



## MARIO MARTIN GAMBOA

**Panel Member – Task Force on Social Sustainability & Acceptance**

Email: [mario.mgamboa@urjc.es](mailto:mario.mgamboa@urjc.es)

Mario Martín Gamboa is a researcher at Rey Juan Carlos University (Madrid), where he holds a César Nombela Senior Research Fellowship from the Community of Madrid and the R3 certificate as established researcher. He holds a PhD in Industrial Technologies from Rey Juan Carlos University (2017), an MSc in Renewable Energies, Fuel Cells and Hydrogen from CSIC-UIMP (2014), and a BSc in Environmental Sciences from Rey Juan Carlos University (2013). He has more than ten years of experience developing and applying advanced sustainability assessment methodologies with a life-cycle perspective to energy and hydrogen systems, integrating Life Cycle Assessment, Life Cycle Costing and Social Life Cycle Assessment with prospective modelling, criticality analysis and circularity assessment.

His research focuses on identifying opportunities to improve the sustainability of production and consumption systems across environmental, economic, social and technical dimensions. In the hydrogen domain, he has led the sustainability work packages of international projects including HySolChem and BiowastetoH<sub>2</sub>, evaluating hydrogen production routes from environmental, techno-economic and social perspectives. He coordinated a European Commission service contract with the Joint Research Centre (JRC) on the social life-cycle impacts of hydrogen technologies and value chains in Europe, covering labour conditions, value-chain risks, governance aspects and critical raw material dependencies. He is the main author of the SH<sub>2</sub>E LCSA Guidebook, a harmonised framework for the life-cycle sustainability assessment of fuel-cell and hydrogen technologies, and contributed to the HyTechCycling (FCH-JU/H2020) project on end-of-life strategies and recycling options for hydrogen technologies.

Beyond hydrogen, Mario serves as principal investigator of the SMARTER project on sustainability monitoring of raw materials for the clean energy transition in Spain, the ASSISTANCE project on the social impacts of the Spanish electricity mix transition, and a service contract with CINEA (European Commission) on gender balance in research and innovation for the energy transition. He has participated in more than 25 research projects and contracts at national and international level.

Mario is President of the Spanish LCA Association (esLCA), Editor-in-Chief of the international journal *Cleaner Environmental Systems* (Elsevier), and expert evaluator for the European Commission and the National Science Centre of Poland. He has published 40 scientific publications (37 in JCR journals, 35 in Q1), 5 book chapters and more than 45 contributions to international conferences, with 1,525 citations (Scopus), 2060 (Google Scholar) and an h-index of 27. He has supervised four doctoral theses and more than 15 BSc and MSc students, as well as has taught over 1,000 hours in official and non-official degree programmes, including as guest lecturer at the Graduate School of Energy and Environment of Korea University.