

Integrated Approaches of the Water Use Cycle: Technical and Environmental Challenges for Sustainability

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manuscript submissions:**31 May 2020**

Message from the Guest Editors

Dear Colleagues,

We encourage you to submit papers for the Special Issue of *Water* focused on integrated approaches of water use cycle and their technical and environmental challenges for sustainability. The water use cycle (water abstraction, treatment, distribution, use, wastewater collection, wastewater treatment and discharge/reuse) is a system with high complexity, influenced by water use and wastewater management practices, water quality changes and uncertainties due to extreme weather phenomena (floods, droughts), accidental pollution or climate change. The goal of this complex system is to manage in an integrated way the water resources in order to control all potential hazards related to water use. Integrated approaches of environmental, technical, operational and management problems within the water use cycle may contribute to sustainable water use.

Papers for this Special Issue should consider innovative and integrated research on water treatment and distribution, wastewater treatment and recycling/reuse of water or materials recovery. Additionally, papers might describe approaches that integrate technical novelty and sustainability assessment instruments, e.g., life cycle assessment, carbon footprint, water footprint, sustainability indicators, etc. Case studies considering pilot or full scale applications of water/wastewater innovative technologies in the context of the circular economy and energy efficiency are suitable for this Special Issue.



Editor-in-Chief

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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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