Special Issue

Innovative Technologies for Comprehensive Management of Urban Water Pollution

Message from the Guest Editor

Urban water pollution poses escalating threats to ecosystems, public health, and sustainable development. Rapid urbanization intensifies pressures on water systems through contaminants from industrial discharge, stormwater runoff, sewage overflow, and microplastics. While conventional treatment methods remain vital, their limitations in addressing complex urban pollution sources call for innovative, integrated solutions. This Special Issue focuses on cutting-edge technologies and systemic strategies to holistically manage urban water pollution. We welcome contributions on cutting-edge approaches, including advanced treatment processes, real-time monitoring/sensing, AI-driven system optimization, nature-based solutions, decentralized systems, resource recovery (water, energy, and nutrients), and integrated green–gray infrastructure. Studies demonstrating scalability, sustainability, socio-economic viability, and enhanced removal efficacy for emerging contaminants are particularly encouraged.

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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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