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During 2004-2006 she was on a Postdoctoral stay at the Energy Engineering Institute of the Technische Universität Berlin, Germany. Since then, she has participated in several research projects dealing with Exergy Analysis in energy conversion processes. Her research interest focuses on thermodynamic optimization of energy systems through exergy methods, (exergoeconomic, exergoenvironmental,...) or process integration.

She is co-author of a number of papers indexed in the JCR (h-index =11), 8 book chapters and two books. She has also co-directed 23 M. Sc. and two Ph.D. Theses. She has participated in several projects obtained through agreements with private companies and she is co-author of one patent.

Prof. Blanco-Marigorta has been Visiting Professor at the Technische Universität Berlin (Germany), the Università degli Studi di Firenze (Italy) and the Escuela Superior Politécnica del Litoral, Guayaquil (Ecuador). She has participated in two training innovation projects regarding energy-water interactions, and more specifically in the area of Water Management and Desalination Engineering.

She has participated in numerous international conferences and has been Member of the organizing and/or scientific committees of national and international conferences (e.g. ASME: IMECE – International Mechanical Engineering Congress and Exposition, ECOS - International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems or SDEWES - Dubrovnik Conference on Sustainable Development of Energy, Water and Environmental Systems. She is reviewer of international journals, (e.g. Desalination, Energy, Energy Conversion and Management,...) and she is a member of the Editorial Board of the Internacional Environmental Energy and Economics International Research Journal.