Special Issue

Nutrient Recovery from Wastewaters Using Microalgae-Based Systems and Potential Applications of the Produced Biomass

Message from the Guest Editor

Wastewater treatment using microalgae (including cyanobacteria)-based systems is currently a promising alternative to conventional biological treatment processes such as activated sludge. Microalgae-based wastewater treatment has gained significant research momentum as it can achieve high removal rates of both organic and inorganic nutrients. Additionally, biomass produced from the treatment process can be used to generate microalgae-based products (e.g., biofuels, biofertilizers, bioplastics, etc.) according to circular economy principles. As the physicochemical characteristics of wastewaters and photobioreactor operating conditions affect biomass growth rates, current research is still facing challenges to optimize these bioprocesses and achieve maximum nutrient recovery from different wastewater types thus making microalgae-based treatment systems sustainable at industrial scale. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Wastewaters_Microalgae

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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