Special Issue

Biotechnology and Materials for Wastewater Treatment

Message from the Guest Editors

This Special Issue focuses on innovative approaches integrating microbial processes, bioengineered materials, and hybrid reactors for the treatment, reuse, and valorization of wastewater. Topics include anaerobic digestion, biosorption, electrochemical–biological systems, biochar, nanomaterials, and membrane technologies. Research contributing to the understanding of microbial community dynamics, process intensification, and material–microorganism interactions is particularly encouraged. The aim is to provide a comprehensive view of current advances that support the transition to circular and low-carbon wastewater management strategies. By gathering contributions from environmental biotechnology and materials science, this Special Issue seeks to highlight the critical role of this interdisciplinary field in shaping the next generation of resilient and sustainable water treatment systems.

Guest Editors

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Deadline for manuscript submissions

30 January 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/247339

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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