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"Smart Platforms for Energy Storage devices and Bio/Sensors Based on Two-dimensional Materials and Micro/nanorobots for Environmental Remediation and Bio/sensing "

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Short biography

Dr. Carmen Mayorga, hold a PhD in Biological Sciences from the National University of Tucuman-Argentina (2009) after she being awarded a National Scientific and Technical Research Council (CONICET)/Argentina doctoral fellowship. From 2009 until 2011, she was awarded with a Post-Doctoral fellowship by CONICET/Argentina. Subsequently, she was hired as a postdoctoral researcher staff of ICN2, Barcelona-Spain under the supervision of Professor Arben Merkoçi for 3 years. Following that, she moved to Nanyang Technological University of Singapore (2015 to 2017) as a research fellow under Professor Martin Pumera. At the end of 2017, Professor Pumera moved to the University of Chemistry and Technology (UCT) in Prague to establish the Centre for Advanced Functional Nanorobots, and she was hired as a senior scientist and concurrently as Kralupy unit leader (part of the Centre for Advanced Functional Nanorobots). Her research focuses on two research topics: (i) electrochemical studies of advanced nanomaterials such as nanoparticles and novel two-dimensional layered materials to obtain advanced and smart devices for biomedical applications, environmental control and energy generation and storage; as well as (ii) development of micro/nanomotors from various new materials to yield different power propulsion for sensing and pollutant remediation applications. Throughout her scientific research career, she has published around 100 research articles in various respected peer-reviewed journals.