



water



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Advances in Management of Urban Water Supply System

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Message from the Guest Editors

An efficient and reliable urban water supply system provides consumers adequate, continuous, and safe drinking water. Various water supply system components, including source, transmission, treatment, and distribution, significantly differ depending on the area's geographical and environmental settings. Global climate change has introduced new water scarcity challenges, particularly in semi-arid and arid regions. Developing countries have always contended with limited water supply and mostly rely on intermittent supplies manifesting various water quality problems. Conventional management practices must be revisited to address the above-stated challenges with innovative solutions. For instance, the following are just some of the topics fit for inclusion in this Special Issue:

- Customer-driven decision-making for improved reliability;
- Water–energy nexus-based performance assessment of conveyance systems and distribution networks;
- Application of artificial intelligence, big data, and machine learning for emerging pollutants controls and improvement of hydraulic performance;
- Circular economy-based analysis of urban water systems.



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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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