

Special Issue

Advances in Wastewater Bio-Management: Microbial Community Relationships, Monitoring and Assessment

Message from the Guest Editors

Wastewater treatment is vital in addressing climate change and pollution from xenobiotics. The scientific community must focus on integrating treatment technologies with natural environments, utilizing biological organisms and their communities. Effective methods like activated sludge and biofilms depend on these living components, underscoring their significance. Additionally, organisms and biocenoses present opportunities for innovation in control and management mechanisms.

This Special Issue seeks studies on pollution treatment technologies that incorporate biological components and highlight their connections to environmental communities, including river and marine organisms and ecosystems related to wastewater facilities. It will showcase innovations in bio-management of purification processes and community control within and beyond treatment infrastructure. Topics of interest include new methods for monitoring and managing biological processes through ecology, microbiology, and genetics, particularly focusing on community interactions at various biocenosis levels. Studies on biological remediation of polluted resources are also encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (15 April 2026)



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About the Journal

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).