

Special Issue

Innovative Technologies for Sustainable Water Treatment and Resource Recovery

Message from the Guest Editors

This Special Issue focuses on innovative and cross-cutting technologies that advance sustainable water management beyond conventional urban wastewater systems. We welcome contributions that explore novel materials, processes, and smart systems designed for a wide range of water matrices and operational contexts—from rural and remote settings to industrial parks and coastal environments. Topics of interest include, but are not limited to, the following:

- Advanced oxidation and reduction processes;
- Catalytic, photocatalytic, and electrochemical treatments;
- Next-generation membrane and separation technologies;
- Bio-based and hybrid treatment systems;
- Nanotechnology and functional materials for water decontamination;
- AI- and IoT-enabled monitoring, prediction, and process control;
- Energy-efficient desalination and brine management;
- Systems for simultaneous water purification and recovery of nutrients, metals, energy, and clean water.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.6 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2026).