IDENTIFYING INFORMATION:

NAME: Rodrigues, Debora

ORCID iD: https://orcid.org/0000-0002-3124-1443

POSITION TITLE: Chair and Dean's Professor

PRIMARY ORGANIZATION AND LOCATION: Clemson University, Department of Environmental Engineering and Earth Sciences, CLEMSON, South Carolina, United States

Professional Preparation:

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Yale University, New Haven, CT, US	Postdoctoral researchers	06/2010	Chemical Engineering
Michigan State University, East Lansing, MI, US	Ph.D.	05/2007	Microbiology and Molecular Genetics
Universidade de Sao Paulo Campus da Capital, Sao Paulo, SP, BR	Masters of Science	08/2002	Microbiology
Universidade de Sao Paulo Campus da Capital, Sao Paulo, SP, BR	Bachelor	12/1999	Biology

Appointments and Positions

2024 - present	Chair and Dean's Professor, Clemson University, Department of Environmental Engineering and Earth Sciences, CLEMSON, South Carolina, United States
2023 - 2024	Director of the Environmental Engineering Graduate Program, University of houston, Houston, Texas, United States
2022 - 2023	Partnership for Innovation Program Officer, National Science Foundatoin, Alexandria, Virginia, Virginia, United States
2020 - 2024	Ezekiel Cullen Professor, University of Houston, Civil and Environmental Engineering, Houston, Texas, United States
2016 - 2020	Associate Professor, University of Houston, Civil and Environmental Engineering, Houston, TX, US
2010 - 2016	Assistant Professor, University of Houston, Civil and Environmental Engineering, Houston, TX, US
2000 - 2000	Environmental Consultant, Ambiterra Ltda., Sao Paulo, Sao Paulo, BR

Products

Products Most Closely Related to the Proposed Project

1. Lapeñas L, Peña-Bahamonde J, Nguyen H, de Luna M, Rodrigues D. Manganese ferrite nanoparticle-algal cell interaction mechanisms for potential application in microalgae harvesting. Cleaner Chemical Engineering. 2022 December; 4:100061-. Available from: https://linkinghub.elsevier.com/retrieve/pii/S2772782322000596 DOI: 10.1016/j.clce.2022.100061
2. Herrera G, Paudel S, Lupini S, Astete C, Sabliov C, Rodrigues D. Biodegradable nanoparticles aid the gut microbial community in delaying antibiotic resistance emergence. Environmental

Science: Nano. 2024; :-. Available from: https://xlink.rsc.org/?DOI=D4EN00382A DOI: 10.1039/D4EN00382A

3. Peña-Bahamonde J, Herrera G, Lupini S, Arabaghian H, Rodrigues D. Zein Nanoparticles for Controlled Intestinal Drug Release for the Treatment of Gastrointestinal Infections. ACS Applied Nano Materials. 2023 November 15; 6(23):21707-21720. Available from: https://pubs.acs.org/doi/10.1021/acsanm.3c03923 DOI: 10.1021/acsanm.3c03923
4. Fanourakis S, Barroga S, Mathew R, Peña-Bahamonde J, Louie S, Perez J, Rodrigues D. Use of polyaniline coating on magnetic MoO3 and its effects on material stability and visible-light photocatalysis of tetracycline. Journal of Environmental Chemical Engineering. 2022 June; 10(3):107635-. Available from: https://linkinghub.elsevier.com/retrieve/pii/S2213343722005085 DOI: 10.1016/j.jece.2022.107635
5. Barroga S, Perez J, Rodrigues D. Visible Light Photocatalytic Degradation of Methylene Blue Using Polypyrrole-Coated Molybdenum-Based Magnetic Photocatalyst. Materials Science Forum. 2022 February 17; 1053:397-404. Available from: https://www.scientific.net/MSF.1053.397 DOI: 10.4028/p-f8llu7

Other Significant Products, Whether or Not Related to the Proposed Project

1. Chaves-Lopez C, Nguyen HN, Oliveira RC, Nadres ET, Paparella A, Rodrigues DF. A morphological, enzymatic and metabolic approach to elucidate apoptotic-like cell death in fungi exposed to h- and α-molybdenum trioxide nanoparticles. Nanoscale. 2018 Nov 15;10(44):20702-20716. PubMed PMID: 30398279.
2. Neelgund GM, Aguilar SF, Kurkuri MD, Rodrigues DF, Ray RL. Elevated Adsorption of Lead and Arsenic over Silver Nanoparticles Deposited on Poly(amidoamine) Grafted Carbon Nanotubes. Nanomaterials (Basel). 2022 Nov 1;12(21) PubMed Central PMCID: PMC9654323.
3. Bandara PC, Peña-Bahamonde J, Rodrigues DF. Redox mechanisms of conversion of Cr(VI) to Cr(III) by graphene oxide-polymer composite. Sci Rep. 2020 Jun 8;10(1):9237. PubMed Central PMCID: PMC7280210.
4. Wang M, Zuo X, Jacovone RMS, O'Hara R, Mondal AN, Asatekin A, Rodrigues DF. Influence of zwitterionic amphiphilic copolymers on heterogeneous gypsum formation: A promising approach for scaling resistance. Water Res. 2024 Sep 12;266:122439. PubMed PMID: 39307081.
5. Bandara PC, Ibañez de Santi Ferrara F, Nguyen H, Santos G, Shih WC, Rodrigues DF. Investigation of Thermal Properties of Graphene-Coated Membranes by Laser Irradiation to Remove Biofoulants. Environ Sci Technol. 2019 Jan 15;53(2):903-911. PubMed PMID: 30562456.

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not limited to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment

program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Rodrigues, Debora in SciENcv on 2024-10-07 12:34:29