

Special Issue

Value-Added Utilization of Organic Waste for Sustainable Development

Message from the Guest Editors

Due to increasing demographic growth, industrialization, urbanization and economic wealth, increasing amounts of waste are accumulating in both developed and developing countries. The chemical composition of waste is more complex, so they increasingly endanger human health and the environment. Organic waste occupies a significant place among waste, as it is renewable, usually available in large quantities and potentially cheaper than other materials. Organic waste management promotes sustainable development of a country in terms of its economy and environmental protection. Valorization is a potential solution for organic waste management. It is achieved by applying some of the chemical, physical and biotechnological processes. In this way, it is possible to reuse bioactive and highly valuable components (antioxidants, vitamins, pigments, dietary fibers, pectin, oligosaccharides and others) which are very important for the pharmaceutical, cosmetic and food industry. Organic waste is also used as a raw material for the production of value-added products such as biofertilizers, biofuel adsorbents, biopesticides, biohydrogen, enzymes, bioplastics, etc.

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