# Talita Martins Lacerda

List of Publications by Year
in descending order



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|---|---|---|---|
| 92 papers | 10,377 citations | 70961 41 h-index | 43802 91 g-index |
| 100 all docs | 100 docs citations | 100 times ranked | 9477 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Polymers from Renewable Resources: A Challenge for the Future of Macromolecular Materials. Macromolecules, 2008, 41, 9491-9504. | 2.2 | 985 |
| 2 | The irruption of polymers from renewable resources on the scene of macromolecular science and technology. Green Chemistry, 2011, 13, 1061. | 4.6 | 610 |
| 3 | Progress of Polymers from Renewable Resources: Furans, Vegetable Oils, and Polysaccharides. Chemical Reviews, 2016, 116, 1637-1669. | 23.0 | 610 |
| 4 | Furans in polymer chemistry. Progress in Polymer Science, 1997, 22, 1203-1379. | 11.8 | 601 |
| 5 | The furan/maleimide Dielsâ€“Alder reaction: A versatile clickâ€“unclick tool in macromolecular synthesis. Progress in Polymer Science, 2013, 38, 1-29. | 11.8 | 576 |
| 6 | From monomers to polymers from renewable resources: Recent advances. Progress in Polymer Science, 2015, 48, 1-39. | 11.8 | 530 |
| 7 | Recent Catalytic Advances in the Chemistry of Substituted Furans from Carbohydrates and in the Ensuing Polymers. Topics in Catalysis, 2004, 27, 11-30. | 1.3 | 524 |
| 8 | Recent advances in surface-modified cellulose nanofibrils. Progress in Polymer Science, 2019, 88, 241-264. | 11.8 | 447 |
| 9 | The furan counterpart of poly(ethylene terephthalate): An alternative material based on renewable resources. Journal of Polymer Science Part A, 2009, 47, 295-298. | 2.5 | 425 |
| 10 | Acid-Catalyzed Polycondensation of Furfuryl Alcohol:Â Mechanisms of Chromophore Formation and Cross-Linking. Macromolecules, 1996, 29, 3839-3850. | 2.2 | 365 |
| 11 | Synthesis and characterization of poly(2,5â€furan dicarboxylate)s based on a variety of diols. Journal of Polymer Science Part A, 2011, 49, 3759-3768. | 2.5 | 305 |
| 12 | Dielsâˆ’Alder Reactions with Novel Polymeric Dienes and Dienophiles:Â Synthesis of Reversibly Cross-Linked Elastomers. Macromolecules, 2002, 35, 7246-7253. | 2.2 | 266 |
| 13 | Furans as offspring of sugars and polysaccharides and progenitors of a family of remarkable polymers: a review of recent progress. Polymer Chemistry, 2010, 1, 245-251. | 1.9 | 264 |
| 14 | Materials from renewable resources based on furan monomers and furan chemistry: work in progress. Journal of Materials Chemistry, 2009, 19, 8656. | 6.7 | 224 |
| 15 | Application of the Dielsâˆ’Alder Reaction to Polymers Bearing Furan Moieties. 2. Dielsâˆ’Alder and Retro-Dielsâˆ’Alder Reactions Involving Furan Rings in Some Styrene Copolymers. Macromolecules, 1998, 31, 314-321. | 2.2 | 206 |
| 16 | Turning polysaccharides into hydrophobic materials: a critical review. Part 1. Cellulose. Cellulose, 2010, 17, 875-889. | 2.4 | 185 |
| 17 | New biocomposites based on thermoplastic starch and bacterial cellulose. Composites Science and Technology, 2009, 69, 2163-2168. | 3.8 | 168 |
| 18 | Turning polysaccharides into hydrophobic materials: a critical review. Part 2. Hemicelluloses, chitin/chitosan, starch, pectin and alginates. Cellulose, 2010, 17, 1045-1065. | 2.4 | 146 |

