaking applications. Industrial Crops and Products, 2016, 86, 295-300.	5.2	101
15	Effect of maleated polypropylene as coupling agent for polypropylene composites reinforced with hemp strands. Journal of Applied Polymer Science, 2006, 102, 833-840.	2.6	98
16	Influence of coupling agents in the preparation of polypropylene composites reinforced with recycled fibers. Chemical Engineering Journal, 2011, 166, 1170-1178.	12.7	95
17	Full exploitation of Cannabis sativa as reinforcement/filler of thermoplastic composite materials. Composites Part A: Applied Science and Manufacturing, 2007, 38, 369-377.	7.6	89
18	Improvement of deinked old newspaper/old magazine pulp suspensions by means of nanofibrillated cellulose addition. Cellulose, 2015, 22, 789-802.	4.9	88

#	Article	IF	Citations
19	Nanofibrillated cellulose (CNF) from eucalyptus sawdust as a dry strength agent of unrefined eucalyptus handsheets. Carbohydrate Polymers, 2016, 139, 99-105.	10.2	85
20	Effect of silane coupling agents on the properties of pine fibers/polypropylene composites. Journal of Applied Polymer Science, 2007, 103, 3706-3717.	2.6	77
21	Effect of the combination of biobeating and NFC on the physico-mechanical properties of paper. Cellulose, 2013, 20, 1425-1435.	4.9	76
22	Reducing the Amount of Catalyst in TEMPO-Oxidized Cellulose Nanofibers: Effect on Properties and Cost. Polymers, 2017, 9, 557.	4.5	76
23	Micromechanics of hemp strands in polypropylene composites. Composites Science and Technology, 2012, 72, 1209-1213.	7.8	75
24	Blocked isocyanates as coupling agents for cellulose-based composites. Carbohydrate Polymers, 2007, 68, 537-543.	10.2	73
25	On the morphology of cellulose nanofibrils obtained by TEMPO-mediated oxidation and mechanical treatment. Micron, 2015, 72, 28-33.	2.2	72
26	Use of cellulose fibers from hemp core in fiber-cement production. Effect on flocculation, retention, drainage and product properties. Industrial Crops and Products, 2012, 39, 89-96.	5.2	71
27	Biocomposites from Musa textilis and polypropylene: Evaluation of flexural properties and impact strength. Composites Science and Technology, 2011, 71, 122-128.	7.8	70
28	Biocomposites based on <i>Alfa</i> fibers and starchâ€based biopolymer. Polymers for Advanced Technologies, 2009, 20, 1068-1075.	3.2	68
29	Polypropylene composites based on lignocellulosic fillers: How the filler morphology affects the composite properties. Materials & Design, 2015, 65, 454-461.	5.1	68
30	Estimation of the interfacial shears strength, orientation factor and mean equivalent intrinsic tensile strength in old newspaper fiber/polypropylene composites. Composites Part B: Engineering, 2013, 50, 232-238.	12.0	66
31	Approaching a Low-Cost Production of Cellulose Nanofibers for Papermaking Applications. BioResources, 2015, 10, .	1.0	66
32	Agriculture crop residues as a source for the production of nanofibrillated cellulose with low energy demand. Cellulose, 2014, 21, 4247-4259.	4.9	65
33	All-lignocellulosic fiberboard from corn biomass and cellulose nanofibers. Industrial Crops and Products, 2015, 76, 166-173.	5.2	64
34	The feasibility of incorporating cellulose micro/nanofibers in papermaking processes: the relevance of enzymatic hydrolysis. Cellulose, 2016, 23, 1433-1445.	4.9	64
35	Lignocellulosic nanofibers from triticale straw: The influence of hemicelluloses and lignin in their production and properties. Carbohydrate Polymers, 2017, 163, 20-27.	10.2	64
36	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.	5.2	63

