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Stormwater Management and Underground Drainage Systems

Guest Editors:

Dr. Cristina Matos
Escola de Ciências e Tecnologia, Universidade de Trás-os-Montes e Alto Douro, Quinta de Prados, 5000-801 Vila Real, Portugal

Dr. Cristina Santos
Department of Civil Engineering, Universidade do Porto, 4099-002 Porto, Portugal

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Message from the Guest Editors

Due to climate change, we are experiencing more unpredictable weather events. Stormwater management is the effort to reduce runoff of rainwater in urban areas and the improvement of water quality, according to the United States Environmental Protection Agency (EPA).

In urban and developed areas, impervious surfaces such as pavements and roofs prevent precipitation from naturally soaking into the ground. Instead, water runs rapidly into storm drains, sewer systems and drainage ditches and can cause flooding, erosion, turbidity (or muddiness), storm and sanitary sewer system overflow, and infrastructure damage.

Grey infrastructure, such as culverts, gutters, storm sewers, and conventional piped drainage, and blue/green infrastructure, which protect, restore, or mimic the natural water cycle, all play a part in stormwater management. Green infrastructure, or low-impact development (LID), uses or mimics the natural processes that result in infiltration, evaporation, or use of stormwater. These processes aim to create functional and appealing site drainage that treats stormwater as a resource rather than a waste product.

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Editor-in-Chief

Dr. Jean-Luc PROBST
Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
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𝕏@Water_MDPI