Special Issue

Pollutant Removal from Wastewater by Microalgae-Based Processes

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

Guest Editors

Dr. Ana Sofia Oliveira

1. LSRE-LCM—Laboratory of Separation and Reaction Engineering, Laboratory of Catalysis and Materials, Faculty of Engineering, University of Porto, Porto, Portugal
2. ALiCE—Associate Laboratory in Chemical Engineering, Faculty of Engineering, University of Porto, 4200-465 Porto, Portugal

Dr. Catarina Amorim

CBQF—Centro de Biotecnologia e Química Fina, Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa, 4169-005 Porto, Portugal

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Clean Technologies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cleantechnol@mdpi.com

mdpi.com/journal/cleantechnol

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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.

Editor-in-Chief

Prof. Dr. Patricia Luis Alconero
Materials & Process Engineering, UCLouvain, Place Sainte Barbe 2, 1348 Louvain-la-Neuve, Belgium

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