#	Article	IF	Citations
37	Enzymatically hydrolyzed and TEMPO-oxidized cellulose nanofibers for the production of nanopapers: morphological, optical, thermal and mechanical properties. Cellulose, 2017, 24, 3943-3954.	4.9	63
38	Evaluation of the reinforcing effect of ground wood pulp in the preparation of polypropylene-based composites coupled with maleic anhydride grafted polypropylene. Journal of Applied Polymer Science, 2007, 105, 3588-3596.	2.6	61
39	Behavior of biocomposite materials from flax strands and starch-based biopolymer. Chemical Engineering Science, 2009, 64, 2651-2658.	3.8	61
40	Are Cellulose Nanofibers a Solution for a More Circular Economy of Paper Products?. Environmental Science & Technology, 2015, 49, 12206-12213.	10.0	61
41	Study on the technical feasibility of replacing glass fibers by old newspaper recycled fibers as polypropylene reinforcement. Journal of Cleaner Production, 2014, 65, 489-496.	9.3	60
42	ACOUSTIC PROPERTIES OF POLYPROPYLENE COMPOSITES REINFORCED WITH STONE GROUNDWOOD. BioResources, 2012, 7, .	1.0	58
43	All-cellulose composites from unbleached hardwood kraft pulp reinforced with nanofibrillated cellulose. Cellulose, 2013, 20, 2909-2921.	4.9	57
44	Approaching a new generation of fiberboards taking advantage of self lignin as green adhesive. International Journal of Biological Macromolecules, 2018, 108, 927-935.	7.5	56
45	Towards a good interphase between bleached kraft softwood fibers and poly(lactic) acid. Composites Part B: Engineering, 2016, 99, 514-520.	12.0	54
46	PP composites based on mechanical pulp, deinked newspaper and jute strands: A comparative study. Composites Part B: Engineering, 2012, 43, 3453-3461.	12.0	53
47	Mechanical and micromechanical tensile strength of eucalyptus bleached fibers reinforced polyoxymethylene composites. Composites Part B: Engineering, 2017, 116, 333-339.	12.0	53
48	Signal enhancement on gold nanoparticle-based lateral flow tests using cellulose nanofibers. Biosensors and Bioelectronics, 2019, 141, 111407.	10.1	53
49	Blocked diisocyanates as reactive coupling agents: Application to pine fiberâ€“polypropylene composites. Carbohydrate Polymers, 2008, 74, 106-113.	10.2	52
50	Analysis of tensile and flexural modulus in hemp strands/polypropylene composites. Composites Part B: Engineering, 2013, 47, 339-343.	12.0	52
51	Mechanical and chemical dispersion of nanocelluloses to improve their reinforcing effect on recycled paper. Cellulose, 2018, 25, 269-280.	4.9	52
52	TEMPO-Oxidized Cellulose Nanofibers: A Potential Bio-Based Superabsorbent for Diaper Production. Nanomaterials, 2019, 9, 1271.	4.1	52
53	Research on the use of lignocellulosic fibers reinforced bio-polyamide 11 with composites for automotive parts: Car door handle case study. Journal of Cleaner Production, 2019, 226, 64-73.	9.3	52
54	Bio composite from bleached pine fibers reinforced polylactic acid as a replacement of glass fiber reinforced polypropylene, macro and micro-mechanics of the Young's modulus. Composites Part B: Engineering, 2017, 125, 203-210.	12.0	50

#	Article	IF	Citations
55	Influence of TEMPO-oxidised cellulose nanofibrils on the properties of filler-containing papers. Cellulose, 2017, 24, 349-362.	4.9	49
56	Thermoplasticized starch modified by reactive blending with epoxidized soybean oil. Industrial Crops and Products, 2014, 53, 261-267.	5.2	48
57	The suitability of banana leaf residue as raw material for the production of high lignin content micro/nano fibers: From residue to value-added products. Industrial Crops and Products, 2017, 99, 27-33.	5.2	48
