

# Liliane F Lona

## List of Publications by Citations

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96  
papers

1,761  
citations

22  
h-index

38  
g-index

100  
ext. papers

2,059  
ext. citations

3.4  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
96	An overview on properties and applications of poly(butylene adipate-co-terephthalate)PBAT based composites. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, E7-E15	2.3	137
95	Mechanical, rheological and degradation properties of PBAT nanocomposites reinforced by functionalized cellulose nanocrystals. <i>European Polymer Journal</i> , <b>2017</b> , 97, 356-365	5.2	112
94	How do cellulose nanocrystals affect the overall properties of biodegradable polymer nanocomposites: A comprehensive review. <i>European Polymer Journal</i> , <b>2018</b> , 108, 274-285	5.2	104
93	Isolation and surface modification of cellulose nanocrystals from sugarcane bagasse waste: From a micro- to a nano-scale view. <i>Applied Surface Science</i> , <b>2018</b> , 436, 1113-1122	6.7	94
92	Porous nanocellulose gels and foams: Breakthrough status in the development of scaffolds for tissue engineering. <i>Materials Today</i> , <b>2020</b> , 37, 126-141	21.8	76
91	Polymer Composites Reinforced with Natural Fibers and Nanocellulose in the Automotive Industry: A Short Review. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 51	3	73
90	Functionalized cellulose nanocrystals as reinforcement in biodegradable polymer nanocomposites. <i>Polymer Composites</i> , <b>2018</b> , 39, E9-E29	3	73
89	Neural network applications in polymerization processes. <i>Brazilian Journal of Chemical Engineering</i> , <b>2005</b> , 22, 401-418	1.7	60
88	Nanocellulose/bioactive glass cryogels as scaffolds for bone regeneration. <i>Nanoscale</i> , <b>2019</b> , 11, 19842-19849	19.4	51
87	Heterogeneous modeling for fluidized-bed polymerization reactor. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 963-969	4.4	41
86	Modeling of the Nitroxide-Mediated Radical Copolymerization of Styrene and Divinylbenzene. <i>Macromolecular Reaction Engineering</i> , <b>2009</b> , 3, 288-311	1.5	40
85	Study of thermal and mechanical properties of PMMA/LDHs nanocomposites obtained by in situ bulk polymerization. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 1025-1030	8.4	38
84	Simulation of Styrene Polymerization by Monomolecular and Bimolecular Nitroxide-Mediated Radical Processes over a Range of Reaction Conditions. <i>Macromolecular Theory and Simulations</i> , <b>2007</b> , 16, 194-208	1.5	38
83	A Comparison of Reaction Mechanisms for Reversible Addition-Fragmentation Chain Transfer Polymerization Using Modeling Tools. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2006</b> , 43, 1293-1322	2.2	33
82	Effect of phosphate concentration on the production of dextransucrase by <i>Leuconostoc mesenteroides</i> NRRL B512F. <i>Bioprocess and Biosystems Engineering</i> , <b>2003</b> , 26, 57-62	3.7	32
81	Silver nanoparticles coated with dodecanethiol used as fillers in non-cytotoxic and antifungal PBAT surface based on nanocomposites. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 800-807	8.3	27
80	Controlled Free-Radical Copolymerization Kinetics of Styrene and Divinylbenzene by Bimolecular NMRP using TEMPO and Dibenzoyl Peroxide. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2006</b> , 43, 995-1011	2.2	26

