



Sustainable Management of Urban Water Resources

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Message from the Guest Editors

It is well known that currently 55% of the world's population live in urban areas, and this is predicted to grow to 68% by 2050, adding more than 2.5 billion people to urban populations. It is also projected that there will be 43 megacities worldwide by 2030, with populations of more than 10 million inhabitants. Most of these huge cities will be in developing regions. Many cities are therefore growing at rates that exceed their capacity to accommodate their increasing populations, with cities such as Cape Town, South Africa having had widely publicised struggles to maintain a secure and safe supply of water to residents. Other cities face similar problems, and the United Nations World Water Development Report, 2018, warned that by 2030, the global demand for fresh water is likely to exceed supply by 40%. Added to population growth, climate change has the potential to lead to changes in rainfall regimes, with the potential of increased flooding and drought. Currently, 1.2 billion people are at risk from flooding, but this is predicted to increase to about 1.6 billion by 2050; representing nearly 20% of the total world population.

To address this multicomplexity of issues approaches are needed that are flexible and have multiple benefits. In its World Water Development Report, 2018, the UN promotes the use of nature-based solutions to some of these problems, with the focus of Sustainable Development Goal 6 making sure that everyone has access to a safe and affordable supply of potable water and sanitation by 2030, requiring investment in suitable infrastructure across the world.

This Special Issue will cover the challenges faced in managing urban water in all its forms from potable supplies, to reuse and harvesting, as well as resilient and sustainable approaches developed to address flooding and drought. We are looking for articles worldwide, from formal and informal settlements and developed, transitioning and developing countries and welcome field studies, laboratory experiments, modelling and design.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/Management_Urban_Water



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Special Issue



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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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