Special Issue

Waste Biorefinery Technologies for Sustainable Energy Processes

Message from the Guest Editor

The concept of biorefinery refers to carrying out different connected bioprocesses in such a way that the effluent of one bioprocess serves as a substrate for another bioprocess, and in each bioprocess, products of economic interest are obtained, thus minimizing the generation of waste. Solid and liquid wastes with high organic matter content can be managed under biorefinery and circular economy concepts since wastes are revalued to products of economic interest (marketable products). Therefore, an organic waste biorefinery is a facility that integrates organic waste conversion bioprocesses to produce fuels, power, and chemicals. In these processes, the anaerobic fermentations yielding volatile fatty acids (VFA) are a key process as VFA act as intermediates between the organic wastes and the final biorefinery products. This Special Issue seeks to present the latest technological developments used to generate sustainable energy from wastes, current challenges, and future perspectives. The problems and potential solutions faced by case studies and life cycle assessment studies are welcome.

Guest Editor

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