



water

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Maintaining Disinfection and Disinfection By-Products Compliance via Water Treatment and Disinfection Control

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Message from the Guest Editor

Ensuring the quality of drinking water within distribution systems has become an increasingly challenging endeavor, exacerbated by stringent regulations, deteriorating raw water quality, and elevated temperatures resulting from climate change. Specifically, the application of water treatment, encompassing the removal of dissolved organic carbon and pre-oxidation processes, manifests a profound influence on the stability of disinfectants and curbing the formation of disinfection by-products (DBPs). Regrettably, the escalating expenses associated with heightened organic carbon removal pose a notable challenge. Hence, a judicious approach involves optimizing the treatment levels and strategically managing the dosing of disinfectants, thereby attaining optimal water quality at a justifiable cost.

This Special Issue is dedicated to elucidating the existing knowledge applicable to this pressing concern, encompassing both established practices and innovative techniques. The objective is to present new research on cost-effective solutions that can be employed to safeguard and enhance water quality in the face of these multifaceted challenges.



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Special Issue



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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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