

Sara Garcia Ballesteros - CV

Dr. Sara Garcia-Ballesteros is a MSCA Postdoctoral Researcher at the Polytechnic University of Turin (Italy), working in the field of sustainable energy technologies. Her research focuses on electrocatalysis and electrochemical reactor engineering for green ammonia production from nitrogenous species under mild conditions. She develops innovative processes for chemical energy storage, wastewater valorization, and energy-efficient water treatment, integrating chemometric tools for process optimization. She is actively involved in national and EU research projects (e.g., MSCA GREENER, NO-GAP), contributing to the development of novel electrolyte systems and circular strategies for nitrogen conversion and resource recovery. Her background includes a Ph.D. in Chemical Engineering (Polytechnic University of Valencia, Spain), where she worked on solar-driven advanced oxidation processes and waste-based reagents. Her scientific record includes international collaborations in Argentina, Italy, and Croatia, and 24 peer-reviewed publications (h-index 17, >380 citations)