

# Elisabete Frollini

## List of Publications by Citations

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99  
papers

3,051  
citations

34  
h-index

50  
g-index

101  
ext. papers

3,377  
ext. citations

4.6  
avg. IF

5.53  
L-index

#	Paper	IF	Citations
99	Sugar cane bagasse and curaua lignins oxidized by chlorine dioxide and reacted with furfuryl alcohol: characterization and stability. <i>Polymer Degradation and Stability</i> , <b>2004</b> , 86, 567-576	4.7	163
98	Unmodified and Modified Surface Sisal Fibers as Reinforcement of Phenolic and Lignophenolic Matrices Composites: Thermal Analyses of Fibers and Composites. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 405-417	3.9	133
97	An efficient, one-pot acylation of cellulose under homogeneous reaction conditions. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 882-889	2.6	110
96	Biobased composites from glyoxal-phenolic resins and sisal fibers. <i>Bioresource Technology</i> , <b>2010</b> , 101, 1998-2006	11	95
95	Poly(butylene succinate) reinforced with different lignocellulosic fibers. <i>Industrial Crops and Products</i> , <b>2013</b> , 45, 160-169	5.9	88
94	Influence of the supramolecular structure and physicochemical properties of cellulose on its dissolution in a lithium chloride/N,N-dimethylacetamide solvent system. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2638-47	6.9	79
93	Carboxymethyl lignin as stabilizing agent in aqueous ceramic suspensions. <i>Industrial Crops and Products</i> , <b>2012</b> , 36, 108-115	5.9	71
92	Mercerized linters cellulose: characterization and acetylation in N,N-dimethylacetamide/lithium chloride. <i>Carbohydrate Polymers</i> , <b>2006</b> , 63, 19-29	10.3	71
91	Phenolic Thermoset Matrix Reinforced with Sugar Cane Bagasse Fibers: Attempt to Develop a New Fiber Surface Chemical Modification Involving Formation of Quinones Followed by Reaction with Furfuryl Alcohol. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 728-736	3.9	71
90	Studies on the homogeneous acetylation of cellulose in the novel solvent dimethyl sulfoxide/tetrabutylammonium fluoride trihydrate. <i>Macromolecular Bioscience</i> , <b>2004</b> , 4, 1008-13	5.5	70
89	Sisal chemically modified with lignins: Correlation between fibers and phenolic composites properties. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 1109-1121	4.7	65
88	Fiberboards Based on Sugarcane Bagasse Lignin and Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 829-839	3.9	64
87	Materials prepared from biopolyethylene and curaua fibers: Composites from biomass. <i>Polymer Testing</i> , <b>2012</b> , 31, 880-888	4.5	63
86	Application of the solvent dimethyl sulfoxide/tetrabutyl-ammonium fluoride trihydrate as reaction medium for the homogeneous acylation of Sisal cellulose. <i>Cellulose</i> , <b>2003</b> , 10, 125-132	5.5	62
85	Cellulose nanocrystals: Pretreatments, preparation strategies, and surface functionalization. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 182, 1554-1581	7.9	61
84	Biobased composites from tannin/phenolic polymers reinforced with coir fibers. <i>Industrial Crops and Products</i> , <b>2010</b> , 32, 305-312	5.9	60
83	Some aspects of acylation of cellulose under homogeneous solution conditions <b>1999</b> , 37, 1357-1363		55

