

Fernanda Andrade Tigre da Costa

Websites & Social Links

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Country

Brazil

Keywords

Biodegradation, Biopolymers, PBAT/TPS blends, Chayote starch, PLA/PBAT blends, Compatibilization by gamma irradiation, Nanocellulose

Biography

Doctoral student in Sciences in the area of Nuclear Technology - Materials, at the Nuclear and Energy Research Institute (IPEN) of the Universidade de São Paulo (USP). Chemical Engineer graduated from Universidade São Francisco (USF). Has experience in the field of research and chemistry, with an emphasis on polymers, working mainly on the following themes: biodegradation mechanism, polymer blends, biopolymers, gamma radiation compatibility, degradation by UV light, thermal analysis and biodegradation in simulated soil. Received a award with honorable mention for the work presented at the XXV São Francisco University Scientific Initiation Meeting in 2019. Nominated by the University of São Francisco to compete for the CNPq Outstanding Award of the Year in Scientific Initiation in 2020. Received the Lavoisier Award from CNPq for the Diploma of Honor to the Merit for the best graduate student in Chemical Engineering at Universidade São Francisco on the Bragança Paulista campus in 2020. Also works as a process analyst at the company Santher.

Employment (2)

PhD Researcher: Grenoble, FR

2023-10 to present | (MatBio team at LGP2 - Grenoble INP Pagora)

Santher, Fábrica de Papel Santa Therezinha S/A: Bragança Paulista, São Paulo, BR

2019 to 2023-09 | Process Analyst (Production)

Education and qualifications (3)

Grenoble Alpes University: Saint-Martin-d'Hères, FR

2023-10 to present | PhD in Multiscale biobased materials (LGP2 - Grenoble INP Pagora)
Education

Nuclear and Energy Research Institute - IPEN-CNEN/ SP: São Paulo, BR

2021-08-09 to present | Doctorate Education

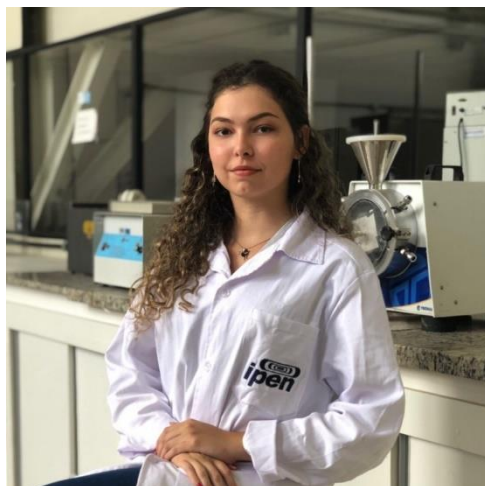
Universidade São Francisco: Bragança Paulista, SP, BR

2016-02-01 to 2020-12-20 | Engenharia Química Education

Awards and distinctions (2)

Conselho Regional de Química IV Região: São Paulo, BR

2020 | Lavoisier Award - Diploma of Honor and Medal of Merit for Best Undergraduate Student in Chemical Engineering at Universidade São Francisco on the campus of Bragança Paulista from 2016 to 2020



Universidade São Francisco: Bragança Paulista, BR

2019 | Honorable mention for the work entitled "Effect of accelerated aging by ultraviolet radiation on the biodegradation of PBAT/TPS films" (XXV Encontro de Iniciação Científica)

Works (5 of 5)

Compatibilization of poly(butylene adipate-co-terephthalate)/polylactic acid blends by gamma radiation

Polymer Bulletin

2024-07-13 | journal-article

DOI: 10.1007/s00289-024-05428-1

Part of ISSN: 0170-0839

Part of ISSN: 1436-2449

PLA, PBAT, Cellulose Nanocrystals (CNCs), and Their Blends: Biodegradation, Compatibilization, and Nanoparticle Interactions

Journal of Polymers and the Environment

2023-11 | journal-article

DOI: 10.1007/s10924-023-02899-7

Part of ISSN: 1566-2543

Part of ISSN: 1572-8919

DESENVOLVIMENTO DE BIOPOLÍMERO A PARTIR DO AMIDO DE CHUCHU E AVALIAÇÃO DA INCORPORAÇÃO DO RESÍDUO DE CAFÉ E ÓLEO DE BURITI

Engenharia Moderna: Soluções para Problemas da Sociedade e da Indústria 2

2021-04-19 | book-chapter

DOI: 10.22533/at.ed.99821130411

Part of ISBN: 9786557069998

AVALIAÇÃO DA BIODEGRADAÇÃO E ENVELHECIMENTO ACELERADO POR RADIAÇÃO ULTRAVIOLETA NA BLENDAS PBAT/TPS

Engenharia Moderna: Soluções para Problemas da Sociedade e da Indústria

2020-10-06 | book-chapter

DOI: 10.22533/at.ed.4672028098

Part of ISBN: 9786557064467

AVALIAÇÃO DA BIODEGRADAÇÃO DA BLENDAS POLI(BUTILENO ADIPATO CO-TEREFTALATO)/AMIDO TERMOPLÁSTICO EM DIFERENTES CONDIÇÕES DE SOLO SIMULADO

Ensaio USF

2018-12-10 | journal-article DOI: 10.24933/eusf.v2i1.110

Part of ISSN: 2595-1300