



Innovations in Waste Management and Recycling towards Sustainable Agriculture



Dear Colleagues,

With the growing global population and the rising need for food, the agricultural sector must move towards more sustainable methods. This special issue welcomes Original Research Papers, Review Articles, and Communications that cover advancements in waste management, recycling, and agriculture. The contributions will demonstrate innovative technologies, such as anaerobic digestion, composting, nutrient recovery, and other novel vaporization techniques to efficiently process agricultural and food sector by-products and produce sustainable biofertilizers. Authors are advised to provide comprehensive information on nutrient balances, environmental implications, and techno-economic evaluations of suggested procedures using life cycle assessment and related tools.

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Studies should aim to establish applicable models for agricultural recycling initiatives worldwide by showcasing innovative research and implementing practical field applications. Moreover, authors are encouraged to provide studies that align with the sustainable development goals (SDGs) and circular economy. These activities will promote the development of integrated waste management and sustainable agriculture, aiming to enhance soil health, eliminate environmental impacts, and contribute to achieving regional and global food security. Together, we can contribute to a greener and sustainable agricultural future!

Keywords

Waste Management; Anaerobic digestion; Composting; Biofertilizers; Nutrients Recovery; Environmental Impact Assessment; Life Cycle Assessment; Circular economy; Sustainable Agriculture; Cleaner Production