Elisabete Frollini

List of Publications by Year in Descending Order

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	Aerosol filtration performance of electrospun membranes comprising polyacrylonitrile and cellulose nanocrystals. *Journal of Membrane Science*, **2022**, 650, 120392	9.6	1
98	Cross-Linked and Surface-Modified Cellulose Acetate as a Cover Layer for Paper-Based Electrochromic Devices. *ACS Applied Polymer Materials*, **2021**, 3, 2393-2401	4.3	0
97	Hydrogel from all in all lignocellulosic sisal fibers macromolecular components. *International Journal of Biological Macromolecules*, **2021**, 181, 978-989	7.9	4
96	Cellulose nanocrystals: Pretreatments, preparation strategies, and surface functionalization. *International Journal of Biological Macromolecules*, **2021**, 182, 1554-1581	7.9	61
95	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. *Journal of Molecular Liquids*, **2021**, 339, 116745	6	0
94	Bio-based electrospun mats composed of aligned and nonaligned fibers from cellulose nanocrystals, castor oil, and recycled PET. *International Journal of Biological Macromolecules*, **2020**, 163, 878-887	7.9	5
93	Synthesis of bio-based polyurethanes from Kraft lignin and castor oil with simultaneous film formation. *International Journal of Biological Macromolecules*, **2020**, 145, 28-41	7.9	21
92	Polyurethanes from plant- and fossil-sourced polyols: Properties of neat polymers and their sisal composites. *Industrial Crops and Products*, **2020**, 155, 112821	5.9	6
91	Unburned Sugarcane Bagasse: Bio-based Phenolic Thermoset Composites as an Alternative for the Management of this Agrowaste. *Journal of Polymers and the Environment*, **2020**, 28, 3201-3210	4.5	6
90	Influence of pH, temperature, and sisal pulp on the production of cellulases from Aspergillus sp. CBMAI 1198 and hydrolysis of cellulosic materials with different hemicelluloses content, crystallinity, and average molar mass. *Biomass Conversion and Biorefinery*, **2020**, 10, 483-494	2.3	5
89	Cellulose Nanocrystals versus Microcrystalline Cellulose as Reinforcement of Lignopolyurethane Matrix. *Fibers*, **2020**, 8, 21	3.7	7
88	Electrolyte membranes based on ultrafine fibers of acetylated cellulose for improved and long-lasting dye-sensitized solar cells. *Cellulose*, **2019**, 26, 6151-6163	5.5	10
87	Sisal cellulose and magnetite nanoparticles: formation and properties of magnetic hybrid films. *Journal of Materials Research and Technology*, **2019**, 8, 2170-2179	5.5	22
86	Sugarcane Bagasse Fibers Treated and Untreated: Performance as Reinforcement in Phenolic-Type Matrices Based on Lignosulfonates. *Waste and Biomass Valorization*, **2019**, 10, 3515-3524	3.2	8
85	Investigating effects of high cellulase concentration on the enzymatic hydrolysis of the sisal cellulosic pulp. *International Journal of Biological Macromolecules*, **2019**, 138, 919-926	7.9	5
84	Cellulose and/or lignin in fiber-aligned electrospun PET mats: the influence on materials end-properties. *Cellulose*, **2019**, 26, 617-630	5.5	6
83	Effects of average molar weight, crystallinity, and hemicelluloses content on the enzymatic hydrolysis of sisal pulp, filter paper, and microcrystalline cellulose. *Industrial Crops and Products*, **2018**, 115, 280-289	5.9	21

