

Special Issue

Water as a Strategic Resource –The Resilience of Water and Wastewater Systems Under Crisis Conditions and the Implementation of EU Directives

Message from the Guest Editor

This Special Issue aims to address the latest scientific and practical developments in the field of drinking water treatment and supply systems, with a particular focus on the implementation of the revised EU Drinking Water Directive (2020/2184) and the newly adopted Urban Wastewater Treatment Directive (2024/3019). This issue will bring together contributions from academic researchers, water industry professionals, and public authorities to explore innovative approaches, policy implications, and real-world case studies related to water quality, infrastructure management, and regulatory compliance. Key themes including:

- Innovative Water Treatment Technologies
- Digitalisation and Smart Water Networks
- Crisis Resilience and Risk Adaptation
- Risk-Based Management and Regulatory Compliance
- Energy–Water Nexus and Climate Neutrality

This Special Issue invites high-quality original research, technical notes, and review papers that contribute to a better understanding and improved performance of water systems in the context of modern regulatory, environmental, and technological challenges.

For further reading:

https://www.mdpi.com/journal/water/special_issues/1441YWQZQT

Guest Editor

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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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