

Special Issue

Sustainable Methods for Resource Recovery and Circular Waste Management

Message from the Guest Editors

Global food production creates vast amounts of organic waste, which, without proper management, harms the environment by contributing to greenhouse gas emissions, soil degradation, and water pollution. These materials, however, are valuable resources that can be recovered and reused, a key principle of the circular economy. The challenge is to shift from traditional disposal methods to high-value solutions that recover resources, reduce ecological impacts, and support climate change mitigation. Agri-food waste streams have significant untapped value. They can be transformed into soil enhancers, organic fertilizers, and biochar. They can also serve as raw materials for bio-based products or be converted into renewable energy. By integrating these strategies into a circular framework, we can improve resource efficiency, strengthen the sustainability of food systems, and minimize the environmental footprint of agricultural and food industry activities. This Special Issue highlights innovative strategies for transforming agricultural and food industry waste into valuable products, improving resource efficiency, and supporting sustainable farming and food processing systems.

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