82	Cellulose swelling by protic solvents: which properties of the biopolymer and the solvent matter?. <i>Cellulose</i> , <b>2008</b> , 15, 371-392	5.5	54
81	Adding value to lignins isolated from sugarcane bagasse and Miscanthus. <i>Industrial Crops and Products</i> , <b>2013</b> , 42, 87-95	5.9	52
80	Tannin phenolic resins: Synthesis, characterization, and application as matrix in biobased composites reinforced with sisal fibers. <i>Composites Part B: Engineering</i> , <b>2012</b> , 43, 2851-2860	10	52
79	Bio-based materials from the electrospinning of lignocellulosic sisal fibers and recycled PET. <i>Industrial Crops and Products</i> , <b>2015</b> , 72, 69-76	5.9	50
78	Thermoset matrix reinforced with sisal fibers: Effect of the cure cycle on the properties of the biobased composite. <i>Polymer Testing</i> , <b>2009</b> , 28, 793-800	4.5	50
77	Phenolic matrices and sisal fibers modified with hydroxy terminated polybutadiene rubber: Impact strength, water absorption, and morphological aspects of thermosets and composites. <i>Industrial Crops and Products</i> , <b>2010</b> , 31, 178-184	5.9	50
76	Sisal fibers: surface chemical modification using reagent obtained from a renewable source; characterization of hemicellulose and lignin as model study. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 8576-84	5.7	49
75	Phenol furfural resins to elaborate composites reinforced with sisal fibers. Molecular analysis of resin and properties of composites. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 2291-2303	2.9	48
74	Lignopolyurethanic materials based on oxypropylated sodium lignosulfonate and castor oil blends. <i>Industrial Crops and Products</i> , <b>2015</b> , 72, 77-86	5.9	46
73	Renewable resources as reinforcement of polymeric matrices: composites based on phenolic thermosets and chemically modified sisal fibers. <i>Macromolecular Bioscience</i> , <b>2007</b> , 7, 1121-31	5.5	46
72	Effect of different photo-initiators and light curing units on degree of conversion of composites. <i>Brazilian Oral Research</i> , <b>2010</b> , 24, 263-70	2.6	45
71	Valorization of an industrial organosolv-sugarcane bagasse lignin: Characterization and use as a matrix in biobased composites reinforced with sisal fibers. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 107, 612-21	4.9	44
70	Cellulose acetates from linters and sisal: correlation between synthesis conditions in DMAc/LiCl and product properties. <i>Bioresource Technology</i> , <b>2006</b> , 97, 1696-702	11	42
69	Biobased films prepared from NaOH/thiourea aqueous solution of chitosan and linter cellulose. <i>Cellulose</i> , <b>2011</b> , 18, 699-712	5.5	41
68	Nanostructured electrospun nonwovens of poly( $\epsilon$ -caprolactone)/quaternized chitosan for potential biomedical applications. <i>Carbohydrate Polymers</i> , <b>2018</b> , 186, 110-121	10.3	40
67	Acetylation of cellulose in LiCl-N,N-dimethylacetamide: first report on the correlation between the reaction efficiency and the aggregation number of dissolved cellulose. <i>Cellulose</i> , <b>2011</b> , 18, 385-392	5.5	40
66	Biocomposites based on poly(butylene succinate) and curaua: Mechanical and morphological properties. <i>Polymer Testing</i> , <b>2015</b> , 45, 168-173	4.5	38
65	Green polyethylene and curaua cellulose nanocrystal based nanocomposites: Effect of vegetable oils as coupling agent and processing technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1010-1019	2.6	34

64	Thermal conductivity of polymers by hot-wire method. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 62, 2281-2285	1.3	30
63	Studies on fluorescence of cellulose. <i>Holzforschung</i> , <b>2007</b> , 61, 504-508	2	29
62	Thermal decomposition of mercerized linter cellulose and its acetates obtained from a homogeneous reaction. <i>Polimeros</i> , <b>2011</b> , 21, 111-117	1.6	27
61	Monomer conversion at different dental composite depths using six light-curing methods. <i>Polymer Testing</i> , <b>2006</b> , 25, 282-288	4.5	26
60	Phenolic and Lignophenolic Closed Cells Foams: Thermal Conductivity and Other Properties. <i>Polymer-Plastics Technology and Engineering</i> , <b>2003</b> , 42, 605-626		26
59	Resistência ao Impacto e Outras Propriedades de Compósitos Lignocelulósicos: Matrizes Termofixas Fenólicas Reforçadas com Fibras de Bagaço de Cana-de-açúcar. <i>Polimeros</i> , <b>2002</b> , 12, 228-239	1.6	25
58	Electrospun recycled PET-based mats: Tuning the properties by addition of cellulose and/or lignin. <i>Polymer Testing</i> , <b>2017</b> , 60, 422-431	4.5	24
57	Sisal cellulose and magnetite nanoparticles: formation and properties of magnetic hybrid films. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 2170-2179	5.5	22
56	Phenolic and lignosulfonate-based matrices reinforced with untreated and lignosulfonate-treated sisal fibers. <i>Industrial Crops and Products</i> , <b>2017</b> , 96, 30-41	5.9	22
55	Some aspects of acetylation of untreated and mercerized sisal cellulose. <i>Journal of the Brazilian Chemical Society</i> , <b>2010</b> , 21, 71-77	1.5	22
54	Effects of average molar weight, crystallinity, and hemicelluloses content on the enzymatic hydrolysis of sisal pulp, filter paper, and microcrystalline cellulose. <i>Industrial Crops and Products</i> , <b>2018</b> , 115, 280-289	5.9	21
53	Effect of acid concentration and pulp properties on hydrolysis reactions of mercerized sisal. <i>Carbohydrate Polymers</i> , <b>2013</b> , 93, 347-56	10.3	21
52	Sugar Cane Bagasse Lignin in Resol-Type Resin: Alternative Application for Ligninphenol-Formaldehyde Resins. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>1997</b> , 34, 153-164	2.2	21
51	LIGNIN IN PHENOLIC CLOSED CELL FOAMS: THERMAL STABILITY AND APPARENT DENSITY. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2002</b> , 39, 643-656	2.2	21
50	Synthesis of bio-based polyurethanes from Kraft lignin and castor oil with simultaneous film formation. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 145, 28-41	7.9	21
49	Sodium lignosulfonate as a renewable stabilizing agent for aqueous alumina suspensions. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 82, 927-32	7.9	20
48	Processing and thermal properties of composites based on recycled PET, sisal fibers, and renewable plasticizers. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	20
47	Composites based on renewable materials: Polyurethane-type matrices from forest byproduct/vegetable oil and reinforced with lignocellulosic fibers. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 2224-2233	2.9	19

