Special Issue

Innovative Technologies for Low-Carbon Biological Treatment of Wastewater

Message from the Guest Editors

Effective wastewater treatment is one of the key issues for water pollution control. Biological wastewater treatment is a mature, stable, and widely used process, which can effectively remove organic matter, nitrogen, phosphorus, and other pollutants. However, conventional biological wastewater treatment technologies consume high energy and emit greenhouse gases, such as carbon dioxide, methane, and nitrous oxide. Facing increasingly strict wastewater discharge standards and serious global warming issues, it is necessary to improve biological wastewater treatment technologies to meet the requirements of energy saving, low-carbon operation, and carbon neutrality. This Special Issue aims to gather the latest research advances in low-carbon-based biological wastewater treatment technologies, including the innovative technologies related to organic and nutrient removal processes with high efficacy and low resource consumption, effective resource recovery and reuse from wastewater, biological control of emerging pollutants, and reduction of greenhouse gas emission.

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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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