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Applications of Microalgae and Macroalgae in Water Treatment

Guest Editors:

Dr. Changliang Nie

Department of Environmental
Science and Engineering, Fudan
university, Shanghai, China

Dr. Chenxi Mi

Helmholtz Centre for
Environmental Research, 04318
Leipzig, Germany

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Message from the Guest Editors

Water contaminants threaten the environment and human society. Wastewater treatment and reuse are one of the solutions proposed for water-related environmental issues. Additionally, with “carbon neutralization” being proposed, new issues and challenges are evident for water treatment and reuse technologies. Macroalgae and microalgae-based technologies have been considered promising, coupling wastewater treatment and biomass production. Algae can consume undesired contaminants, e.g., carbon, nitrogen, and phosphorus, in water through their metabolism from effluents, producing carbon-neutralized biomass, e.g., carbohydrates, lipid, and protein. They are also adaptive to various types of wastewater. In this context, this Special Issue will focus on macroalgae and microalgae-based wastewater treatment technologies while highlighting the latest technology advancements. This topic welcomes high-quality research articles and state-of-the-art critical reviews.



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Special Issue



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Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, France

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.

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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