58	Refining of bleached cellulosic pulps: characterization by application of the colloidal titration technique. Wood Science and Technology, 1996, 30, 227.	3.2	47
59	TEMPO-oxidized cellulose nanofibers as potential Cu(II) adsorbent for wastewater treatment. Cellulose, 2019, 26, 903-916.	4.9	45
60	Semichemical fibres of Leucaena collinsii reinforced polypropylene: Macromechanical and micromechanical analysis. Composites Part B: Engineering, 2016, 91, 384-391.	12.0	44
61	Semichemical fibres of Leucaena collinsii reinforced polypropylene composites: Young's modulus analysis and fibre diameter effect on the stiffness. Composites Part B: Engineering, 2016, 92, 332-337.	12.0	44
62	Upgrading of hemp core for papermaking purposes by means of organosolv process. Industrial Crops and Products, 2011, 34, 865-872.	5.2	43
63	Macro and micromechanics analysis of short fiber composites stiffness: The case of old newspaper fibersâ€“polypropylene composites. Materials & Design, 2014, 55, 319-324.	5.1	43
64	Oxidative treatments for cellulose nanofibers production: a comparative study between TEMPO-mediated and ammonium persulfate oxidation. Cellulose, 2020, 27, 10671-10688.	4.9	43
65	Newspaper fiber-reinforced thermoplastic starch biocomposites obtained by melt processing: Evaluation of the mechanical, thermal and water sorption properties. Industrial Crops and Products, 2013, 44, 300-305.	5.2	42
66	Enzymic deinking of old newspapers with cellulase. Process Biochemistry, 2003, 38, 1063-1067.	3.7	41
67	Soda-Treated Sisal/Polypropylene Composites. Journal of Polymers and the Environment, 2008, 16, 35-39.	5.0	41
68	Flexural properties of fully biodegradable alpha-grass fibers reinforced starch-based thermoplastics. Composites Part B: Engineering, 2015, 81, 98-106.	12.0	41
69	Cu-coated cellulose nanopaper for green and low-cost electronics. Cellulose, 2016, 23, 1997-2010.	4.9	41
70	Macro and micro-mechanics behavior of stifness in alkaline treated hemp core fibres polypropylene-based composites. Composites Part B: Engineering, 2018, 144, 118-125.	12.0	40
71	Interface and micromechanical characterization of tensile strength of bio-based composites from polypropylene and henequen strands. Industrial Crops and Products, 2019, 132, 319-326.	5.2	40
72	Hemp Strands as Reinforcement of Polystyrene Composites. Chemical Engineering Research and Design, 2004, 82, 1425-1431.	5.6	37

#	Article	IF	Citations
73	Hemp Strands: PP Composites by Injection Molding: Effect of Low Cost Physico-chemical Treatments. Journal of Reinforced Plastics and Composites, 2006, 25, 313-327.	3.1	37
74	Modeling of the tensile moduli of mechanical, thermomechanical, and chemiâ€thermomechanical pulps from orange tree pruning. Polymer Composites, 2013, 34, 1840-1846.	4.6	37
75	Micromechanics of Mechanical, Thermomechanical, and Chemi-Thermomechanical Pulp from Orange Tree Pruning as Polypropylene Reinforcement: A Comparative Study. BioResources, 2013, 8, .	1.0	37
76	Acoustic properties of agroforestry waste orange pruning fibers reinforced polypropylene composites as an alternative to laminated gypsum boards. Construction and Building Materials, 2015, 77, 124-129.	7.2	37
77	Fiberboards Made from Corn Stalk Thermomechanical Pulp and Kraft Lignin as a Green Adhesive. BioResources, 2017, 12, .	1.0	37
78	MANAGEMENT OF CORN STALK WASTE AS REINFORCEMENT FOR POLYPROPYLENE INJECTION MOULDED COMPOSITES. BioResources, 2012, 7, .	1.0	36
