Quim Tarrs

List of Publications by Citations

95 papers	1,955 citations	26 h-index	40 g-index
112 ext. papers	2,624 ext. citations	5.8 avg, IF	5.4 L-index

#	Paper	IF	Citations
95	Nanofibrillated cellulose as an additive in papermaking process: A review. *Carbohydrate Polymers*, **2016**, 154, 151-66	10.3	169
94	The key role of lignin in the production of low-cost lignocellulosic nanofibres for papermaking applications. *Industrial Crops and Products*, **2016**, 86, 295-300	5.9	78
93	Suitability of wheat straw semichemical pulp for the fabrication of lignocellulosic nanofibres and their application to papermaking slurries. *Cellulose*, **2016**, 23, 837-852	5.5	77
92	PBAT/thermoplastic starch blends: Effect of compatibilizers on the rheological, mechanical and morphological properties. *Carbohydrate Polymers*, **2018**, 199, 51-57	10.3	68
91	Nanofibrillated cellulose (CNF) from eucalyptus sawdust as a dry strength agent of unrefined eucalyptus handsheets. *Carbohydrate Polymers*, **2016**, 139, 99-105	10.3	61
90	Bio-polyethylene reinforced with thermomechanical pulp fibers: Mechanical and micromechanical characterization and its application in 3D-printing by fused deposition modelling. *Composites Part B: Engineering*, **2018**, 153, 70-77	10	59
89	Lignin/poly(butylene succinate) composites with antioxidant and antibacterial properties for potential biomedical applications. *International Journal of Biological Macromolecules*, **2020**, 145, 92-99	7.9	59
88	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
87	Are Cellulose Nanofibers a Solution for a More Circular Economy of Paper Products?. *Environmental Science & Technology*, **2015**, 49, 12206-13	10.3	53
86	The feasibility of incorporating cellulose micro/nanofibers in papermaking processes: the relevance of enzymatic hydrolysis. *Cellulose*, **2016**, 23, 1433-1445	5.5	52
85	Lignocellulosic nanofibers from triticale straw: The influence of hemicelluloses and lignin in their production and properties. *Carbohydrate Polymers*, **2017**, 163, 20-27	10.3	51
84	Approaching a Low-Cost Production of Cellulose Nanofibers for Papermaking Applications. *BioResources*, **2015**, 10,	1.3	49
83	Reducing the Amount of Catalyst in TEMPO-Oxidized Cellulose Nanofibers: Effect on Properties and Cost. *Polymers*, **2017**, 9,	4.5	47
82	Towards a good interphase between bleached kraft softwood fibers and poly(lactic) acid. *Composites Part B: Engineering*, **2016**, 99, 514-520	10	45
81	Mechanical and micromechanical tensile strength of eucalyptus bleached fibers reinforced polyoxymethylene composites. *Composites Part B: Engineering*, **2017**, 116, 333-339	10	44
80	Smart nanopaper based on cellulose nanofibers with hybrid PEDOT:PSS/polypyrrole for energy storage devices. *Carbohydrate Polymers*, **2017**, 165, 86-95	10.3	40
79	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	10	40

78	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
77	Mechanical and chemical dispersion of nanocelluloses to improve their reinforcing effect on recycled paper. *Cellulose*, **2018**, 25, 269-280	5.5	39
76	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	5.9	37
75	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
74	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	10.3	34
73	Approaching a new generation of fiberboards taking advantage of self lignin as green adhesive. *International Journal of Biological Macromolecules*, **2018**, 108, 927-935	7.9	34
72	High electrical and electrochemical properties in bacterial cellulose/polypyrrole membranes. *European Polymer Journal*, **2017**, 91, 1-9	5.2	28
71	TEMPO-Oxidized Cellulose Nanofibers: A Potential Bio-Based Superabsorbent for Diaper Production. *Nanomaterials*, **2019**, 9,	5.4	28
70	Behavior of the interphase of dyed cotton residue flocks reinforced polypropylene composites. *Composites Part B: Engineering*, **2017**, 128, 200-207	10	26
69	The effect of pre-treatment on the production of lignocellulosic nanofibers and their application as a reinforcing agent in paper. *Cellulose*, **2017**, 24, 2605-2618	5.5	25
68	Effective and simple methodology to produce nanocellulose-based aerogels for selective oil removal. *Cellulose*, **2016**, 23, 3077-3088	5.5	25
67	Interface and micromechanical characterization of tensile strength of bio-based composites from polypropylene and henequen strands. *Industrial Crops and Products*, **2019**, 132, 319-326	5.9	24
66	Evaluation of Thermal and Thermomechanical Behaviour of Bio-Based Polyamide 11 Based Composites Reinforced with Lignocellulosic Fibres. *Polymers*, **2017**, 9,	4.5	22
65	TEMPO-oxidized cellulose nanofibers as potential Cu(II) adsorbent for wastewater treatment. *Cellulose*, **2019**, 26, 903-916	5.5	22
64	Recycling dyed cotton textile byproduct fibers as polypropylene reinforcement. *Textile Reseach Journal*, **2019**, 89, 2113-2125	1.7	20
63	Oxidative treatments for cellulose nanofibers production: a comparative study between TEMPO-mediated and ammonium persulfate oxidation. *Cellulose*, **2020**, 27, 10671-10688	5.5	19
62	Magnetic bionanocomposites from cellulose nanofibers: Fast, simple and effective production method. *International Journal of Biological Macromolecules*, **2017**, 99, 29-36	7.9	18
61	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

