

Special Issue

Applications of Anaerobic Digestion Technology in Wastewater Treatment

Message from the Guest Editor

This Special Issue will focus on the latest advancements in anaerobic digestion (AD) for wastewater treatment. It aims to explore innovative methodologies and technological enhancements that improve the efficiency, adaptability, and sustainability of AD processes. This Special Issue will cover innovative AD processes, effective pre-treatment techniques, supplementation strategies to boost performance, and the integration of AD into other biological systems to enhance treatment efficiency and energy use. It will also include real-world applications, technical improvements, and case studies demonstrating the practical benefits and challenges of AD technology. This Special Issue will address the emerging demand for more adaptable and efficient AD processes, and the challenges faced. It will highlight technological enhancements, interdisciplinary approaches, and practical applications, providing significant contributions to the field by filling in current research gaps and promoting advanced AD technology in wastewater treatment.

Guest Editor

Prof. Dr. Elia Judith Martínez Torres

Chemical and Environmental Bioprocess Engineering Group, Natural Resources Institute (IRENA), University of Leon, 24071 Leon, Spain

Deadline for manuscript submissions

closed (20 July 2025)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/212660

Water

Editorial Office

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 6.0



[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 (Aquatic Science)