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The Transition of Water and Wastewater Treatment Plants into Facilities for Resources and Energy Production: Solutions and Innovation

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Deadline for manuscript submissions:
closed (25 December 2023)

Message from the Guest Editors

Dear Colleagues,

Water is a scarce resource and it has a close and intricate nexus with energy. Water and wastewater treament plants should move towards the circular economy and to face off the global energy demand. Hydrogen production from this natural source, both in its clean form and after its use in human applications, is studied in the attempt to optimize the efficiency reducing the costs, in the frame of a green circular economy.

This Special Issue contributes towards the United Nations' Sustainable Development Goals 6 and 7. It is open to papers that give new solutions on the Water and Energy Nexus. You are invited to submit original research and review articles focusing, but are not limited, on the following topics:

water resources management
clear water, wastewater, reclaimed water
recent advances in wastewater treatments
recovery of residues from wastewater treatment plants
hydrogen production
sustainable energy production and storage
water and carbon footprint assessment

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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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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