79	Processing and properties of biodegradable composites based on Mater-BiÂ® and hemp core fibres. Resources, Conservation and Recycling, 2012, 59, 38-42.	10.8	36
80	Effective and simple methodology to produce nanocellulose-based aerogels for selective oil removal. Cellulose, 2016, 23, 3077-3088.	4.9	36
81	The role of lignin on the mechanical performance of polylactic acid and jute composites. International Journal of Biological Macromolecules, 2018, 116, 299-304.	7.5	36
82	Predicting flotation efficiency using neural networks. Chemical Engineering and Processing: Process Intensification, 2007, 46, 314-322.	3.6	35
83	Stiffness of bio-based polyamide 11 reinforced with softwood stone ground-wood fibres as an alternative to polypropylene-glass fibre composites. European Polymer Journal, 2016, 84, 481-489.	5.4	35
84	Cellulose nanofibrils reinforced PBAT/TPS blends: Mechanical and rheological properties. International Journal of Biological Macromolecules, 2021, 183, 267-275.	7.5	34
85	Correlation between the cellulose fibres beating and the fixation of a soluble cationic polymer. British Polymer Journal, 1984, 16, 83-86.	0.7	33
86	Impact and flexural properties of stoneâ€ground wood pulpâ€reinforced polypropylene composites. Polymer Composites, 2013, 34, 842-848.	4.6	33
87	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.	7.5	32
88	Valorization of Corn Stalk by the Production of Cellulose Nanofibers to Improve Recycled Paper Properties. BioResources, 2016, 11, .	1.0	31
89	Recycling dyed cotton textile byproduct fibers as polypropylene reinforcement. Textile Reseach Journal, 2019, 89, 2113-2125.	2.2	31
90	Critical comparison of the properties of cellulose nanofibers produced from softwood and hardwood through enzymatic, chemical and mechanical processes. International Journal of Biological Macromolecules, 2022, 205, 220-230.	7.5	31

#	Article	IF	Citations
91	Recovered and recycled Kraft fibers as reinforcement of PP composites. Chemical Engineering Journal, 2008, 138, 586-595.	12.7	30
92	Effect of Sodium Hydroxide Treatments on the Tensile Strength and the Interphase Quality of Hemp Core Fiber-Reinforced Polypropylene Composites. Polymers, 2017, 9, 377.	4.5	29
93	A comparative study of the effect of refining on organosolv pulp from olive trimmings and kraft pulp from eucalyptus wood. Bioresource Technology, 2005, 96, 1125-1129.	9.6	28
94	Tuning morphology and structure of non-woody nanocellulose: Ranging between nanofibers and nanocrystals. Industrial Crops and Products, 2021, 171, 113877.	5.2	28
95	Biobased Composites from Biobased-Polyethylene and Barley Thermomechanical Fibers: Micromechanics of Composites. Materials, 2019, 12, 4182.	2.9	27
96	Tensile Properties of Polypropylene Composites Reinforced with Mechanical, Thermomechanical, and Chemi-Thermomechanical Pulps from Orange Pruning. BioResources, 2015, 10, .	1.0	27
97	Allocation of GHG emissions in combined heat and power systems: a new proposal for considering inefficiencies of the system. Journal of Cleaner Production, 2011, 19, 1072-1079.	9.3	26
98	Evaluation of Thermal and Thermomechanical Behaviour of Bio-Based Polyamide 11 Based Composites Reinforced with Lignocellulosic Fibres. Polymers, 2017, 9, 522.	4.5	26
99	Cellulose nanofibers from residues to improve linting and mechanical properties of recycled paper. Cellulose, 2018, 25, 1339-1351.	4.9	25
100	Semichemical fibres of Leucaena collinsii reinforced polypropylene composites: Flexural characterisation, impact behaviour and water uptake properties. Composites Part B: Engineering, 2016, 97, 176-182.	12.0	24
