Special Issue

Industrial and Municipal Wastewater Treatment with a Focus on Water-Reuse

Message from the Guest Editors

Given the impact of climate change, it is becoming increasingly important to ensure a secure water supply in order to enable sustainable spatial development. To enable a secure water supply, alternative water sources must be generated to tackle the challenge of water scarcity since ground and surface water sources are often overexploited. An important alternative resource is the reuse of treated wastewater. Nowadays, water reuse processes are rarely considered and implemented. In contrast to the storage and use of rainwater, treated wastewater is a valuable resource, as it is available daily and in calculable quantities. Certain wastewater treatment processes within wastewater treatment plants are required to produce the new resource "reused water". The treatment processes depend on the quality of the wastewater inflow to the treatment plant since industrial and municipal wastewater flows are characterized, for example, by different concentrations. This Special Issue brings together new wastewater treatment technologies and emerging water reuse concepts to tackle the challenges of climate change.

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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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