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PROF. Marianna Caivano

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SCIENTIFIC CURRICULUM VITAE:

Dr. Marianna Caivano is a research fellow at the University of Basilicata in the School of Engineering. After obtaining her Master's Degree in 2013, she received her PhD in Engineering for Innovation and Sustainable Development at the School of Engineering of the University of Basilicata in 2017, with a thesis titled "Novel criteria to evaluate energy consumption and GreenHouse Gas emissions in wastewater treatment plants: towards a decision support tool for minimizing environmental impacts of water cycle".

Environmental Engineering is her main field of interest, with a focus in the Design and Management of wastewater treatment plants. Particularly, her cutting edge research pinpoints on greenhouse gas emissions and energy consumption of integrated urban drainage systems (sewage, wastewater treatment plant, receiving-water body). In 2015, she worked at the Civil and Environmental Engineering Department of University of California - Irvine (USA) as a visiting researcher, within an international research staff exchange scheme (CARbon BALAncing for nutrient control in wastewater treatment - CARBALA), strengthening her modelling skills as well as developing new strategies to integrate single innovative bio-technologies into suitable treatment configurations.

Currently, her scientific activity concerns the evaluation of greenhouse gas emissions from waste landfills, application of innovative chemical-physical and biological techniques for reclaiming contaminated water and soils from hydrocarbons, particularly ozonation, biodegradation via fungal species, adsorption on carbon-based and low-cost materials.

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PROFESSOR'S OFFICE HOUR: The teacher is always available to meet the students. However, a notice could be needed via email.

Room 24, 5<sup>th</sup> floor, School of Engineering, University of Basilicata, Potenza.

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