Special Issue

Perspectives on Sustainable Wastewater Treatment Technologies

Message from the Guest Editors

The field of wastewater treatment is rapidly evolving, yet many studies focus on individual technologies or processes. To achieve truly sustainable solutions, we must consider wastewater treatment plants (WWTPs) and/or wastewater resource recovery facilities (WRRFs) as integrated systems. This holistic approach often requires balancing local optimizations to achieve global optimal outcomes. The Special Issue "Perspectives on Sustainable Wastewater Treatment Technologies" in *Waters* aims to explore comprehensive, system-wide approaches to enhance the sustainability of wastewater treatment processes. We invite submissions that address the complex interplay of technologies, processes, and sustainability metrics within WWTPs/WRRFs. Comprehensive reviews and case studies comparing current and emerging wastewater treatment technologies are particularly welcome. These should focus on system-wide performance, considering factors such as energy consumption, emissions, and effluent quality. By examining WWTPs/WRRFs as integrated systems, we can better understand the trade-offs and synergies between different treatment stages and resource recovery options.

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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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