

Special Issue

Wastewater Treatment and Public Health Surveillance: Advances and Challenges in the One Health Era

Message from the Guest Editors

This Special Issue aims to foster a comprehensive understanding of how wastewater treatment and WBE can evolve to address these emerging challenges. Specifically, it seeks to explore innovations in water treatment technologies aimed at removing complex pollutants, including antibiotics, pharmaceuticals, antimicrobial-resistant bacteria (ARB), antimicrobial resistance genes (ARGs), pathogens, contaminants of emerging concern (CEC), and microplastics.

By highlighting these areas, this Special Issue will emphasize the potential of WBE as a vital tool for global health surveillance, capable of tracking disease outbreaks, chemical exposures, and antimicrobial resistance patterns in real time. It will also investigate novel technologies and methodologies for wastewater treatment and environmental monitoring, including biosensors and other advanced techniques. We invite researchers to submit original studies, reviews, and case studies that address these challenges, contributing to a holistic understanding of how wastewater treatment can play a pivotal role in safeguarding ecosystems and public health.

Guest Editors

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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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