



*water*

an Open Access Journal by MDPI



## Nature-Based Solutions to Improve the Permeability of the Urban Landscape and Water Quality in Cities

Guest Editors:

**Prof. Dr. Giorgio Baiamonte**

**Dr. Simone Di Prima**

**Dr. Laurent Lassabatere**

**Prof. Dr. Massimo Iovino**

Deadline for manuscript  
submissions:  
**closed (31 October 2020)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue will comprise a selection of papers focused on nature-based solutions to improve the permeability of the urban landscape and water quality in cities. Urban sprawl leads to the sealing of urban soils, leading to both less groundwater recharge and more discharge of contaminated runoff and stormwaters to the environment. Infiltration basins and green roofs and trenches are increasingly being used in urban areas as nature-based solutions for mitigating such impacts and for water cycle regulation, flood risk protection, and climate change adaptation.

The specific topics we would like to address in this Special Issue include:

- improving groundwater recharge and water quality in urban areas;
- developing solutions aimed at reducing the sealing of urban soils;
- improving water infiltration measurements and related modeling approaches in urban soils;
- developing and testing innovative methods and tools for characterizing complex heterogeneous soils in urban areas; and
- developing innovative strategies for investigating pollutant filtration.



[mdpi.com/si/29613](https://mdpi.com/si/29613)

For further reading, please visit the **Special Issue website**.

# Special Issue

an Open Access Journal by MDPI

## Editor-in-Chief

### **Dr. Jean-Luc PROBST**

ECOLAB, 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

## Contact Us

---

WaterEditorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)