



Sustainable Waste Management and Recovery

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Message from the Guest Editors

This Special Issue proposes to address six crucial research areas for innovation and sustainability in waste management.

Firstly, it explores the potential of innovative biomasses derived from industrial and agricultural waste as new sources for bioenergy generation, along with novel bioprocesses. It then focuses on the management of agricultural and industrial waste.

The third aspect addressed is the environmental impact of managing waste from various productive chains, agricultural and industrial alike, examining greenhouse gas emissions and identifying limitations regarding the exploitation of natural and fossil resources. This has implications for the presence of emerging pollutants and micropollutants (fourth point), released by agricultural and industrial practices into diverse environments—aquatic, terrestrial, and aerial—raising environmental and public health concerns.

The fifth aspect delves into the circular economy and bioeconomy for natural resources and their management. Lastly, attention is drawn to the health aspect of One Health in production processes, investigating physicochemical characteristics, antimicrobial resistance, and biofilm formation.





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Message from the Editor-in-Chief

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