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Green Infrastructures for Urban Water System: Balance between Cities and Nature

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Deadline for manuscript submissions:
closed (31 January 2020)

Message from the Guest Editors

Urban water systems face severe challenges, such as urbanization, population growth, and climate change. Traditional technical solutions, i.e., pipe-based, grey infrastructure, have a single purpose and are proven unsustainable compared to multipurpose nature-based solutions. Green Infrastructure encompasses onsite stormwater management practices, which, in contrast to the centralized grey infrastructure, are often decentralized.

Technologies such as green roofs and walls, trees, infiltration trenches, wetlands, rainwater harvesting, permeable pavement, etc. exhibit multifunctionality. They are capable of reducing stormwater runoff, retaining stormwater in the landscape, preserving natural water balance, enhancing local climate resilience, and also delivering ecological, social, and community services. Creating multifunctional systems, however, also warrants multidisciplinary approaches involving landscape architects, urban planners, engineers, and beyond to successfully create a balance between cities and nature. This Special Issue aims to bridge this multidisciplinary research gap by collecting recent challenges and opportunities from onsite systems up to the watershed scale.

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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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Journal Rank: JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

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