60	Study of the flexural modulus of lignocellulosic fibers reinforced bio-based polyamide11 green composites. *Composites Part B: Engineering*, **2018**, 152, 126-132	10	15
59	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	7.9	14
58	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
57	Towards a new generation of functional fiber-based packaging: cellulose nanofibers for improved barrier, mechanical and surface properties. *Cellulose*, **2018**, 25, 683-695	5.5	14
56	Recycled fibers for fluting production: The role of lignocellulosic micro/nanofibers of banana leaves. *Journal of Cleaner Production*, **2018**, 172, 233-238	10.3	13
55	Determination of Mean Intrinsic Flexural Strength and Coupling Factor of Natural Fiber Reinforcement in Polylactic Acid Biocomposites. *Polymers*, **2019**, 11,	4.5	13
54	Nanocellulose characterization challenges. *BioResources*, **2021**, 16, 4382-4410	1.3	13
53	Biobased Composites from Biobased-Polyethylene and Barley Thermomechanical Fibers: Micromechanics of Composites. *Materials*, **2019**, 12,	3.5	13
52	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	7.9	12
51	Impact Strength and Water Uptake Behaviors of Fully Bio-Based PA11-SGW Composites. *Polymers*, **2018**, 10,	4.5	12
50	Combined effect of sodium carboxymethyl cellulose, cellulose nanofibers and drainage aids in recycled paper production process. *Carbohydrate Polymers*, **2018**, 183, 201-206	10.3	12
49	Nanofibrillated Cellulose as Functional Ingredient in Emulsion-Type Meat Products. *Food and Bioprocess Technology*, **2018**, 11, 1393-1401	5.1	12
48	Research on the Strengthening Advantages on Using Cellulose Nanofibers as Polyvinyl Alcohol Reinforcement. *Polymers*, **2020**, 12,	4.5	11
47	Enzymatic Refining and Cellulose Nanofiber Addition in Papermaking Processes from Recycled and Deinked Slurries. *BioResources*, **2015**, 10,	1.3	11
46	Explorative Study on the Use of Curau Reinforced Polypropylene Composites for the Automotive Industry. *Materials*, **2019**, 12,	3.5	11
45	Effect of nanofiber addition on the physical mechanical properties of chemimechanical pulp handsheets for packaging. *Cellulose*, **2020**, 27, 10811-10823	5.5	10
44	Sugarcane Bagasse Reinforced Composites: Studies on the Young Modulus and Macro and Micro-Mechanics. *BioResources*, **2017**, 12,	1.3	10
43	Extending the value chain of corn agriculture by evaluating technical feasibility and the quality of the interphase of chemo-thermomechanical fiber from corn stover reinforced polypropylene biocomposites. *Composites Part B: Engineering*, **2018**, 137, 16-22	10	10

42	Flexural Properties and Mean Intrinsic Flexural Strength of Old Newspaper Reinforced Polypropylene Composites. *Polymers*, **2019**, 11,	4.5	9
41	Immobilization of antimicrobial peptides onto cellulose nanopaper. *International Journal of Biological Macromolecules*, **2017**, 105, 741-748	7.9	9
40	Cardboard boxes as raw material for high-performance papers through the implementation of alternative technologies: More than closing the loop. *Journal of Industrial and Engineering Chemistry* , **2017**, 54, 52-58	6.3	8
39	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
38	Bleached Kraft Eucalyptus Fibers as Reinforcement of Poly(Lactic Acid) for the Development of High-Performance Biocomposites. *Polymers*, **2018**, 10,	4.5	8
37	Monitoring fibrillation in the mechanical production of lignocellulosic micro/nanofibers from bleached spruce thermomechanical pulp. *International Journal of Biological Macromolecules*, **2021**, 178, 354-362	7.9	8
36	Cellulose nanofibrils reinforced PBAT/TPS blends: Mechanical and rheological properties. *International Journal of Biological Macromolecules*, **2021**, 183, 267-275	7.9	8
35	Towards the development of highly transparent, flexible and water-resistant bio-based nanopapers: tailoring physico-mechanical properties. *Cellulose*, **2019**, 26, 6917-6932	5.5	7
34	Improved Process to Obtain Nanofibrillated Cellulose (CNF) Reinforced Starch Films with Upgraded Mechanical Properties and Barrier Character. *Polymers*, **2020**, 12,	4.5	7
33	Polyelectrolyte complexes for assisting the application of lignocellulosic micro/nanofibers in papermaking. *Cellulose*, **2018**, 25, 6083-6092	5.5	7
32	Development of high-performance binderless fiberboards from wheat straw residue. *Construction and Building Materials*, **2020**, 232, 117247	6.7	7
31	Evolution of Interfacial Shear Strength and Mean Intrinsic Single Strength in Biobased Composites from Bio-Polyethylene and Thermo-Mechanical Pulp-Corn Stover Fibers. *Polymers*, **2020**, 12,	4.5	6
30	High-Yield Pulp from Brassica napus to Manufacture Packaging Paper. *BioResources*, **2017**, 12,	1.3	6
29	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,	4.5	6
28	Horticultural Plant Residues as New Source for Lignocellulose Nanofibers Isolation: Application on the Recycling Paperboard Process. *Molecules*, **2020**, 25,	4.8	6
27	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	5.5	6
26	Enhancing the Mechanical Performance of Bleached Hemp Fibers Reinforced Polyamide 6 Composites: A Competitive Alternative to Commodity Composites. *Polymers*, **2020**, 12,	4.5	5
25	Modeling the Stiffness of Coupled and Uncoupled Recycled Cotton Fibers Reinforced Polypropylene Composites. *Polymers*, **2019**, 11,	4.5	5

