

Dr. Rebeca Marcilla received her PhD in Chemistry in 2006 from the University of the Basque Country (UPV/EHU) in the field of ionic liquids and polymers with application in electrochemistry and nanotechnology. She was awarded by the specialized group of polymers of the RSEQ-GEP with the prize for the "*Best doctoral thesis in Polymers of the 2005-2006 biennium*". After a postdoctoral stay at the University College London (2008) she joined CIDETEC (Centro de Tecnologías Electroquímicas, Donostia-San Sebastian). In 2010, Dr. Rebeca Marcilla joined the Electrochemical Processes Unit of the IMDEA Energy Institute as a postdoctoral researcher. In 2012, she was awarded with a Ramon y Cajal contract, and in 2015, she was promoted to Senior Researcher.

During her fruitful scientific career, she has acquired proven experience in advanced materials for energy storage (eg. ionic liquids, polymer electrolytes, redox-active polymers, etc) and in next-generation batteries including organic batteries and redox flow batteries. She has co-authored 8 patents (3 of them licensed to private companies) and published more than 130 scientific publications (h-index = 50 and >7,700 citations, Scopus (Oct 2024)), with ~90% of her publications among the top 25% most cited in their topic. She has also disseminated her scientific results in international congresses and workshops (>30 oral), participating as keynote and invited speaker in the most relevant international congresses (>15 Invited/Keynotes). She has supervised 14 PhD thesis (7 presented+7 on-going). Notably, she appears among the 2% of the most influential researchers worldwide according to the ranking prepared annually by Stanford University.

Moreover, Dr. Marcilla has participated in more than 30 Research projects (Regional, National, European and direct contracts with industry) being Principal Investigator (PI) in 20 of them. In 2017, she was awarded with an ERC Consolidator Grant to develop a new concept of membrane-free redox flow battery. Besides the ERC, she is currently PI of four on-going European projects including 2 Marie-Curie ETN (Polystorage, eNargiZinc), 1 FET-Proactive (Light-cap), 1 EIC Pathfinder (Mebattery). Moreover, she has been PI of 4 consecutive research projects of the Spanish National Plan, and PI of 3 Networks of Excellence.

Dr. Marcilla has served as expert reviewer in numerous evaluation panels of the AEI (Spanish State Research Agency) including Ramón y Cajal call (2019), Retos de Investigación (2020), and also for the European Commission including ERC Consolidator Grant (2022), Marie Curie Actions (2022-2023) and European Innovation Council (2024). Moreover, she was appointed as manager of scientific area of "Material Science" in the AEI in the period 2019-2022.

Moreover, Dr. Marcilla is member of the Governing Board of the Electrochemistry Group of the Spanish Royal Society of Chemistry (GEE-RSEQ). She has been an Editor for the *Journal Power Sources* since 2023 and Guest Editor for Green Chemistry at the Royal Society of Chemistry (2024). Dr. Marcilla is organizing the MATSUS 2025 conference (> 500 participants), and she chaired the GENBAT Symposium at MATSUS 2024. Furthermore, she is organizing the Symposium 5 on "New Battery Chemistries" for the 76th ISE Annual Meeting in 2025.