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Water Quality in Drinking Water Distribution Systems

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submissions:
closed (31 January 2020)

Message from the Guest Editors

Safe drinking water is paramount for the health and wellbeing of all populations. Water is extracted from surface and groundwater sources and treated to comply with drinking water standards. The water is then circulated through the drinking water distribution system (DWDS). During travel within the DWDS, water quality can deteriorate due to microbiological growth, chemical reactions, interactions with ageing and deteriorating infrastructure, and through maintenance and repair activities. Some DWDS actions may serve to improve water quality, however, these can also adversely impact the drinking water system and cause instances of poor water quality or disease outbreaks.

We invite papers to examine DWDS design and operational practices and their impact on water quality. A wide range of water quality aspects are of interest, such as discoloration, water age, chlorination, biofilm, (fecal) contamination, etc. We welcome papers based on practical research in real DWDS and lab test facilities. We also welcome papers on novel modeling approaches.



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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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