Special Issue

Microbial Technology Applied in Wastewater Treatment

Message from the Guest Editors

At present, microbial treatment is successfully utilized for the remediation of aquaculture wastewater, piggery wastewater, industry wastewater, pharmaceutical wastewater, municipal wastewater and so on. In addition, due to the government's strict regulations on wastewater discharge, the market of microbial wastewater treatment is rapidly growing. The scope of this Special Issue includes, but is not limited to, the following topics:

- The practical application of the microbial treatment of wastewater for the development of sustainable agriculture, aquaculture and industry;
- The effect of the wastewater environment on the metabolism of microorganisms and the biosynthesis of microbial components;
- Innovative technologies for microorganism cultivation and high-value biomass production in wastewater;
- The valorization of the microbial biomass obtained from wastewater treatment in animal feed, fertilizer, and biofuel;
- Future trends and challenges in the application of microbial technologies for wastewater treatment;
- The contribution of new technologies (e.g. artificial intelligence) to the development of the microbial treatment of wastewater.

Guest Editors

Dr. Qian Lu

School of Grain Science and Technology, Jiangsu University of Science and Technology, Zhenjiang, China

Dr. Limin Yang

School of Life Sciences, Jiangsu University, Zhenjiang, China

Deadline for manuscript submissions

25 October 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/231780

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

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

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 (Aquatic Science)

MDPI