



Biowaste Valorization for a Circular Bioeconomy and Sustainable Society

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Message from the Guest Editors

Urban waste has become one of the most challenging environmental problems in today's world owing to unprecedented urbanization and industrial activities. The waste sector is a significant player in global GHG emissions, driven primarily by open dumping and disposal in landfills without landfill gas capture systems. Biowaste valorization is an attractive approach that offers a range of promising alternatives to disposal/or landfilling of waste. Valorization techniques, such as composting, vermicomposting, anaerobic digestion, anaerobic fermentation, gasification, etc., add value to waste. The recovery of value-added products, including materials, chemicals, and energy, supports global sustainability, which relies on a low carbon footprint, renewable resources, renewable energy, waste reduction, decreased pollution, GHG reduction, ecosystem and human health, sustainable agriculture practices, the reclamation of degraded land, etc. Biowaste streams play an important role in the transition towards a circular bioeconomy. Adopting and implementing these biowaste valorization technologies in developing nations is seen as critical for improving global sustainability.





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