

Special Issue

Global Perspective on Hydrology and Water Resources Management in Complex Urban Areas

Message from the Guest Editors

Rapid population growth, climate change, and urban expansion intensify pressure on water systems, demanding sustainable approaches for resource allocation, pollution control, and flood resilience. Coastal zones, where urban development often meets critical ecosystems, face unique challenges. Additionally, the integration of agricultural water management in urban and peri-urban settings is vital for balancing the water needs of food production with those of expanding urban populations. This Special Issue seeks contributions that provide insights into hydrological processes, innovative water management strategies, and the role of emerging technologies in coastal or urban–rural transitional areas. By exploring case studies, modeling advances, and policy frameworks, this issue aims to present comprehensive strategies that can enhance water resilience and security in metropolitan environments. We encourage submissions that address water quality, flood–drought risk, integrated water management, agricultural water use optimization and coastal areas, providing solutions that can be adapted across diverse global contexts.

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Deadline for manuscript submissions

closed (25 May 2026)



Water

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Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/223985

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

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