101	Determination of Mean Intrinsic Flexural Strength and Coupling Factor of Natural Fiber Reinforcement in Polylactic Acid Biocomposites. Polymers, 2019, 11, 1736.	4.5	24
102	Development of high-performance binderless fiberboards from wheat straw residue. Construction and Building Materials, 2020, 232, 117247.	7.2	24
103	Lignin-containing cellulose fibrils as reinforcement of plasticized PLA biocomposites produced by melt processing using PEG as a carrier. Industrial Crops and Products, 2022, 175, 114287.	5.2	24
104	Polyvinyl chloride composites filled with olive stone flour: Mechanical, thermal, and water absorption properties. Journal of Applied Polymer Science, 2014, 131, .	2.6	23
105	Comparison between two different pretreatment technologies of rice straw fibers prior to fiberboard manufacturing: Twin-screw extrusion and digestion plus defibration. Industrial Crops and Products, 2017, 107, 184-197.	5.2	23
106	Influence of lignin content on the intrinsic modulus of natural fibers and on the stiffness of composite materials. International Journal of Biological Macromolecules, 2020, 155, 81-90.	7.5	23
107	Chemical-free production of lignocellulosic micro- and nanofibers from high-yield pulps: Synergies, performance, and feasibility. Journal of Cleaner Production, 2021, 313, 127914.	9.3	22
108	Study of Filler Flocculation Mechanisms and Floc Properties Induced by Polyethylenimine. Industrial & Engineering Chemistry Research, 2005, 44, 5616-5621.	3.7	21

#	Article	IF	Citations
109	Suitability of Rapeseed Chemithermomechanical Pulp as Raw Material in Papermaking. BioResources, 2013, 8, .	1.0	21
110	Magnetic bionanocomposites from cellulose nanofibers: Fast, simple and effective production method. International Journal of Biological Macromolecules, 2017, 99, 29-36.	7.5	21
111	Towards a new generation of functional fiber-based packaging: cellulose nanofibers for improved barrier, mechanical and surface properties. Cellulose, 2018, 25, 683-695.	4.9	21
112	Recycling of Paper Mill Sludge as Filler/Reinforcement in Polypropylene Composites. Journal of Polymers and the Environment, 2010, 18, 407-412.	5.0	20
113	Study on the Tensile Strength and Micromechanical Analysis of Alfa Fibers Reinforced High Density Polyethylene Composites. Fibers and Polymers, 2019, 20, 602-610.	2.1	20
114	Research on the Strengthening Advantages on Using Cellulose Nanofibers as Polyvinyl Alcohol Reinforcement. Polymers, 2020, 12, 974.	4.5	20
115	Lignocellulosic micro/nanofibers from wood sawdust applied to recycled fibers for the production of paper bags. International Journal of Biological Macromolecules, 2017, 105, 664-670.	7.5	19
116	Impact Strength and Water Uptake Behaviors of Fully Bio-Based PA11-SGW Composites. Polymers, 2018, 10, 717.	4.5	19
117	Reinforcing potential of nanofibrillated cellulose from nonwoody plants. Polymer Composites, 2013, 34, 1999-2007.	4.6	18
118	Combined effect of sodium carboxymethyl cellulose, cellulose nanofibers and drainage aids in recycled paper production process. Carbohydrate Polymers, 2018, 183, 201-206.	10.2	18
119	Towards More Sustainable Material Formulations: A Comparative Assessment of PA11-SGW Flexural Performance versus Oil-Based Composites. Polymers, 2018, 10, 440.	4.5	18
120	Explorative Study on the Use of CurauÃ¡ Reinforced Polypropylene Composites for the Automotive Industry. Materials, 2019, 12, 4185.	2.9	18