79	Assessing the Importance of Diffusion-Controlled Effects on Polymerization Rate and Molecular Weight Development in Nitroxide-Mediated Radical Polymerization of Styrene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2007</b> , 44, 193-203	2.2	25
78	The effect of maltose on dextran yield and molecular weight distribution. <i>Bioprocess and Biosystems Engineering</i> , <b>2005</b> , 28, 9-14	3.7	25
77	A Protocol for the Estimation of Parameters in Process Models: Case Studies with Polymerization Scenarios. <i>Macromolecular Theory and Simulations</i> , <b>2004</b> , 13, 115-132	1.5	23
76	Environmentally friendly polymer composites based on PBAT reinforced with natural fibers from the amazon forest. <i>Polymer Composites</i> , <b>2019</b> , 40, 3351-3360	3	23
75	Effect of the addition of inert or TEMPO-capped prepolymer on polymerization rate and molecular weight development in the nitroxide-mediated radical polymerization of styrene. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 3665-3678	2.9	22
74	Multizone circulating reactor modeling for gas-phase polymerization. I. Reactor modeling. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 1042-1052	2.9	22
73	Another Perspective on the Nitroxide Mediated Radical Polymerization (NMRP) of Styrene Using 2,2,6,6-Tetramethyl-1-piperidinyloxy (TEMPO) and Dibenzoyl Peroxide (BPO). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2007</b> , 44, 337-349	2.2	21
72	LDPE-based composites reinforced with surface modified cellulose fibres: 3D morphological and morphometrical analyses to understand the improved mechanical performance. <i>European Polymer Journal</i> , <b>2019</b> , 117, 105-113	5.2	19
71	Síntese e caracterizaçã de Nanocompósitos Esfoliados de Poliestireno: Hidrãido Duplo Lamelar via polimerizaçã in situ. <i>Polimeros</i> , <b>2011</b> , 21, 34-38	1.6	19
70	Cellulose nanocrystal-based poly(butylene adipate-co-terephthalate) nanocomposites covered with antimicrobial silver thin films. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, E356	2.3	19
69	A replicated investigation of nitroxide-mediated radical polymerization of styrene over a range of reaction conditions. <i>Canadian Journal of Chemical Engineering</i> , <b>2008</b> , 86, 879-892	2.3	18
68	Optimizing panose production by modeling and simulation using factorial design and surface response analysis. <i>Journal of Food Engineering</i> , <b>2006</b> , 75, 433-440	6	18
67	Fluidized-bed reactor modeling for polyethylene production. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 321-332	2.9	16
66	A Combined Computational and Experimental Study on the Polymerization of $\epsilon$ -Caprolactone. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 13387-13395	3.9	16
65	In situ synthesis, morphology, and thermal properties of polystyrene/MgAl layered double hydroxide nanocomposites. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 1754-1760	2.3	15
64	Synthesis and characterization of LDHs/PMMA nanocomposites: Effect of two different intercalated anions on the mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 1764-1770	2.9	14
63	Styrene ATRP using the new initiator 2,2,2-tribromoethanol: Experimental and simulation approach. <i>Polymer Engineering and Science</i> , <b>2015</b> , 55, 2270-2276	2.3	14
62	Thermal polymerization of styrene in the presence of TEMPO. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 304-312	4.4	14

61	Effect of initiator type and concentration on polymerization rate and molecular weight in the bimolecular nitroxide-mediated radical polymerization of styrene. <i>Advances in Polymer Technology</i> , <b>2010</b> , 29, 11-19	1.9	14
60	Optimization of reaction conditions in functionalized polystyrene synthesis via ATRP by simulations and factorial design. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 1795-1810	2.4	13
59	Polystyrene/kaolinite nanocomposite synthesis and characterization via in situ emulsion polymerization. <i>Polymer Bulletin</i> , <b>2015</b> , 72, 387-404	2.4	13
58	Nitroxide-mediated radical copolymerization of styrene and divinylbenzene: increased polymerization rate by using TBEC as initiator. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1878-1884	4.3	13
57	Simulation of temperature effect on the structure control of polystyrene obtained by atom-transfer radical polymerization. <i>Polimeros</i> , <b>2016</b> , 26, 313-319	1.6	13
56	Numerical simulation and parametric study of solution ARGET ATRP of styrene. <i>Computational Materials Science</i> , <b>2016</b> , 124, 211-219	3.2	13
55	Correlation between water absorption and mechanical properties of polyamide 6 filled with layered double hydroxides (LDH). <i>Materials Research Express</i> , <b>2018</b> , 5, 065004	1.7	13
54	Multizone circulating reactor modeling for gas-phase polymerization. II. Reactor operating with gas barrier in the downer section. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 1053-1059	2.9	12
53	Ultrathin polymer fibers hybridized with bioactive ceramics: A review on fundamental pathways of electrospinning towards bone regeneration. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 111853	8.3	12
52	Kinetic modeling of atom-transfer radical polymerization: inclusion of break reactions in the mechanism. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 2105-2119	2.4	12
51	Encapsulation of N,N-diethyl-meta-toluamide (DEET) via miniemulsion polymerization for temperature controlled release. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47139	2.9	12
50	Nitroxide-mediated radical polymerization of styrene using mono- and di-functional initiators. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 5240-5244	4.4	11
49	Inverse modeling applications in emulsion polymerization of vinyl acetate. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 3159-3167	4.4	11
48	APPLICATION OF NEURAL NETWORKS FOR THE DEFINITION OF THE OPERATING CONDITIONS OF FLUIDIZED BED POLYMERIZATION REACTORS. <i>Polymer-Plastics Technology and Engineering</i> , <b>2002</b> , 10, 181-192		11
47	Silver nanoparticles incorporated into nanostructured biopolymer membranes produced by electrospinning: a study of antimicrobial activity. <i>Brazilian Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 51, 911-921	1.8	10
46	Fluidized-bed reactor and physical-chemical properties modeling for polyethylene production. <i>Computers and Chemical Engineering</i> , <b>1999</b> , 23, S803-S806	4	10
45	Synthesis and characterization of biodegradable poly(l-lactide)/layered double hydroxide nanocomposites. <i>Polymer Bulletin</i> , <b>2014</b> , 71, 2235-2245	2.4	9
44	Effect of Layered Double Hydroxides on the Mechanical, Thermal, and Fire Properties of Poly(methyl methacrylate) Nanocomposites. <i>Advances in Polymer Technology</i> , <b>2013</b> , 32, E660-E674	1.9	9