82	Nanostructured electrospun nonwovens of poly(ε-caprolactone)/quaternized chitosan for potential biomedical applications. *Carbohydrate Polymers*, **2018**, 186, 110-121	10.3	40
81	Renewable Resources and a Recycled Polymer as Raw Materials: Mats from Electrospinning of Lignocellulosic Biomass and PET Solutions. *Polymers*, **2018**, 10,	4.5	9
80	Enzymatic hydrolysis of mercerized and unmercerized sisal pulp. *Cellulose*, **2017**, 24, 2437-2453	5.5	14
79	Electrospun recycled PET-based mats: Tuning the properties by addition of cellulose and/or lignin. *Polymer Testing*, **2017**, 60, 422-431	4.5	24
78	Phenolic and lignosulfonate-based matrices reinforced with untreated and lignosulfonate-treated sisal fibers. *Industrial Crops and Products*, **2017**, 96, 30-41	5.9	22
77	Sodium lignosulfonate as a renewable stabilizing agent for aqueous alumina suspensions. *International Journal of Biological Macromolecules*, **2016**, 82, 927-32	7.9	20
76	Polymeric materials from renewable resources **2016**,		2
75	Ultrathin and nanofibers via room temperature electrospinning from trifluoroacetic acid solutions of untreated lignocellulosic sisal fiber or sisal pulp. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	14
74	Lignopolyurethanic materials based on oxypropylated sodium lignosulfonate and castor oil blends. *Industrial Crops and Products*, **2015**, 72, 77-86	5.9	46
73	Bio-based materials from the electrospinning of lignocellulosic sisal fibers and recycled PET. *Industrial Crops and Products*, **2015**, 72, 69-76	5.9	50
72	Biocomposites based on poly(butylene succinate) and curaua: Mechanical and morphological properties. *Polymer Testing*, **2015**, 45, 168-173	4.5	38
71	Potential use of the liquor from sisal pulp hydrolysis as substrate for surfactin production. *Industrial Crops and Products*, **2015**, 66, 239-245	5.9	11
70	Oxalic acid as a catalyst for the hydrolysis of sisal pulp. *Industrial Crops and Products*, **2015**, 71, 163-172	5.9	17
69	Green polyethylene and curaua cellulose nanocrystal based nanocomposites: Effect of vegetable oils as coupling agent and processing technique. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 1010-1019	2.6	34
68	Multi-technique surface characterization of bio-based films from sisal cellulose and its esters: a FE-SEM, XPS and ToF-SIMS approach. *Cellulose*, **2014**, 21, 1289-1303	5.5	10
67	Processing and thermal properties of composites based on recycled PET, sisal fibers, and renewable plasticizers. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	20
66	Treatments of jute fibers aiming at improvement of fiber-phenolic matrix adhesion. *Polimeros*, **2014**, 24, 417-421	1.6	5
65	Adding value to lignins isolated from sugarcane bagasse and Miscanthus. *Industrial Crops and Products*, **2013**, 42, 87-95	5.9	52

64	Carboxymethyl Chitosan: Preparation and Use in Colloidal Ceramic Processing. *Journal of Polymers and the Environment*, **2013**, 21, 816-825	4.5	9
63	Composites based on renewable materials: Polyurethane-type matrices from forest byproduct/vegetable oil and reinforced with lignocellulosic fibers. *Journal of Applied Polymer Science*, **2013**, 129, 2224-2233	2.9	19
62	Cellulose loading and water sorption value as important parameters for the enzymatic hydrolysis of cellulose. *Cellulose*, **2013**, 20, 1109-1119	5.5	13
61	Effect of acid concentration and pulp properties on hydrolysis reactions of mercerized sisal. *Carbohydrate Polymers*, **2013**, 93, 347-56	10.3	21
60	Poly(butylene succinate) reinforced with different lignocellulosic fibers. *Industrial Crops and Products*, **2013**, 45, 160-169	5.9	88
59	Dynamic mechanical thermal analysis of composite resins with CQ and PPD as photo-initiators photoactivated by QTH and LED units. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 24, 21-9	4.1	14
58	Sisal cellulose and its acetates: generation of films and reinforcement in a one-pot process. *Cellulose*, **2013**, 20, 453-465	5.5	10
57	Bio-based Films from Linter Cellulose and Its Acetates: Formation and Properties. *Materials*, **2013**, 6, 2410-2435	3.5	18
56	Preparação e caracterização de biocompósitos baseados em fibra de curauá/biopolietileno de alta densidade (BPEAD) e polibutadieno líquido hidroxilado (PBHL). *Polimeros*, **2013**, 23, 65-73	1.6	9
55	Carboxymethyl lignin as stabilizing agent in aqueous ceramic suspensions. *Industrial Crops and Products*, **2012**, 36, 108-115	5.9	71
54	Saccharification of Brazilian sisal pulp: evaluating the impact of mercerization on non-hydrolyzed pulp and hydrolysis products. *Cellulose*, **2012**, 19, 351-362	5.5	16
53	Materials prepared from biopolyethylene and curaua fibers: Composites from biomass. *Polymer Testing*, **2012**, 31, 880-888	4.5	63
52	Tannin/phenolic resins: Synthesis, characterization, and application as matrix in biobased composites reinforced with sisal fibers. *Composites Part B: Engineering*, **2012**, 43, 2851-2860	10	52
51	Phenolic Resins and Composites **2012**, 1		4
50	Adding value to the Brazilian sisal: acid hydrolysis of its pulp seeking production of sugars and materials. *Cellulose*, **2012**, 19, 975-992	5.5	17
49	Composites from a forest biorefinery byproduct and agrofibers: Lignosulfonate-phenolic type matrices reinforced with sisal fibers. *Tappi Journal*, **2012**, 11, 41-49	0.5	15
48	Agregação de cadeias de acetatos de celulose em LiCl/DMAc: avaliação via viscosimetria. *Polimeros*, **2011**, 21, 143-145	1.6	6
47	Thermal decomposition of mercerized linter cellulose and its acetates obtained from a homogeneous reaction. *Polimeros*, **2011**, 21, 111-117	1.6	27

