

Miguel García Tecedor (MSc. Applied Physics, 2013, PhD. Physics 2017, both at Universidad Complutense de Madrid, UCM) is a Senior Assistant Researcher at the Photoactivated Processes Unit, at IMDEA Energy (Móstoles, Spain).

During his PhD, he developed his research at the FINE (Physics of Electronic Nanomaterials) group at UCM, under the supervision of Prof. Ana Cremades and Prof. David Maestre, on the growth and characterization of nanostructures of semiconductor oxides and their possible applications in optoelectronic devices. In 2015, he joined the Institute for Energy Technology (IFE), located in Kjeller, Norway, where he focused on the synthesis and characterization of organic-inorganic composites for the passivation of silicon solar cells, in the framework of the European project SUSOX. In July 2017, Miguel took a position as Research Scientist at the Institute of Advanced Materials (INAM) at Universitat Jaume I, under the supervision of Prof. Sixto Giménez, to develop novel strategies for (photo)electrocatalytic (PEC) applications, such as water splitting and CO<sub>2</sub> reduction, in the framework of the European Project A-LEAF. Since he joined the INAM, he was focused on the optimization and the understanding of physical processes in integrated PEC devices by different electrical, optical and chemical spectroscopies. In March 2021, Miguel joined the Photoactivated Processes Unit, headed by Dr. Víctor A. de la Peña O'Shea, at IMDEA Energy as the researcher in charge of the experimental activities of the European Project HYSOLCHEM, focused on photoelectrocatalytic approaches towards wastewater oxidation, CO<sub>2</sub> photoelectroreduction and N<sub>2</sub> fixation. In 2023 he was awarded with the prestigious *La Caixa* Junior Leader Fellowship to develop the project RESTORE (Solar Fuels Generation Through a Hybrid Photoelectrocatalytic Tandem Cell). Recently, in 2024, Miguel has been awarded with the prestigious *Ramón y Cajal* contract, granted by the *Ministerio de Ciencia e Innovación del Gobierno de España* to continue his research on the synthesis and characterization of novel materials for the generation of solar fuels through (photo)electrocatalytic routes, coupled with chemical reactions of high interest.

Miguel is co-author of 45 scientific papers, 3 patents, and 1 book chapter. He has already participated in 14 research projects (5 European), being principal investigator in 3, and he has also participated in 37 international scientific conferences. Additionally, Miguel has completed several research stays in international scientific institutions, as Imperial College London, Università degli Studi di Messina, Universidade do Porto (UPORTO) and Institut Català d'Investigació Química (ICIQ) and performed several experiments at international singular facilities as Elettra, ALBA and Diamond synchrotrons. He also has an extended outreach activity reflected on two online blogs, one dissemination article and several transfer activities. Miguel has also peer-reviewed over 75 articles for international journals as *Energy and Environmental Science*, *Nature Communications*, *Nanotechnology*, etc. Recently, Miguel has been awarded with the R3 certificate from *Agencia Española de Investigación* and also got the accreditations of *Prof. Ayudante Doctor*, *Prof. Contratado Doctor* and *Prof. de Universidad Privada* from ANECA.