

Special Issue

Biological Treatment for Sustainable Waste Management and Green Environment

Message from the Guest Editor

With increasing global waste generation, sustainable waste management has become a critical challenge. Biological treatment methods, such as composting, anaerobic digestion, and microbial bioremediation, offer eco-friendly solutions by converting waste into valuable resources (e.g., biogas, fertilizers) while reducing pollution. These approaches align with circular economy principles and support climate change mitigation by minimizing landfill use and greenhouse gas emissions. This Special Issue aims to explore innovative biological treatment technologies that enhance waste valorization and environmental sustainability. It will highlight advancements in microbial processes and integrated waste-to-energy systems. By focusing on scalable and low-carbon solutions, this Issue contributes to *Sustainability's* scope of promoting ecological balance, resource efficiency, and sustainable development.

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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