43	Continuous polymerization in tubular reactors with prepolymerization: Analysis using two-dimensional phenomenological model and hybrid model with neural networks. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 871-882	2.9	9
42	Layered double hydroxides as fillers in poly(L-lactide) nanocomposites, obtained by in situ bulk polymerization. <i>Polimeros</i> , <b>2016</b> , 26, 106-114	1.6	9
41	Tin(II) 2-ethylhexanoate and ascorbic acid as reducing agents in solution ARGET ATRP: A kinetic study approach by mathematical modeling and simulation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 186-200	14.7	8
40	Evaluation of the effect of dry-film biocides on paint film preservation using neural networks. <i>Brazilian Journal of Chemical Engineering</i> , <b>2010</b> , 27, 643-651	1.7	8
39	Kinetics of Nitroxide Mediated Radical Polymerization of Styrene with Unimolecular Initiators. <i>Macromolecular Symposia</i> , <b>2010</b> , 289, 95-107	0.8	8
38	Modeling Insights on the TEMPO Mediated Radical Polymerization of Styrene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2011</b> , 48, 681-687	2.2	7
37	Preparaço e avaliaço de nanocompsitos de poliestireno - hidrxido duplo lamelar HDL de ZnAl <sub>2</sub> organofuncionalizado com laurato/palmitato. <i>Polimeros</i> , <b>2015</b> , 25, 117-124	1.6	6
36	Emulsion Polymerization of Styrene Mediated by TEMPO at Low Temperature. <i>Macromolecular Reaction Engineering</i> , <b>2012</b> , 6, 516-522	1.5	6
35	COMPARATIVE TRENDS OF COPOLYMERIZATIONS INVOLVING ALPHA METHYL STYRENE AT ELEVATED TEMPERATURES 1*. <i>Polymer-Plastics Technology and Engineering</i> , <b>2002</b> , 10, 285-309		6
34	Developing an educational software for heat exchangers and heat exchanger networks projects. <i>Computers and Chemical Engineering</i> , <b>2000</b> , 24, 1247-1251	4	6
33	The economics of the detailed design of heat exchanger networks using the Bell Delaware method. <i>Computers and Chemical Engineering</i> , <b>2000</b> , 24, 1349-1353	4	6
32	Sntese e caracterizaço de nanocompsitos de poliestireno/hidroxissal lamelar. <i>Quimica Nova</i> , <b>2014</b> , 37, 18-21	1.6	5
31	Artificial neural networks towards average properties targets in styrene ARGET-ATRP. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 126999	14.7	5
30	Vegetable Oils Acting as Encapsulated Bioactives and Costabilizers in Miniemulsion Polymerization Reactions. <i>European Journal of Lipid Science and Technology</i> , <b>2018</b> , 120, 1700130	3	4
29	Bifunctional initiators on the polymerization of vinyl acetate. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 1711-1716	2.9	4
28	Simulation of the Equilibrium Constant Effect on the Kinetics and Average Properties of Polystyrene Obtained by ATRP. <i>Journal of the Brazilian Chemical Society</i> , <b>2013</b> ,	1.5	4
27	New emulsion polymerization tubular reactor with internal angular baffles: Reaction temperature effect. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 2572-2581	2.9	4
26	Heterogeneous modeling of fluidized bed polymerization reactors. Influence of mass diffusion into the polymer particle. <i>Computers and Chemical Engineering</i> , <b>2002</b> , 26, 841-848	4	4

