Fundings:

1.1.1 SEI Process 01241.000126/2021-47
Title: Development of a rapid and portable test for detecting infectious diseases
Funder: SibratecNano
Coordinator: Dr. Talita Mazon
Resources: R$ 390,138.00 (SibratecNano) and counterpart R$ 19,506.95 (Vistobio).
Status: Concluded in December 2023.

1.1.2 SEI Process 01241.000091/2022-27
Title: Development of a portable electrochemical test for multiplex diagnosis of neglected vector-borne diseases
Funder: FINEP and Vyttra
Coordinator: Dr. Talita Mazon
Resources: R$ 1,621,300.80 (FINEP) and R$ 189,000.00 (Vyttra Diagnósticos)
Status: Agreement signed and published in the Official Gazette on 20/10/2022. In progress.

1.1.3 SEI Process 01241.000742/2022-89
Project Title: Point-of-care device based on electrochemical biosensors and CRISPR for the diagnosis of rare diseases
Funder: FINEP
Coordinator: Dr. Talita Mazon
Resources: R$ 1,354,692.36 (FINEP) and R$ 40,816.00 (Laboratório Vistobio)
Status: Agreement signed and published in the Official Gazette on 11/08/2023. In progress.

1.2 Collaboration in Projects/Proposals submitted by the Employee or by other Institutions

1.2.1 CNPQ - Call No. 21/2023 (Category B) - Transdisciplinary Studies in Public Health
Title: Development of multiplex rapid tests associated with AI for the simultaneous diagnosis of socially determined diseases (SDD) Dengue, Leishmaniasis, Leprosy, and Paracoccidioidomycosis
Funder: CNPq - Process 445443/2023-5
Coordinator at CTI: Dr. Talita Mazon
Collaborator at CTI: Dr. Rodrigo Bonacin
Amount: R$ 500,200.00
Status: In progress since 28/12/2023

1.2.2 CNPQ/MCTI No. 10/2023 - Category A - Emerging Groups
Title: Effect of microplastics on the metabolism of bone cells: investigation of mechanisms involved in osteoporosis
Funder: CNPq - Process 420462/2023-6
Coordinator at FMC/UNICAMP: Dr. Rodrigo Bueno de Oliveira
Collaborator at CTI: Dr. Talita Mazon
Amount: R$ 125,800.00
Status: In progress since 01/02/2024

1.2.3 CEPDI/FAPESP
Title: CDMF - Center for the Development of Functional Materials
Funder: FAPESP
Coordinator: Prof. Dr. Elson Longo (UFSCar)
Coordinator at CTI: Dr. Talita Mazon
Amount: ~R$ 18 million
Status: In progress since 2015

Articles published in the last 5 years:

Título	Citado por	Ano
Application of NiFe2O4 nanoparticles towards the detection of ovarian cancer marker I Maghiani, LV Souza, L Bach-Toledo, AM Faria, PP Ortega, RAC Amoresi, ... Materials Research Bulletin 177, 112835		2024
Point-of-Care Electrochemical Immunosensor Applied against Nosocomial Infection: *Staphylococcus aureus* Detection in Human Hand Skin HA de Godoy, AM Faria, NAV Roza, L Bach-Toledo, FM Simabuco, ... ACS Infectious Diseases		2024
Methane-derived electrochemical sensor for determination of paracetamol and diquat BS de Sá, JS Stefano, LRG e Silva, TM Perfecto, T Mazon, DP Volanti, ... Materials Chemistry and Physics 315, 129025		2024
Room-temperature SnO2-based sensor with Pd-nanoparticles for real-time detection of CO dissolved gas in transformer oil AN Simões, GMMM Lustosa, E de Souza Morita, AN de Souza, F Torres, ... Materials Chemistry and Physics 311, 128576	2	2024
Applying CeO2 nanorods in flexible electrochemical immunosensor to detect C-reactive protein RAC Amoresi, NAV Roza, T Mazon Journal of Electroanalytical Chemistry 935, 117353	3	2023
Interfacial characterization of polypyrrole/AuNP composites towards electrocatalysis of Ascorbic acid oxidation C Pesqueira, BM Hryniewicz, L Bach-Toledo, LN Tenório, LF Marchesi, ... Molecules 27 (18), 5776	5	2022
A triboelectric nanogenerator for energy harvesting from transformers' vibrations AN Simões, DJ Carvalho, ES Morita, HL Moretti, HV Vendrameto, L Fu, ... Machines 10 (3), 215	10	2022
Biochar/ZnO NRs based triboelectric nanogenerators for energy harvesting application AN Simões, WA Bizzo, T Mazon Proceedings of the 20. Brazil MRS Meeting		2022
Reoxidation of graphene oxide: Impact on the structure, chemical composition, morphology and dye adsorption properties CA Zito, TM Perfecto, T Mazon, AC Dippel, D Koziej, DP Volanti Applied Surface Science 567, 150774	11	2021
Application of Steel Spring on the ZnO Nanorods Self-Powered Triboelectric Nanogenerator for Efficient Energy Harvest in Transformers AN Simões, DJ Carvalho, E de Souza Morita, HV Vendrameto, L Fu, ... 2021 14th IEEE International Conference on Industry Applications (INDUSCON …	1	2021
Análise do Comportamento de Arquitetura Híbrida de Armazenamento de Energia Visando o Aumento da Vida Útil da Bateria Chumbo Ácido em Microrredes		2021

Título	Citado por	Ano
YF Fabre, AN de Souza, T Mazon, MA Ikeshoji, D Gastaldello, ... Galoá		
Comparação do desempenho de supercapacitores de compósitos baseados em óxidos@ biomassa de cana-de-açúcar B Bregadiolli, B Vessalli, AN de Souza, WA Bizzo, T Mazon Galoá		2021
Identification of Bacteria in Hospital Environments by Fluorescence Spectroscopy HA de Godoy, RB de Oliveira, RY Sano, T Mazon, AM Faria, AEC Antunes, ... Brazilian Technology Symposium, 66-71		2020
Microwave assisted synthesis of CuInGaSe2 quantum dots and spray deposition of their composites with graphene oxide derivatives KP Mubiayi, DMG Neto, A Morais, HP Nogueira, TE de Almeida Santos, ... Materials Chemistry and Physics 242, 122449	13	2020
Cassava-and bamboo-derived carbons with higher degree of graphitization for energy storage SB Mujib, B Vessalli, WA Bizzo, T Mazon, G Singh Nanomaterials and Energy 9 (1), 54-65	13	2020
Cassava-and bamboo-derived carbons with higher degree of graphitization for energy storage S Bin Mujib, B Vessalli, WA Bizzo, T Mazon, G Singh NANOMATERIALS AND ENERGY 9 (1), 54	2	2020
Author correction: controlling parameters and characteristics of electrochemical biosensors for enhanced detection of 8-hydroxy-2′-deoxyguanosine AM Faria, EBMI Peixoto, CB Adamo, A Flacker, E Longo, T Mazon Scientific Reports 10	1	2020
Early diagnosis of Zika infection using a ZnO nanostructures-based rapid electrochemical biosensor AM Faria, T Mazon Talanta 203, 153-160	68	2019
Controlling parameters and characteristics of electrochemical biosensors for enhanced detection of 8-hydroxy-2′-deoxyguanosine AM Faria, EBMI Peixoto, CB Adamo, A Flacker, E Longo, T Mazon Scientific reports 9 (1), 7411	22	2019