24	Valorization of Date Palm Waste for Plastic Reinforcement: Macro and Micromechanics of Flexural Strength. *Polymers*, **2021**, 13,	4.5	5
23	Key role of anionic trash catching system on the efficiency of lignocellulose nanofibers in industrial recycled slurries. *Cellulose*, **2018**, 25, 357-366	5.5	5
22	Chemical-free production of lignocellulosic micro- and nanofibers from high-yield pulps: Synergies, performance, and feasibility. *Journal of Cleaner Production*, **2021**, 313, 127914	10.3	5
21	Impact Strength and Water Uptake Behavior of Bleached Kraft Softwood-Reinforced PLA Composites as Alternative to PP-Based Materials. *Polymers*, **2020**, 12,	4.5	4
20	Leather Waste to Enhance Mechanical Performance of High-Density Polyethylene. *Polymers*, **2020**, 12,	4.5	4
19	Correlation between rheological measurements and morphological features of lignocellulosic micro/nanofibers from different softwood sources. *International Journal of Biological Macromolecules*, **2021**, 187, 789-799	7.9	4
18	On the Path to a New Generation of Cement-Based Composites through the Use of Lignocellulosic Micro/Nanofibers. *Materials*, **2019**, 12,	3.5	3
17	Nanofibrillated cellulose as an additive in papermaking process **2017**, 153-173		3
16	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	5.9	3
15	Lignocellulosic nanofibers for the reinforcement of brown line paper in industrial water systems. *Cellulose*, **2020**, 27, 10799-10809	5.5	3
14	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,	4.5	3
13	Tuning morphology and structure of non-woody nanocellulose: Ranging between nanofibers and nanocrystals. *Industrial Crops and Products*, **2021**, 171, 113877	5.9	3
12	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	5.2	3
11	Indoor PM2.5 removal efficiency of two different non-thermal plasma systems. *Journal of Environmental Management*, **2021**, 278, 111515	7.9	2
10	Influence of pretreatment and mechanical nanofibrillation energy on properties of nanofibers from Aspen cellulose. *Cellulose*, **2021**, 28, 9187-9206	5.5	2
9	Topography of the Interfacial Shear Strength and the Mean Intrinsic Tensile Strength of Hemp Fibers as a Reinforcement of Polypropylene. *Materials*, **2020**, 13,	3.5	1
8	Enhanced Morphological Characterization of Cellulose Nano/Microfibers through Image Skeleton Analysis. *Nanomaterials*, **2021**, 11,	5.4	1
7	Micromechanics of Tensile Strength of Thermo-mechanical Pulp Reinforced Poly(lactic) Acid Biodegradable Composites. *Journal of Natural Fibers*,1-14	1.8	1

6	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**,	7.9	1
5	Sustainable plastic composites by polylactic acid-starch blends and bleached kraft hardwood fibers. *Composites Part B: Engineering*, **2022**, 238, 109901	10	1
4	Potentiometric back titration as a robust and simple method for specific surface area estimation of lignocellulosic fibers. *Cellulose*, **2021**, 28, 10815-10825	5.5	0
3	Study of the Flexural Strength of Recycled Dyed Cotton Fiber Reinforced Polypropylene Composites and the Effect of the Use of Maleic Anhydride as Coupling Agent. *Journal of Natural Fibers*,1-13	1.8	0
2	Micro/nanostructured lignonanocellulose obtained from steam-exploded sugarcane bagasse. *Cellulose*, **2021**, 28, 10163	5.5	0
1	Biobased polyamide reinforced with natural fiber composites **2021**, 141-165		0