



*water*

an Open Access Journal by MDPI



## Research on Advanced Biotechnologies for Water and Wastewater Treatment

Guest Editors:

**Dr. Christopher E. Mason**

Department of Physiology and  
Biophysics, Cornell University  
(Weill Cornell Medicine), New  
York, NY, USA

**Dr. Stephen Lyon**

SRL-Environmental, LLC, Racine,  
WI, USA

Deadline for manuscript  
submissions:

**20 August 2024**

### Message from the Guest Editors

The MDPI journal *Water* is developing a Special Issue dedicated to recent advances in biotechnology related to water and wastewater treatment. The large-scale commercialization of biotechnology began more than four decades ago with an emphasis on basic research and biomedical applications. This Special Issue of *Water* will include manuscripts from the public, private and academic sectors on a variety of topics. The themes to be addressed include the following:

- Microbial source tracking of pathogens in watersheds and water treatment systems;
- Bio-based sensors for the qualitative and quantitative analysis of macro and trace contaminants;
- Bioelectrochemically enhanced wetland treatment;
- Optimization of methane production based on digester microbial community analysis and population adjustment;
- Algal/microbial-based systems for heavy-metal removal from industrial wastewater;
- Integrated biological systems for wastewater treatment and carbon sequestration;
- The use of artificial intelligence (AI) in the optimization of microbial-based water/wastewater treatment systems.



[mdpi.com/si/197608](https://mdpi.com/si/197608)

# Special Issue



*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Jean-Luc PROBST

Laboratory of Functional Ecology  
and Environment, Centre  
National de la Recherche  
Scientifique (CNRS), University of  
Toulouse, Campus ENSAT,  
Auzeville Tolosane, France

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

## Contact Us

---

Water Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)