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|---|---|---|---|
| 19 | Recycling Tires? Reversible Crosslinking of Poly(butadiene). Advanced Materials, 2015, 27, 2242-2245. | 11.1 | 135 |
| 20 | The behaviour of furan derivatives in polymerization reactions. Advances in Polymer Science, 1977, , 47-96. | 0.4 | 128 |
| 21 | Transparent bionanocomposites with improved properties prepared from acetylated bacterial cellulose and poly(lactic acid) through a simple approach. Green Chemistry, 2011, 13, 419. | 4.6 | 126 |
| 22 | Renewable Polymers from Itaconic Acid by Polycondensation and Ring-Opening-Metathesis Polymerization. Macromolecules, 2015, 48, 1398-1403. | 2.2 | 106 |
| 23 | Urethanes and polyurethanes bearing furan moieties. 4. Synthesis, kinetics and characterization of linear polymers. Macromolecules, 1993, 26, 6706-6717. | 2.2 | 99 |
| 24 | Synthesis and characterization of furanic polyamides. Macromolecules, 1991, 24, 830-835. | 2.2 | 98 |
| 25 | Acrylated vegetable oils as photocrosslinkable materials. Journal of Applied Polymer Science, 2006, 99, 3218-3221. | 1.3 | 98 |
| 26 | Novel bacterial celluloseâ€“acrylic resin nanocomposites. Composites Science and Technology, 2010, 70, 1148-1153. | 3.8 | 96 |
| 27 | Surface grafting of cellulose nanocrystals with natural antimicrobial rosin mixture using a green process. Carbohydrate Polymers, 2016, 137, 1-8. | 5.1 | 91 |
| 28 | Novel materials based on chitosan and cellulose. Polymer International, 2011, 60, 875-882. | 1.6 | 89 |
| 29 | Biosurfactants production by yeasts using sugarcane bagasse hemicellulosic hydrolysate as new sustainable alternative for lignocellulosic biorefineries. Industrial Crops and Products, 2019, 129, 212-223. | 2.5 | 77 |
| 30 | N-(furfural) chitosan hydrogels based on Dielsâ€“Alder cycloadditions and application as microspheres for controlled drug release. Carbohydrate Polymers, 2015, 128, 220-227. | 5.1 | 71 |
| 31 | Thermoplastic starch modification during melt processing: Hydrolysis catalyzed by carboxylic acids. Carbohydrate Polymers, 2005, 62, 387-390. | 5.1 | 70 |
| 32 | What Is the Real Value of Chitosanâ€™s Surface Energy?. Biomacromolecules, 2008, 9, 610-614. | 2.6 | 70 |
| 33 | Simple Green Approach to Reinforce Natural Rubber with Bacterial Cellulose Nanofibers. Biomacromolecules, 2013, 14, 2667-2674. | 2.6 | 67 |
| 34 | Preparation of acrylated and urethanated triacylglycerols. European Journal of Lipid Science and Technology, 2006, 108, 411-420. | 1.0 | 58 |
| 35 | Formation of polymeric films on cellulosic surfaces by admicellar polymerization. Cellulose, 2001, 8, 303-312. | 2.4 | 56 |
| 36 | Exopolysaccharide (pullulan) production from sugarcane bagasse hydrolysate aiming to favor the development of biorefineries. International Journal of Biological Macromolecules, 2019, 127, 169-177. | 3.6 | 53 |