121	Enhanced Morphological Characterization of Cellulose Nano/Microfibers through Image Skeleton Analysis. Nanomaterials, 2021, 11, 2077.	4.1	18
122	Macro and micromechanical preliminary assessment of the tensile strength of particulate rapeseed sawdust reinforced polypropylene copolymer biocomposites for its use as building material. Construction and Building Materials, 2018, 168, 422-430.	7.2	17
123	Recycled fibers for fluting production: The role of lignocellulosic micro/nanofibers of banana leaves. Journal of Cleaner Production, 2018, 172, 233-238.	9.3	17
124	Correlation between rheological measurements and morphological features of lignocellulosic micro/nanofibers from different softwood sources. International Journal of Biological Macromolecules, 2021, 187, 789-799.	7.5	17
125	BIO-BASED COMPOSITES FROM STONE GROUNDWOOD APPLIED TO NEW PRODUCT DEVELOPMENT. BioResources, 2012, 7, .	1.0	17
126	Comparison of cationic demand between olive wood organosolv pulp and eucaliptus kraft pulp. Process Biochemistry, 2006, 41, 1602-1607.	3.7	16

#	Article	IF	Citations
127	Thermoplastic Starch-based Composites Reinforced with Rape Fibers: Water Uptake and Thermomechanical Properties. BioResources, 2013, 8, .	1.0	16
128	Enzymatic Refining and Cellulose Nanofiber Addition in Papermaking Processes from Recycled and Deinked Slurries. BioResources, 2015, 10, .	1.0	16
129	Effect of nanofiber addition on the physicalâ€"mechanical properties of chemimechanical pulp handsheets for packaging. Cellulose, 2020, 27, 10811-10823.	4.9	16
130	Monitoring fibrillation in the mechanical production of lignocellulosic micro/nanofibers from bleached spruce thermomechanical pulp. International Journal of Biological Macromolecules, 2021, 178, 354-362.	7.5	16
131	Chemical treatment for improving wettability of biofibres into thermoplastic matrices. Composite Interfaces, 2005, 12, 725-738.	2.3	15
132	Papermaking potential of Citrus sinensis trimmings using organosolv pulping, chlorine-free bleaching and refining. Journal of Cleaner Production, 2016, 112, 980-986.	9.3	15
133	Sugarcane Bagasse Reinforced Composites: Studies on the Youngâ€™s Modulus and Macro and Micro-Mechanics. BioResources, 2017, 12, .	1.0	15
134	Production of fiberboard from rice straw thermomechanical extrudates by thermopressing: influence of fiber morphology, water and lignin content. European Journal of Wood and Wood Products, 2019, 77, 15-32.	2.9	15
135	High Stiffness Performance Alpha-Grass Pulp Fiber Reinforced Thermoplastic Starch-Based Fully Biodegradable Composites. BioResources, 2013, 9, .	1.0	13
136	Starch-Based Biopolymer Reinforced with High Yield Fibers from Sugarcane Bagasse as a Technical and Environmentally Friendly Alternative to High Density Polyethylene. BioResources, 2016, 11, .	1.0	13
137	Immobilization of antimicrobial peptides onto cellulose nanopaper. International Journal of Biological Macromolecules, 2017, 105, 741-748.	7.5	13
138	High-Yield Lignocellulosic Fibers from Date Palm Biomass as Reinforcement in Polypropylene Composites: Effect of Fiber Treatment on Composite Properties. Polymers, 2020, 12, 1423.	4.5	13
139	Electrospray Deposition of Cellulose Nanofibers on Paper: Overcoming the Limitations of Conventional Coating. Nanomaterials, 2022, 12, 79.	4.1	13
140	Polyelectrolyte complexes for assisting the application of lignocellulosic micro/nanofibers in papermaking. Cellulose, 2018, 25, 6083-6092.	4.9	12
141	Bleached Kraft Eucalyptus Fibers as Reinforcement of Poly(Lactic Acid) for the Development of High-Performance Biocomposites. Polymers, 2018, 10, 699.	4.5	12