46	Bio-based Films from Linter Cellulose and Its Acetates: Formation and Properties. <i>Materials</i> , <b>2013</b> , 6, 2410-2435	3.5	18
45	Ionized-Air-Treated Curaua Fibers as Reinforcement for Phenolic Matrices. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 521-528	3.9	18
44	Plastics and Composites from Lignophenols <b>2004</b> , 193-225		18
43	Oxalic acid as a catalyst for the hydrolysis of sisal pulp. <i>Industrial Crops and Products</i> , <b>2015</b> , 71, 163-172	5.9	17
42	Adding value to the Brazilian sisal: acid hydrolysis of its pulp seeking production of sugars and materials. <i>Cellulose</i> , <b>2012</b> , 19, 975-992	5.5	17
41	Degree of conversion and knoop hardness of Z250 composite using different photo-activation methods. <i>Polymer Testing</i> , <b>2005</b> , 24, 814-818	4.5	17
40	A physical organic chemistry approach to dissolution of cellulose: effects of cellulose mercerization on its properties and on the kinetics of its decrystallization. <i>Arkivoc</i> , <b>2011</b> , 2011, 416-425	0.9	17
39	Saccharification of Brazilian sisal pulp: evaluating the impact of mercerization on non-hydrolyzed pulp and hydrolysis products. <i>Cellulose</i> , <b>2012</b> , 19, 351-362	5.5	16
38	Sisal fibers treated with NaOH and benzophenonetetracarboxylic dianhydride as reinforcement of phenolic matrix. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 269-276	2.9	16
37	Composites from a forest biorefinery byproduct and agrofibers: Lignosulfonate-phenolic type matrices reinforced with sisal fibers. <i>Tappi Journal</i> , <b>2012</b> , 11, 41-49	0.5	15
36	Enzymatic hydrolysis of mercerized and unmercerized sisal pulp. <i>Cellulose</i> , <b>2017</b> , 24, 2437-2453	5.5	14
35	Ultrathin and nanofibers via room temperature electrospinning from trifluoroacetic acid solutions of untreated lignocellulosic sisal fiber or sisal pulp. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a <sup>2.9</sup>		14
34	Dynamic mechanical thermal analysis of composite resins with CQ and PPD as photo-initiators photoactivated by QTH and LED units. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2013</b> , 24, 21-9	4.1	14
33	Carbon Fiber Reinforced Carbon Composites from Renewable Sources. <i>Polymer-Plastics Technology and Engineering</i> , <b>2004</b> , 43, 1187-1211		14
32	Cellulose loading and water sorption value as important parameters for the enzymatic hydrolysis of cellulose. <i>Cellulose</i> , <b>2013</b> , 20, 1109-1119	5.5	13
31	Influence of pH and Time on the Stability of Aqueous Alumina Suspensions Containing Sodium Polyacrylates: A Revisited Process. <i>Journal of Dispersion Science and Technology</i> , <b>2002</b> , 23, 827-836	1.5	13
30	Biocompósitos de matriz glioxal-fenol reforçada com celulose microcristalina. <i>Polimeros</i> , <b>2010</b> , 20, 126-133	1.6	12
29	Potential use of the liquor from sisal pulp hydrolysis as substrate for surfactin production. <i>Industrial Crops and Products</i> , <b>2015</b> , 66, 239-245	5.9	11