46	Acetylation of cellulose in LiCl-N,N-dimethylacetamide: first report on the correlation between the reaction efficiency and the aggregation number of dissolved cellulose. *Cellulose*, **2011**, 18, 385-392	5.5	40
45	Biobased films prepared from NaOH/thiourea aqueous solution of chitosan and linter cellulose. *Cellulose*, **2011**, 18, 699-712	5.5	41
44	A physical organic chemistry approach to dissolution of cellulose: effects of cellulose mercerization on its properties and on the kinetics of its decrystallization. *Arkivoc*, **2011**, 2011, 416-425	0.9	17
43	Biocompósitos de matriz glioxal-fenol reforçada com celulose microcristalina. *Polimeros*, **2010**, 20, 126-133	1.6	12
42	Some aspects of acetylation of untreated and mercerized sisal cellulose. *Journal of the Brazilian Chemical Society*, **2010**, 21, 71-77	1.5	22
41	Effect of different photo-initiators and light curing units on degree of conversion of composites. *Brazilian Oral Research*, **2010**, 24, 263-70	2.6	45
40	Phenolic matrices and sisal fibers modified with hydroxy terminated polybutadiene rubber: Impact strength, water absorption, and morphological aspects of thermosets and composites. *Industrial Crops and Products*, **2010**, 31, 178-184	5.9	50
39	Biobased composites from tannin-phenolic polymers reinforced with coir fibers. *Industrial Crops and Products*, **2010**, 32, 305-312	5.9	60
38	Valorization of an industrial organosolv-sugarcane bagasse lignin: Characterization and use as a matrix in biobased composites reinforced with sisal fibers. *Biotechnology and Bioengineering*, **2010**, 107, 612-21	4.9	44
37	Sisal fibers treated with NaOH and benzophenonetetracarboxylic dianhydride as reinforcement of phenolic matrix. *Journal of Applied Polymer Science*, **2010**, 115, 269-276	2.9	16
36	Biobased composites from glyoxal-phenolic resins and sisal fibers. *Bioresource Technology*, **2010**, 101, 1998-2006	11	95
35	Thermoset matrix reinforced with sisal fibers: Effect of the cure cycle on the properties of the biobased composite. *Polymer Testing*, **2009**, 28, 793-800	4.5	50
34	Sisal chemically modified with lignins: Correlation between fibers and phenolic composites properties. *Polymer Degradation and Stability*, **2008**, 93, 1109-1121	4.7	65
33	Cellulose swelling by protic solvents: which properties of the biopolymer and the solvent matter?. *Cellulose*, **2008**, 15, 371-392	5.5	54
32	Ionized-Air-Treated Curaua Fibers as Reinforcement for Phenolic Matrices. *Macromolecular Materials and Engineering*, **2008**, 293, 521-528	3.9	18
31	Phenol-furfural resins to elaborate composites reinforced with sisal fibers. Molecular analysis of resin and properties of composites. *Journal of Applied Polymer Science*, **2008**, 109, 2291-2303	2.9	48
30	Sisal fibers: surface chemical modification using reagent obtained from a renewable source; characterization of hemicellulose and lignin as model study. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 8576-84	5.7	49
29	Renewable resources as reinforcement of polymeric matrices: composites based on phenolic thermosets and chemically modified sisal fibers. *Macromolecular Bioscience*, **2007**, 7, 1121-31	5.5	46

