

Special Issue

The Role of Anaerobic MBR for Resources Recovery in a Circular Economy Context

Message from the Guest Editor

The current management of the urban wastewater and the organic fraction of municipal solid waste is mostly based on aerobic processes (mostly activated sludge systems and composting, respectively), which are known as energy consuming technologies. However, the new Circular Economy (CE) framework, together with the increasing need for a reduction in greenhouse gas emissions (see, e.g., European Green Deal) will guide the future tendency in policy making and encourage the use of more sustainable technologies. With the currently used aerobic processes, energy is consumed to oxidize organic matter and nitrogen to CO₂ and NO_x, which contribute directly and indirectly to global warming while resources such as organic matter and nutrients are eliminated. In contrast, anaerobic-based systems allow recycling organic matter (transformed to biogas as an energy resource) and nutrients (nitrogen and phosphorus) from organic waste and wastewater. [...] For further reading, please follow the link to the Special Issue Website
at: https://www.mdpi.com/journal/water/special_issues/MBR

Guest Editor

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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

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