142	Flexural Properties and Mean Intrinsic Flexural Strength of Old Newspaper Reinforced Polypropylene Composites. Polymers, 2019, 11, 1244.	4.5	12
143	Towards the development of highly transparent, flexible and water-resistant bio-based nanopapers: tailoring physico-mechanical properties. Cellulose, 2019, 26, 6917-6932.	4.9	12
144	Impact Strength and Water Uptake Behavior of Bleached Kraft Softwood-Reinforced PLA Composites as Alternative to PP-Based Materials. Polymers, 2020, 12, 2144.	4.5	12

#	Article	IF	Citations
145	Study on the Macro and Micromechanics Tensile Strength Properties of Orange Tree Pruning Fiber as Sustainable Reinforcement on Bio-Polyethylene Compared to Oil-Derived Polymers and Its Composites. Polymers, 2020, 12, 2206.	4.5	12
146	Comparative assessment of cellulose nanofibers and calcium alginate beads for continuous Cu(II) adsorption in packed columns: the influence of water and surface hydrophobicity. Cellulose, 2021, 28, 4327-4344.	4.9	12
147	Morphological analysis of pulps from orange tree trimmings and its relation to mechanical properties. Measurement: Journal of the International Measurement Confederation, 2016, 93, 319-326.	5.0	11
148	Modeling the Stiffness of Coupled and Uncoupled Recycled Cotton Fibers Reinforced Polypropylene Composites. Polymers, 2019, 11, 1725.	4.5	11
149	STONE-GROUND WOOD PULP-REINFORCED POLYPROPYLENE COMPOSITES: WATER UPTAKE AND THERMAL PROPERTIES. BioResources, 2012, 7, .	1.0	11
150	Preparation and properties of biocomposites based on jute fibers and blend of plasticized starch and poly(Î²â€hydroxybutyrate). Journal of Applied Polymer Science, 2009, 114, 313-321.	2.6	10
151	Tensile Strength Assessment of Injection-Molded High Yield Sugarcane Bagasse-Reinforced Polypropylene. BioResources, 2016, 11, .	1.0	10
152	Cellulose polymer composites (WPC). , 2017, , 115-139.		10
153	Valorization of Hemp Core Residues: Impact of NaOH Treatment on the Flexural Strength of PP Composites and Intrinsic Flexural Strength of Hemp Core Fibers. Biomolecules, 2020, 10, 823.	4.0	10
154	Stiffening Potential of Lignocellulosic Fibers in Fully Biobased Composites: The Case of Abaca Strands, Spruce TMP Fibers, Recycled Fibers from ONP, and Barley TMP Fibers. Polymers, 2021, 13, 619.	4.5	10
155	Valorization of Date Palm Waste for Plastic Reinforcement: Macro and Micromechanics of Flexural Strength. Polymers, 2021, 13, 1751.	4.5	10
156	Potentiometric back titration as a robust and simple method for specific surface area estimation of lignocellulosic fibers. Cellulose, 2021, 28, 10815-10825.	4.9	10
157	High-Performance-Tensile-Strength Alpha-Grass Reinforced Starch-Based Fully Biodegradable Composites. BioResources, 2013, 8, .	1.0	9
158	Orange Wood Fiber Reinforced Polypropylene Composites: Thermal Properties. BioResources, 2015, 10, .	1.0	9
159	High-Yield Pulp from Brassica napus to Manufacture Packaging Paper. BioResources, 2017, 12, .	1.0	9
160	RESEARCH ON THE SUITABILITY OF ORGANOSOLV SEMI-CHEMICAL TRITICALE FIBERS AS REINFORCEMENT FOR RECYCLED HDPE COMPOSITES. BioResources, 2012, 7, .	1.0	8
161	Polypropylene reinforced with semi-chemical fibres of Leucaena collinsii : Thermal properties. Composites Part B: Engineering, 2016, 94, 75-81.	12.0	8
162	Key role of anionic trash catching system on the efficiency of lignocellulose nanofibers in industrial recycled slurries. Cellulose, 2018, 25, 357-366.	4.9	8

#	Article	IF	Citations
163	Preparation and properties of starch-based biopolymers modified with difunctional isocyanates. BioResources, 2011, 6, 81-102.	1.0	8