28	Compósitos de matriz termofixa fenólica reforçada com fibras vegetais. <i>Polimeros</i> , <b>1999</b> , 9, 170-176	1.6	11
27	Electrolyte membranes based on ultrafine fibers of acetylated cellulose for improved and long-lasting dye-sensitized solar cells. <i>Cellulose</i> , <b>2019</b> , 26, 6151-6163	5.5	10
26	Multi-technique surface characterization of bio-based films from sisal cellulose and its esters: a FE-SEM, EXPS and ToF-SIMS approach. <i>Cellulose</i> , <b>2014</b> , 21, 1289-1303	5.5	10
25	Sisal cellulose and its acetates: generation of films and reinforcement in a one-pot process. <i>Cellulose</i> , <b>2013</b> , 20, 453-465	5.5	10
24	Renewable Resources and a Recycled Polymer as Raw Materials: Mats from Electrospinning of Lignocellulosic Biomass and PET Solutions. <i>Polymers</i> , <b>2018</b> , 10,	4.5	9
23	Carboxymethyl Chitosan: Preparation and Use in Colloidal Ceramic Processing. <i>Journal of Polymers and the Environment</i> , <b>2013</b> , 21, 816-825	4.5	9
22	Preparaçõ e caracterizaçõ de biocompõsitos baseados em fibra de curauçõ biopolietileno de alta densidade (BPEAD) e polibutadieno lquido hidroxilado (PBHL). <i>Polimeros</i> , <b>2013</b> , 23, 65-73	1.6	9
21	Sugarcane Bagasse Fibers Treated and Untreated: Performance as Reinforcement in Phenolic-Type Matrices Based on Lignosulfonates. <i>Waste and Biomass Valorization</i> , <b>2019</b> , 10, 3515-3524	3.2	8
20	Lignina em espumas fenõcas. <i>Polimeros</i> , <b>1999</b> , 9, 66-75	1.6	8
19	Cellulose Nanocrystals versus Microcrystalline Cellulose as Reinforcement of Lignopolyurethane Matrix. <i>Fibers</i> , <b>2020</b> , 8, 21	3.7	7
18	Agregaçõ de cadeias de acetatos de celulose em LiCl/DMAc: avaliaçõ via viscosimetria. <i>Polimeros</i> , <b>2011</b> , 21, 143-145	1.6	6
17	Polyurethanes from plant- and fossil-sourced polyols: Properties of neat polymers and their sisal composites. <i>Industrial Crops and Products</i> , <b>2020</b> , 155, 112821	5.9	6
16	Unburned Sugarcane Bagasse: Bio-based Phenolic Thermoset Composites as an Alternative for the Management of this Agrowaste. <i>Journal of Polymers and the Environment</i> , <b>2020</b> , 28, 3201-3210	4.5	6
15	Cellulose and/or lignin in fiber-aligned electrospun PET mats: the influence on materials end-properties. <i>Cellulose</i> , <b>2019</b> , 26, 617-630	5.5	6
14	Bio-based electrospun mats composed of aligned and nonaligned fibers from cellulose nanocrystals, castor oil, and recycled PET. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 163, 878-887	7.9	5
13	Investigating effects of high cellulase concentration on the enzymatic hydrolysis of the sisal cellulosic pulp. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 138, 919-926	7.9	5
12	Treatments of jute fibers aiming at improvement of fiber-phenolic matrix adhesion. <i>Polimeros</i> , <b>2014</b> , 24, 417-421	1.6	5
11	Matriz termofixa fenõca em compõsitos reforçados com fibras de bagaçõ de cana-de-açõar. <i>Polimeros</i> , <b>1999</b> , 9, 78-87	1.6	5

10	Influence of pH, temperature, and sisal pulp on the production of cellulases from <i>Aspergillus</i> sp. CBMAI 1198 and hydrolysis of cellulosic materials with different hemicelluloses content, crystallinity, and average molar mass. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 10, 483-494	2.3	5
9	Phenolic Resins and Composites <b>2012</b> , 1		4
8	Hydrogel from all in all lignocellulosic sisal fibers macromolecular components. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 181, 978-989	7.9	4
7	EFFECT OF THE ADDITION OF A CATIONIC DERIVATIVE OF THE NATURAL POLYSACCHARIDE GUAR GUM ON THE STABILITY OF AN AQUEOUS DISPERSION OF ALUMINA. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2002</b> , 39, 709-721	2.2	3
6	Polymeric materials from renewable resources <b>2016</b> ,		2
5	An efficient, one-pot acylation of cellulose under homogeneous reaction conditions <b>2000</b> , 201, 882		2
4	Removing silica from oil palm mesocarp fibers. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	1
3	Aerosol filtration performance of electrospun membranes comprising polyacrylonitrile and cellulose nanocrystals. <i>Journal of Membrane Science</i> , <b>2022</b> , 650, 120392	9.6	1
2	Cross-Linked and Surface-Modified Cellulose Acetate as a Cover Layer for Paper-Based Electrochromic Devices. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 2393-2401	4.3	0
1	Electrospinning of cellulose carboxylic esters synthesized under homogeneous conditions: Effects of the ester degree of substitution and acyl group chain length on the morphology of the fabricated mats. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 339, 116745	6	0