28	Studies on fluorescence of cellulosics. *Holzforschung*, **2007**, 61, 504-508	2	29
27	Unmodified and Modified Surface Sisal Fibers as Reinforcement of Phenolic and Lignophenolic Matrices Composites: Thermal Analyses of Fibers and Composites. *Macromolecular Materials and Engineering*, **2006**, 291, 405-417	3.9	133
26	Fiberboards Based on Sugarcane Bagasse Lignin and Fibers. *Macromolecular Materials and Engineering*, **2006**, 291, 829-839	3.9	64
25	Mercerized linters cellulose: characterization and acetylation in N,N-dimethylacetamide/lithium chloride. *Carbohydrate Polymers*, **2006**, 63, 19-29	10.3	71
24	Cellulose acetates from linters and sisal: correlation between synthesis conditions in DMAc/LiCl and product properties. *Bioresource Technology*, **2006**, 97, 1696-702	11	42
23	Monomer conversion at different dental composite depths using six light-curing methods. *Polymer Testing*, **2006**, 25, 282-288	4.5	26
22	Influence of the supramolecular structure and physicochemical properties of cellulose on its dissolution in a lithium chloride/N,N-dimethylacetamide solvent system. *Biomacromolecules*, **2005**, 6, 2638-47	6.9	79
21	Degree of conversion and knoop hardness of Z250 composite using different photo-activation methods. *Polymer Testing*, **2005**, 24, 814-818	4.5	17
20	Carbon Fiber Reinforced Carbon Composites from Renewable Sources. *Polymer-Plastics Technology and Engineering*, **2004**, 43, 1187-1211		14
19	Studies on the homogeneous acetylation of cellulose in the novel solvent dimethyl sulfoxide/tetrabutylammonium fluoride trihydrate. *Macromolecular Bioscience*, **2004**, 4, 1008-13	5.5	70
18	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. *Macromolecular Materials and Engineering*, **2004**, 289, 728-736	3.9	71
17	Sugar cane bagasse and curaua lignins oxidized by chlorine dioxide and reacted with furfuryl alcohol: characterization and stability. *Polymer Degradation and Stability*, **2004**, 86, 567-576	4.7	163
16	Plastics and Composites from Lignophenols **2004**, 193-225		18
15	Application of the solvent dimethyl sulfoxide/tetrabutyl-ammonium fluoride trihydrate as reaction medium for the homogeneous acylation of Sisal cellulose. *Cellulose*, **2003**, 10, 125-132	5.5	62
14	Phenolic and Lignophenolic Closed Cells Foams: Thermal Conductivity and Other Properties. *Polymer-Plastics Technology and Engineering*, **2003**, 42, 605-626		26
13	Resistência ao Impacto e Outras Propriedades de Compósitos Lignocelulósicos: Matrizes Termofixas Fenólicas Reforçadas com Fibras de Bagaço de Cana-de-açúcar. *Polimeros*, **2002**, 12, 228-239	1.6	25
12	EFFECT OF THE ADDITION OF A CATIONIC DERIVATIVE OF THE NATURAL POLYSACCHARIDE GUAR GUM ON THE STABILITY OF AN AQUEOUS DISPERSION OF ALUMINA. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2002**, 39, 709-721	2.2	3
11	Influence of pH and Time on the Stability of Aqueous Alumina Suspensions Containing Sodium Polyacrylates: A Revisited Process. *Journal of Dispersion Science and Technology*, **2002**, 23, 827-836	1.5	13

10	LIGNIN IN PHENOLIC CLOSED CELL FOAMS: THERMAL STABILITY AND APPARENT DENSITY. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2002**, 39, 643-656	2.2	21
9	An efficient, one-pot acylation of cellulose under homogeneous reaction conditions. *Macromolecular Chemistry and Physics*, **2000**, 201, 882-889	2.6	110
8	An efficient, one-pot acylation of cellulose under homogeneous reaction conditions **2000**, 201, 882		2
7	Matriz termofixa fenólica em compósitos reforçados com fibras de bagaço de cana-de-açúcar. *Polimeros*, **1999**, 9, 78-87	1.6	5
6	Lignina em espumas fenólicas. *Polimeros*, **1999**, 9, 66-75	1.6	8
5	Compósitos de matriz termofixa fenólica reforçada com fibras vegetais. *Polimeros*, **1999**, 9, 170-176	1.6	11
4	Some aspects of acylation of cellulose under homogeneous solution conditions **1999**, 37, 1357-1363		55
3	Sugar Cane Bagasse Lignin in Resol-Type Resin: Alternative Application for Ligninphenol-Formaldehyde Resins. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1997**, 34, 153-164	2.2	21
2	Thermal conductivity of polymers by hot-wire method. *Journal of Applied Polymer Science*, **1996**, 62, 2281-2285	1.9	30
1	Removing silica from oil palm mesocarp fibers. *Biomass Conversion and Biorefinery*,1	2.3	1