Special Issue

Integration of Microalgal Based Processes in Wastewater Treatment

Message from the Guest Editor

The use of microalgae for wastewater treatment, also known as phycoremediation, has received growing interest in recent years, due to the potential low cost of the process and to the wide possibilities of resource recovery from microalgae from a circular economy perspective. However, microalgae-based treatments are strongly dependent on the local climate and their overall performance depends on the activity of both microalgae and bacteria, always present in wastewater and in open systems. Among the different research topics, the Special Issue will include:

- Evaluation of the specific contribution of microalgae and bacteria in wastewater treatment
- Long-term experiences at full and pilot scale: removal efficiency of nutrients, metals and emerging and priority pollutants, disinfection.
- Knowledge and management of limiting factors
- Causes of sudden failures in microalgae cultures, including parasites and other biological interactions
- Valorisation of the microalgal biomass (anaerobic digestion, bioethanol and biodiesel, biofertilizers, feed for animals and aquaculture, extraction of selected compounds).

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2020)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/23277

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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

Dr. Jean-Luc PROBST
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