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

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Message from the Guest Editor

Dear Colleagues,

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:

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Message from the Editor-in-Chief

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