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He is graduated in Chemistry at Universidad de las Américas-Puebla (México) under supervision of Prof. Marco Antonio Quiroz Alfaro. After a work experience in Ciba-Specialty Chemicals (currently, BASF), he moved to Ferrara (Italy) where he received his PhD in Chemical Sciences at the University of Ferrara under supervision of Prof. Achille De Battisti. During the same period, he worked as visiting scientist in the group of Prof. Christos Comninellis at the EPFL Institute (Switzerland). From since 2005 to 2008, he has served as faculty member in the Department of Chemistry at the University of Milan (Italy). In 2008, he also moved to Brazil where he currently is a Full Professor in the Institute of Chemistry at the Federal University of Rio Grande do Norte. He was awarded with the “Oronzio and Niccolò De Nora Foundation Prize” by the Italian Chemical Society (2005) and the “Oronzio and Niccolò De Nora Foundation Prize on Environmental Electrochemistry” by the International Society of Electrochemistry (ISE) (2009). He was also recognized by German Government with the “Green Talent Award” for his contributions in the field of electrochemical water disinfection-treatment (2009). In 2023, the Royal Society of Chemistry (RSC) was nominated as a Fellow. He is the author and co-author of more than 475 scientific publications, including conference books, book chapters, books, and more than 375 papers in peer-reviewed international scientific journals (h-index of 66, >22000 citations), papers in national scientific journals, more than 90 contributions in conference proceedings and a co-inventor of 7 patents. He is co-editor of the books entitled “Synthetic Diamond Films” (Wiley & Sons) and “Electrochemical Water and Wastewater Treatment” (Elsevier). He is an editorial member of several journals (Applied Catalysis B: Environmental (Elsevier), Current Opinion in Electrochemistry (Elsevier), ACS ES&T Water (American Chemical Society), Journal Chemistry (Hindawi-Springer), SN Applied Sciences (Springer), ChemElectroChem (Wiley), ChemPhysChem (Wiley), Critical Reviews in Environmental Science and Technology (Taylor & Francis Group), Chemical Sciences (RSC), Functional Diamond (Taylor & Francis Group)) and an Associate Editor in Scientific Reports (Nature), Critical Reviews in Environmental Science and Technology (Critical Reviews in Environmental Science and Technology (Taylor & Francis), Chemistry Africa and Discover Water (Springer). Guest Editor of Special Issues in the journals, such as Current Opinion in Electrochemistry, Current Opinion in Solid State and Materials Science, ChemElectroChem, Science of the Total Environment, Materials, Applied Sciences, Electrochimica Acta, Environmental Research, Scientific Reports, Applied Research, Chemosphere, as well as he serves as reviewer in innumerable international journals. His research interests include electrochemical advanced oxidation processes for water treatment, diamond electrochemistry, electrocatalytic materials, electrocatalysis, photoelectrocatalysis, electroorganic synthesis, electroanalysis as well as the construction of electrochemical-sensors, green hydrogen production and waste valorization. He participated as general chair of organizing committee of the XXI Simpósio Brasileiro de Eletroquímica e Eletroanalítica - SIBEE (2017), IV Iberoamerican Conference on Advanced Oxidation Processes - CIPOA (2019), Brazil; and 39th Topical Meeting of ISE in Natal (2025). Currently, he is member of different international societies, the Past-President of the Brazilian Society of Electrochemistry and Electroanalysis, Past-Chair of International Society of Electrochemistry of the Division 5 and co-Founder of Network Latin-AOPs. He was a visiting scientist in the Institut für Organische Chemie at the Johannes Gutenberg-Universität Mainz (Germany) supported by Alexander von Humboldt Foundation during 2018, 2020 and 2021, at the Universidad de Castilla – La Mancha (Spain) in 2022 and at the Universidade de Alagoas (Brazil) in 2023. He is also a project’s reviewer for The RSC, Science Foundation of Ireland – SFI, Fundação de Apoio à Pesquisa e à Inovação Tecnológica do Estado de Sergipe - FAPITEC/SE, Trialect Funding – HFSP, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – CAPES, and Conselho Nacional de Desenvolvimento Científico e Tecnológico – CNPq.

