

## Special Issue

# Microalgae-Based Systems for Wastewater Treatment and Sludge Management

### Message from the Guest Editors

Wastewater treatment is a pressing global challenge, with conventional methods often being energy-intensive and contributing to greenhouse gas emissions. Microalgae-based processes have emerged as a sustainable alternative, enabling the efficient removal of nutrients and organic and inorganic pollutants from various wastewater types, including municipal, industrial, and agricultural effluents. Beyond pollutant removal, microalgae cultivation facilitates carbon dioxide sequestration and generates biomass that can be valorized into biofuels, biofertilizers, and other high-value products, aligning with circular economy principles. However, the optimization of cultivation conditions, scalability, and economic feasibility remain challenges in its application. This Special Issue aims to showcase cutting-edge research on and developments in microalgae-based wastewater treatment systems. We invite contributions that explore innovative cultivation techniques, integration with existing treatment systems, and biomass valorization [...] for further reading, please follow the link to the Special Issue Website at: [https://www.mdpi.com/journal/cleantechnol/special\\_issues/4326R12XAW](https://www.mdpi.com/journal/cleantechnol/special_issues/4326R12XAW)

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### Deadline for manuscript submissions

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*Clean Technologies* (ISSN 2571-8797) is an international, open access journal of novel scientific research on technology development aimed at reducing the environmental impact of human activities. *Clean Technologies* publishes reviews, regular research papers, communications and short notes which show a significant advance in the development of sustainable technology that reduces energy consumption, environmental pollution and/or the use of water and nonrenewable resources. Our aim is to encourage scientists to publish their experimental and theoretical research in detail as open access, serving a trustable base of advance for the scientific community.

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### Editor-in-Chief

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