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| 37 | Novel suberinâ€based biopolyesters: From synthesis to properties. Journal of Polymer Science Part A, 2011, 49, 2281-2291. | 2.5 | 48 |
| 38 | The bulk oxypropylation of chitin and chitosan and the characterization of the ensuing polyols. Green Chemistry, 2008, 10, 93-97. | 4.6 | 45 |
| 39 | Reversible polymerization of novel monomers bearing furan and plant oil moieties: a double click exploitation of renewable resources. RSC Advances, 2012, 2, 2966. | 1.7 | 44 |
| 40 | Thermoreversible nonlinear dielsâ€alder polymerization of furan/plant oil monomers. Journal of Polymer Science Part A, 2013, 51, 2260-2270. | 2.5 | 43 |
| 41 | Polyesters bearing furan moieties, 2. A detailed investigation of the polytransesterification of difuranic diesters with different diols. Macromolecular Chemistry and Physics, 1998, 199, 2755-2765. | 1.1 | 43 |
| 42 | Synthesis of 2-furfurylmaleimide and preliminary study of its Diels-Alder polycondensation. Polymer Bulletin, 1998, 40, 389-394. | 1.7 | 40 |
| 43 | Self-reinforced composites obtained by the partial oxypropylation of cellulose fibers. 1. Characterization of the materials obtained with different types of fibers. Carbohydrate Polymers, 2009, 76, 437-442. | 5.1 | 39 |
| 44 | Reversible click chemistry at the service of macromolecular materials. Part 4: Dielsâ€"Alder non-linear polycondensations involving polyfunctional furan and maleimide monomers. Polymer Chemistry, 2013, 4, 1364-1371. | 1.9 | 39 |
| 45 | Macromolecular materials based on the application of the Dielsâ€"Alder reaction to natural polymers and plant oils. European Journal of Lipid Science and Technology, 2018, 120, 1700091. | 1.0 | 39 |
| 46 | Polymeric Schiff Bases Bearing Furan Moieties 2. Polyazines and Polyazomethines. Polymer International, 1996, 40, 33-39. | 1.6 | 38 |
| 47 | Polymers and copolymers from fatty acid-based monomers. Industrial Crops and Products, 2010, 32, 97-104. | 2.5 | 38 |
| 48 | A Double Click Strategy Applied to the Reversible Polymerization of Furan/Vegetable Oil Monomers. Macromolecular Rapid Communications, 2011, 32, 1319-1323. | 2.0 | 36 |
| 49 | Polymers and Oligomers Containing Furan Rings. ACS Symposium Series, 1990, , 195-208. | 0.5 | 34 |
| 50 | Photocrosslinkable polymers bearing pendant conjugated heterocyclic chromophores. Polymer, 2002, 43, 3505-3510. | 1.8 | 34 |
| 51 | Materials from Renewable Resources. MRS Bulletin, 2010, 35, 187-193. | 1.7 | 32 |
| 52 | Two alternative approaches to the Dielsâ€"Alder polymerization of tung oil. RSC Advances, 2014, 4, 26829. | 1.7 | 32 |
| 53 | Furan Polymers: State of the Art and Perspectives. Macromolecular Materials and Engineering, 2022, 307, . | 1.7 | 31 |
| 54 | Synthesis of aliphatic suberin-like polyesters by ecofriendly catalytic systems. High Performance Polymers, 2012, 24, 4-8. | 0.8 | 29 |

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| 55 | A straightforward double coupling of furan moieties onto epoxidized triglycerides: synthesis of monomers based on two renewable resources. Green Chemistry, 2013, 15, 1514. | 4.6 | 29 |
| 56 | Sisal cellulose acetates obtained from heterogeneous reactions. EXPRESS Polymer Letters, 2008, 2, 423-428. | 1.1 | 29 |
| 57 | Furanâ€"polyether-modified chitosans as photosensitive polymer electrolytes. Polymer, 2003, 44, 7565-7572. | 1.8 | 27 |
| 58 | Synthesis, characterization and photocross-linking of copolymers of furan and aliphatic hydroxyethylesters prepared by transesterification. Polymer, 2005, 46, 5476-5483. | 1.8 | 27 |
| 59 | Self-reinforced composites obtained by the partial oxypropylation of cellulose fibers. 2. Effect of catalyst on the mechanical and dynamic mechanical properties. Cellulose, 2009, 16, 239-246. | 2.4 | 27 |
| 60 | A Sustainable Route to a Terephthalic Acid Precursor. ChemSusChem, 2016, 9, 942-945. | 3.6 | 26 |
| 61 | Effect of acid concentration and pulp properties on hydrolysis reactions of mercerized sisal. Carbohydrate Polymers, 2013, 93, 347-356. | 5.1 | 25 |
| 62 | A new approach to blending starch with natural rubber. Polymer International, 2015, 64, 605-610. | 1.6 | 25 |
| 63 | Furan-modified natural rubber: A substrate for its reversible crosslinking and for clicking it onto nanocellulose. International Journal of Biological Macromolecules, 2017, 95, 762-768. | 3.6 | 25 |
| 64 | Thermally reversible nanocellulose hydrogels synthesized via the furan/maleimide Diels-Alder click reaction in water. International Journal of Biological Macromolecules, 2019, 141, 493-498. | 3.6 | 25 |
| 65 | Synthesis of amphiphilic pullulan-graft-poly(Îµ-caprolactone) via click chemistry. International Journal of Biological Macromolecules, 2020, 145, 701-711. | 3.6 | 24 |
| 66 | The Prospering of Macromolecular Materials Based on Plant Oils within the Blooming Field of Polymers from Renewable Resources. Polymers, 2021, 13, 1722. | 2.0 | 23 |
| 67 | Furanâ€"chitosan hydrogels based on click chemistry. Iranian Polymer Journal (English Edition), 2015, 24, 349-357. | 1.3 | 20 |
| 68 | Saccharification of Brazilian sisal pulp: evaluating the impact of mercerization on non-hydrolyzed pulp and hydrolysis products. Cellulose, 2012, 19, 351-362. | 2.4 | 19 |
| 69 | Copolymers of xylan-derived furfuryl alcohol and natural oligomeric tung oil derivatives. International Journal of Biological Macromolecules, 2020, 164, 2497-2511. | 3.6 | 19 |
| 70 | Monomers and Macromolecular Materials from Renewable Resources: State of the Art and Perspectives. Molecules, 2022, 27, 159. | 1.7 | 19 |
| 71 | Adding value to the Brazilian sisal: acid hydrolysis of its pulp seeking production of sugars and materials. Cellulose, 2012, 19, 975-992. | 2.4 | 18 |
| 72 | Oxalic acid as a catalyst for the hydrolysis of sisal pulp. Industrial Crops and Products, 2015, 71, 163-172. | 2.5 | 18 |

