# Special Issue

# Wastewater Treatment: Membranes and Adsorptive Processes

## Message from the Guest Editor

Many conventional and non-conventional technologies are employed to treat different types of wastewater in order to meet the legal requirements for discharge or reuse. Membrane and adsorptive processes have proven to be promising options to removal of contaminants and/or recover valuable compounds present in wastewaters. This Special Issue aims to gather papers that emphasize the significant importance of separation processes based on adsorption/ion-exchange and membrane technologies in wastewater treatment. It is intended to cover the synthesis of novel adsorbents and membranes, understanding of the mass transport mechanisms, treatment strategies, modeling and simulation studies, design and evaluation of |techno-economic feasibility. Potential topics include, but are not limited to:New adsorbents and materials for membrane synthesis for water and wastewater treatment

- Recovery of valuable metals by adsorption and ion-exchange
- Adsorption of organic pollutants
- Integration of membrane processes to recover high-added value compounds from agro-industrial wastewaters
- Membrane processes for wastewater reuse
- Membrane bioreactors technology

## Guest Editor

Dr. Licínio M. Gando-Ferreira

Chemical Process Engineering and Forest Products Research Centre, University of Coimbra, Coimbra, Portugal

## Deadline for manuscript submissions

closed (20 December 2021)

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*Water*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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# About the Journal

## Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

## Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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