25	Artificial Neural Networks Associated to Calorimetric Measurements Used as a Method to Predict Polymer Composition of High Solid Content Emulsion Copolymerizations. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 485-494	3.9	4
24	Fluidized bed reactor for polyethylene production. The influence of polyethylene prepolymerization. <i>Brazilian Journal of Chemical Engineering</i> , <b>2000</b> , 17, 163-170	1.7	4
23	In situ synthesis of polystyrene nanocomposites with layered double hydroxide with an unusual anion arrangement: Morphology and thermal and mechanical properties. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	4
22	Comparison between cellulose nanocrystal and microfibrillated cellulose as reinforcement of poly(vinyl acetate) composites obtained by either in situ emulsion polymerization or a simple mixing technique. <i>Cellulose</i> , <b>2021</b> , 28, 2273-2286	5.5	4
21	Development of Polymer Resins using Neural Networks. <i>Polimeros</i> , <b>2002</b> , 12, 164-170	1.6	3
20	Development of a software to simulate free radical polymerization of linear and branched polymer using mono- and Bi- functional initiators. <i>Computer Aided Chemical Engineering</i> , <b>2005</b> , 445-450	0.6	3
19	Modeling and simulation of high-pressure industrial autoclave polyethylene reactor. <i>EXPRESS Polymer Letters</i> , <b>2008</b> , 2, 57-64	3.4	3
18	Effect of layered hydroxide salts, produced by two different methods, on the mechanical and thermal properties of poly(methyl methacrylate). <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 1065-1074	2.3	3
17	Evaluation of Organically Modified Layered Double Hydroxides as Fillers for the Preparation of Polymer Nanocomposites in Miniemulsion Polymerization. <i>Macromolecular Reaction Engineering</i> , <b>2020</b> , 14, 1900049	1.5	2
16	Predição do comportamento térmico de tubos compostos através de redes neurais. <i>Polimeros</i> , <b>2004</b> , 14, 295-300	1.6	2
15	Modeling of Ring Opening Polymerization: A short review with insights on how to develop the method of moments. <i>Chemical Engineering Science</i> , <b>2021</b> , 246, 116934	4.4	2
14	Synthesis and analysis of phase segregation of polystyrene-block-poly(methyl methacrylate) copolymer obtained by Steglich esterification from semitelechelic blocks of polystyrene and poly(methyl methacrylate). <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49416	2.9	2
13	Enhancement of Mechanical and Thermal Properties of Poly(L-lactide) Nanocomposites Filled with Synthetic Layered Compounds. <i>International Journal of Polymer Science</i> , <b>2017</b> , 2017, 1-8	2.4	1
12	AN ALTERNATIVE ROUTE TO PRODUCE STANDARDS FOR GEL PERMEATION CHROMATOGRAPHY USING NITROXIDE MEDIATED POLYMERIZATION. <i>Brazilian Journal of Chemical Engineering</i> , <b>2017</b> , 34, 283-293	1.7	1
11	Living free radical polymerization using cyclic trifunctional initiator. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 3900-3904	2.9	1
10	Finite volume method as the numerical method for new emulsion polymerization tubular reactor with internal angle baffles. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 6037-6048	2.9	1
9	Modelling and simulation of high pressure industrial autoclave polyethylene reactor. <i>Computer Aided Chemical Engineering</i> , <b>2006</b> , 21, 639-644	0.6	1
8	The fluidized bed reactor with a prepolymerization system and its influence on polymer physicochemical characteristics. <i>Brazilian Journal of Chemical Engineering</i> , <b>2003</b> , 20, 171-179	1.7	1

7	Electromagnetic evaluation of radar absorbing materials based on conducting polypyrrole and organic/inorganic nanocomposite of polypyrrole/kaolinite. <i>Journal of Applied Polymer Science</i> , <b>2022</b> , 139, 52023	2.9	1
6	Effect of Lignin without Surface Treatment in In Situ Methyl Methacrylate Miniemulsion Polymerization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 3219-3226	8.3	0
5	Cellulose nanocrystals as initiator of ring-opening polymerization of $\epsilon$ -caprolactone: Mathematical modeling and experimental verification. <i>European Polymer Journal</i> , <b>2022</b> , 170, 111171	5.2	0
4	Polystyrene Produced by a Multifunctional Initiator. <i>Computer Aided Chemical Engineering</i> , <b>2009</b> , 1077-1088	10.8	0
3	Simulaç�o num�rica aplicada para avaliar o efeito da pr�polimerizaç�o no comportamento de reatores tubulares. <i>Polimeros</i> , <b>2007</b> , 17, 250-257	1.6	0
2	A Practical Approach To Simulate Polymerizations with Minimal Information. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 2634-2648	3.9	0
1	Synthesis of heat exchanger networks considering stream splitting and the rigorous calculation of the heat transfer coefficient according to the bell delaware method. <i>Computer Aided Chemical Engineering</i> , <b>2000</b> , 1027-1032	0.6	0