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| 73 | Enzymatic hydrolysis of mercerized and unmercerized sisal pulp. Cellulose, 2017, 24, 2437-2453. | 2.4 | 17 |
| 74 | Photoreactive furan derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 174, 222-228. | 2.0 | 16 |
| 75 | The Surface and In-Depth Modification of Cellulose Fibers. Advances in Polymer Science, 2015, , 169-206. | 0.4 | 16 |
| 76 | Recent advances in the production of biomedical systems based on polyhydroxyalkanoates and exopolysaccharides. International Journal of Biological Macromolecules, 2021, 183, 1514-1539. | 3.6 | 16 |
| 77 | A preliminary study of polyureas and poly(parabanic acid)s incorporating furan rings. Polymer Bulletin, 2006, 57, 43-50. | 1.7 | 15 |
| 78 | The cationic polymerization of tung oil and its fatty-acid methyl ester. Industrial Crops and Products, 2020, 157, 112886. | 2.5 | 14 |
| 79 | Thermoreversible crosslinked thermoplastic starch. Polymer International, 2015, 64, 1366-1372. | 1.6 | 13 |
| 80 | A minimalist furanâ€“maleimide AB-type monomer and its thermally reversible Dielsâ€“Alder polymerization. RSC Advances, 2016, 6, 45696-45700. | 1.7 | 13 |
| 81 | Sleeving nanocelluloses by admicellar polymerization. Journal of Colloid and Interface Science, 2013, 408, 256-258. | 5.0 | 12 |
| 82 | A Novel Approach for the Synthesis of Thermoâ€Responsive Coâ€Polyesters Incorporating Reversible Dielsâ€“Alder Adducts. Macromolecular Chemistry and Physics, 2019, 220, 1900247. | 1.1 | 12 |
| 83 | Marriage of Furans and Vegetable Oils through Click Chemistry for the Preparation of Macromolecular Materials. Journal of Renewable Materials, 2014, 2, 2-12. | 1.1 | 10 |
| 84 | 2-Furyloxirane: II. Reduction, Hydrolysis, Alcoholysis and the Uncatalysed Polymerization Induced byOH Groups. Polymer International, 1996, 41, 427-435. | 1.6 | 9 |
| 85 | Furfuryl alcohol/tung oil matrix-based composites reinforced with bacterial cellulose fibres. Cellulose, 2021, 28, 7109-7121. | 2.4 | 9 |
| 86 | New Oligomers and Polymers Bearing Furan Moieties. ACS Symposium Series, 2001, , 98-109. | 0.5 | 8 |
| 87 | Chemical Modification of Pullulan Exopolysaccharide by Grafting Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBHV) via Click Chemistry. Polymers, 2020, 12, 2527. | 2.0 | 8 |
| 88 | Investigating effects of high cellulase concentration on the enzymatic hydrolysis of the sisal cellulosic pulp. International Journal of Biological Macromolecules, 2019, 138, 919-926. | 3.6 | 7 |
| 89 | The contribution of bisfurfurylamine to the development and properties of polyureas. Polymer International, 2020, 69, 688-692. | 1.6 | 6 |
| 90 | Crosslinking starch with dielsâ€alder reaction: <scp>Waterâ€Soluble</scp> materials and waterâ€mediated processes. Polymer International, 0, , . | 1.6 | 4 |

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| 91 | Development of pullulanâ€based carriers for controlled release of hydrophobic ingredients. Journal of Applied Polymer Science, 2021, 138, 51344. | 1.3 | 3 |
| 92 | Biomimetic Biomaterials Based on Polysaccharides: Recent Progress and Future Perspectives. Macromolecular Chemistry and Physics, 2022, 223, . | 1.1 | 2 |