

Special Issue

Adapting to New Challenges in Waste Management: Bioremediation, Biotechnology and Environmental Sustainability

Message from the Guest Editor

In this Special Issue, we invite you to submit original scientific and review articles on the integration of biotechnological processes with modern waste management, where waste is treated as a resource rather than just a burden on the environment. This Issue combines research with integrated solutions that reduce waste generation, increase resource recovery, and minimise environmental impact. The scope includes studies focusing on advanced processing, the optimisation of conversion pathways, the development of biorefinery technologies, and advanced bioremediation techniques. We focus on research that supports the efficient use of resources from waste streams through the recovery of energy, nutrients, and materials. The scope also covers solid, liquid, and gaseous waste from the municipal, industrial, agricultural, and new economy sectors. Furthermore, authors are expected to contribute to the field of sustainable development by providing data on resource efficiency, reductions in greenhouse gas emissions, and the development of environmental impact indicators.

Guest Editor

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About the Journal

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

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