Special Issue

Biological Processes for Water and Wastewater Treatment

Message from the Guest Editors

As the human population increases and environmental requirements become more stringent, the need for sustainable water and wastewater management systems that meet regulatory standards and reduce energy consumption has become a top priority in the water industry. In addition, recycling and recovery of nutrients and renewable energy production from wastewater are major components of future smart cities. This includes novel technologies, including advanced materials for pollution control, the use of microalgae for advanced wastewater treatment and biomass production, sustainable approaches for water and wastewater management, and renewable (bio)energy productions.

In this Special Issue, we invite papers on the recent advance in biological processes for smart water and wastewater treatment and management, such as symbiotic microalgae–bacterial processes, photo-biohydrogen production from wastewater, bioelectrochemical systems (e.g., MFC and MEC), and harmful algal bloom (HABs) control as well as sensor application to health monitoring of biological processes for wastewater treatment.

Guest Editors

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Deadline for manuscript submissions

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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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