164	Allocation of carbon dioxide emissions from key production steps in high-grade paper mills. Tappi Journal, 2013, 12, 19-28.	0.5	8
165	Initiating ECF bleaching sequences of eucalyptus kraft pulps with Z/D and Z/E stages. Holzforschung, 2010, 64, .	1.9	7
166	The Integral Utilization of Date Palm Waste to Produce Plastic Composites. Polymers, 2021, 13, 2335.	4.5	7
167	Approaching a Zero-Waste Strategy in Rapeseed (Brassica napus) Exploitation: Sustainably Approaching Bio-Based Polyethylene Composites. Sustainability, 2022, 14, 7942.	3.2	7
168	Nanofibrillated cellulose as an additive in papermaking process. , 2017, , 153-173.		6
169	On the Path to a New Generation of Cement-Based Composites through the Use of Lignocellulosic Micro/Nanofibers. Materials, 2019, 12, 1584.	2.9	6
170	Characterization of CaCO3 Filled Poly(lactic) Acid and Bio Polyethylene Materials for Building Applications. Polymers, 2021, 13, 3323.	4.5	6
171	Bleached kraft softwood fibers reinforced polylactic acid composites, tensile and flexural strengths. , 2017, , 73-90.		5
172	Lignocellulosic nanofibers for the reinforcement of brown line paper in industrial water systems. Cellulose, 2020, 27, 10799-10809.	4.9	5
173	Biocomposites from Starch-based Biopolymer and Rape Fibers. Part II: Stiffening, Flexural and Impact Strength, and Product Development. Current Organic Chemistry, 2013, 17, 1641-1646.	1.6	5
174	Effect of enzymatic treatment (endo-glucanases) of fiber and mechanical lignocellulose nanofibers addition on physical and mechanical properties of binderless high-density fiberboards made from wheat straw. Journal of Building Engineering, 2021, 44, 103392.	3.4	4
175	Biocomposites from Starch-based Biopolymer and Rape Fibers. Part I: Interfacial Analysis and Intrinsic Properties of Rape Fibers. Current Organic Chemistry, 2013, 17, 1633-1640.	1.6	4
176	AplicaciÃ³n de celulosa nanofibrilada, en masa y superficie, a la pulpa mecÃ¡nica de muela de piedra: una sÃ³lida alternativa al tratamiento clÃ¡sico de refinado. Maderas: Ciencia Y Tecnologia, 2015, , 0-0.	0.7	3
177	Biobased polyamide reinforced with natural fiber composites. , 2021, , 141-165.		2
178	An Empirical Mathematical Model for the Predictive Analysis of the Chemical Absorption of Hydroxide in <i>Eucalyptus</i> Wood. Industrial & Engineering Chemistry Research, 2008, 47, 3856-3860.	3.7	1
179	Low environmental impact bleaching sequences for attaining high brightness level with eucalyptus SPP pulp. Brazilian Journal of Chemical Engineering, 2009, 26, 11-22.	1.3	1
180	ENCOURAGING STUDENTS TO DEVELOP THEIR OWN PROJECT THROUGH THE INCREASE OF THE NUMBER OF PRACTICAL SESSIONS. , 2016, , .		0

#	Article	IF	Citations
181	CHEMICAL ENGINEERING PROMOTION USING A DEMONSTRATION PLANT OF DEODORANT STICK PRODUCTION. , 2018, , .		0
182	A MOBIL BIODIESEL PRODUCTION PLATFORM AS A METHODOLOGY TO SHOW CHEMICAL ENGINEERING TO BACHELORS STUDENTS. , 2018, , .		0
183	PROMOTE CHEMICAL ENGINEERING THROUGH THE PRODUCTION OF POLYURETHANE FOAMS. , 2019, , .		0
184	PROJECT OF DEMONSTRATIVE EXPERIENCE OF SUSTAINABLE PROCESSES WITH HYDROPHOBIC AEROGELS OF CELLULOSE NANOFIBERS. INTED Proceedings, 2019, , .	0.0	0
185	CHEMICAL ANALYSIS APPLIED TO THE INDUSTRY: A DEMONSTRATIVE EXPERIENCE TO PROMOTE THE INTEREST FOR CHEMICAL ENGINEERING. EDULEARN Proceedings, 2019, , .	0.0	0
186	PROMOTING SUSTAINABILITY AND ETHICS IN PRODUCT DEVELOPMENT IN CHEMICAL ENGINEERING COURSES. , 2019, , .		0