Special Issue

The Application of Innovative Biotechnology in Sewage Purification

Message from the Guest Editors

The increasing impact of global climate change presents significant challenges for sustainable water and wastewater management practices. There is a high demand for innovative methods and technologies for water and wastewater treatment, with a primary focus on reducing greenhouse gas emissions, while ultimately achieving carbon neutrality. In the context of carbon neutrality and the circular economy, exploring emerging environmental biotechnology for water and wastewater purification offers a great opportunity to improve process efficiency in terms of treatment and energy usage, while in the meantime cutting down carbon emissions. Given this, the primary objective of this Special Issue is to explore innovative biotechnologies contributing to sustainable water and wastewater treatment, while addressing the current demand for energy and carbon neutrality under the circular economy framework. Researchers are cordially invited to submit original works on the above-described subject.

Guest Editors

Dr. Xiaoyuan Zhang
Dr. Bin Ji
Dr. Shulian Wang

Deadline for manuscript submissions

closed (30 June 2025)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/205745

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