

Special Issue

Microbial Applications and Ecological Research in Wastewater Treatment

Message from the Guest Editor

We are pleased to invite you to contribute to the Special Issue “Microbial Applications and Ecological Research in Wastewater Treatment” in *Sustainability*. Microorganisms are the cornerstone of wastewater treatment processes. Their ability to degrade these substances into less harmful byproducts is essential for protecting aquatic ecosystems and human health. Additionally, microorganisms facilitate the removal of nutrients like nitrogen and phosphorus, which helps prevent eutrophication in water bodies. Therefore, microorganisms play vital roles in pollutant degradation, nutrient removal, and biogeochemical cycling, offering sustainable solutions to wastewater challenges. This Special Issue aims to explore microbial ecology, functional innovations, and system optimization in wastewater treatment, aligning with *Sustainability's* focus on environmental and technological sustainability. We welcome original research articles and reviews. Research areas may include (but are not limited to) microbial community dynamics, emerging pollutants, and engineered bioreactors.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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