



## Integration of Microalgal Based Processes in Wastewater Treatment

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### 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).





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