Special Issue

Resilience and Risk Management in Urban Water Systems

Message from the Guest Editors

This Special Issue seeks to explore innovative strategies and interdisciplinary approaches to enhance the resilience and risk management of urban water systems. We invite contributions that address the following themes:

- Resilience Frameworks and Assessment Tools: Development and application of hydraulic, hydrologic, or economic models and metrics to evaluate and enhance the resilience and performance of urban water infrastructure.
- Integrated Water Management: Approaches that consider the interconnectivity of water supply, wastewater, and stormwater systems, promoting holistic management practices.
- Nature-Based and Green Infrastructure Solutions: Implementation of green roofs, permeable pavements, and urban wetlands to, ideally, mitigate flood risks and enhance water quality.
- Technological Innovations: Possible utilization of smart technologies, including digital twins, IoT, and AI, for real-time monitoring, predictive maintenance, and efficient water management.
- Policy and Governance: Examination of regulatory frameworks, stakeholder engagement, and governance models that support resilient urban water systems.

Guest Editors

Prof. Dr. Bryan Karney

Department of Civil & Mineral Engineering, University of Toronto, 35 St. George St., Toronto, ON M5S 1A4, Canada

Dr. Ahmad Malekpour

WSP Global Inc., Montreal, QC, Canada

Deadline for manuscript submissions

20 February 2026

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/247771

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

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.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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 (Aquatic Science)

MDPI