

MARIA J. RIVERO

Dr. Maria J. Rivero is Associate Professor since 2012 and carries out her activity in the Department of Chemical and Biomolecular Engineering of the University of Cantabria. Trained as an Industrial Engineer in the specialty of Industrial Chemistry, she obtained a Doctorate from the University of Cantabria in 2002. Most of her research has been focused on the treatment of aqueous streams. She began working on membrane separation processes, ion exchange and adsorption; to continue with Advanced Oxidation Processes (AOPs) such as Fenton, photo-Fenton, electrochemical oxidation, and photocatalysis.

After a 6-month postdoctoral stay at Cranfield University (United Kingdom) she has dedicated much of her research to improve the design of photocatalytic reactors with the aim of optimizing the energy efficiency, for example through the use of new systems of LED lighting. In this same field of expertise, she is currently working on the application of new catalysts both for contaminants of emerging concern removal and photocatalytic generation of hydrogen.

This research is supported by more than 60 articles published in indexed journals, mostly in the first quartile of the categories of Chemical Engineering and Environmental Sciences. She has participated continuously in more than 25 research projects of competitive calls (5 as main researcher), 1 international project funded by AECID, 4 financed by the European Commission in Interreg calls, 1 EIG concert Japan call, 10 collaboration contracts with companies (4 as main researcher) and she has submitted more than 130 communications to international conferences.

Regarding institutional positions in the university, she has participated as Academic Head of Chemical Engineering (UC) (2006-2007), Deputy Director of the Department of Chemical Engineering and Inorganic Chemistry (UC) (2009-2012) and Director of the Department of Engineering Chemistry and Inorganic Chemistry (UC) (2012-2014). At the moment, she is Coordinator of the Master's Degree in Chemical Engineering of the UPV/EHU-UC (2019-).

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