

Special Issue

Opportunities and Challenges in Biological Water Treatment

Message from the Guest Editors

We invite authors to submit original research articles, reviews, or perspectives addressing various aspects of opportunities and challenges in biological water treatment, such as drinking water treatment, urban sewage treatment, reclaimed water treatment, and rural wastewater treatment. Topics of interest include: Relationships between operational parameters, microorganisms, and system performance Identification of keystone taxa in water treatment systems Spatial and temporal distribution patterns of microbial communities Regulation of functional taxa for effective water treatment Applications of multi-omics technologies in water treatment Engineering and ecological value of microbiomes in water treatment and resource recovery.....

Guest Editors

Dr. Zedong Lu

Prof. Dr. Shenbin Cao

Prof. Dr. Xiaoyan Fan

Deadline for manuscript submissions

20 August 2025



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.8



mdpi.com/si/202299

Water

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

[mdpi.com/journal/
water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.8



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



About the Journal

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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,
Toulouse, France

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)