Special Issue

Bioremediation Techniques for Water Pollution: Towards a Cleaner Environment

Message from the Guest Editors

Water pollution poses a significant global threat to both environmental health and human well-being, demanding innovative and sustainable solutions. Conventional remedies are often costly, energy-intensive, and risk secondary pollution. Bioremediation offers an eco-friendly, cost-effective alternative, which utilizes the metabolic capabilities of microorganisms, plants, and their enzymes, offering a promising, eco-friendly, and cost-effective alternative for the detoxification of contaminated aquatic ecosystems. This approach can be applied to a wide range of pollutants, including heavy metals, organic compounds, and emerging contaminants, making it a critical area of research.

This Special Issue aims to serve as a platform for the dissemination of cutting-edge research in this vital field and invites original articles, reviews, and short communications on:
Isolation and characterization of novel bioremediating agents
Genetic engineering for enhanced degradation
Biofilms and microbial consortia
Phytoremediation strategies
Enzyme-based remediation systems
Integration of bioremediation with other treatment technologies
Development of new monitoring and assessment tools

Guest Editors

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Deadline for manuscript submissions

30 June 2026

Environments

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.7

mdpi.com/si/254365

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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.

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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).

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