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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. 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 (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). He is author and co-author of more than 400 scientific publications, including conference books, book chapters, books, more than 250 papers in peer-reviewed international scientific journals (h-index of 48, > 12000 citations), papers in national scientific journals, more than 80 contributions in conference proceedings and a co-inventor of 4 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), ACS ES&T Water (ACS), Journal Chemistry (Hindawi-Springer), SN Applied Sciences (Springer) and an Associate Editor in Scientific Reports (Nature). His research interests include electrochemical advanced oxidation processes for water treatment, 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) and IV Iberoamerican Conference on Advanced Oxidation Processes - CIPOA (2019), Brazil; and he will be the International Workshop on Advanced Electrochemical Oxidation for Water Reuse - ELO.WatR general chair, 2022. Currently, he is member of different international environmental societies, the President of the Brazilian Society of Electrochemistry and Electroanalysis, Chair Elect of ISE Division 5 and 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). He has also conducted his research at the École Polytechnique Fédérale de Lausanne (Switzerland), Keio University (Japan), Università di Milan (Italy), Universidade Estadual Paulista “Júlio de Mesquita Filho” - (Brazil), Centro Conjunto de Investigación en Química Sustentable UAEMéx-UNAM (México), Universidad de Santiago de Chile (Chile), Université Paris-Est Marne-la-Vallée (France), Universidad de las Américas – Puebla (México) and Universidad de Castilla – La Mancha (Spain).

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