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Bioenergy Generation from Different Types of Waste by Anaerobic Digestion

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Message from the Guest Editors

Dear Colleagues,

In view of the energy crisis and climate change, the world is searching for sources of green energy to replace fossil fuels. Energy security and especially the supplying of renewable energy and reduction of CO_2 emissions have become priorities in energy policy. Thanks to biotechnologies based on anaerobic digestion (AD), it is possible to obtain biogas with high methane content, which can be used as an alternative source of energy. Anaerobic digestion is based not only on waste from agriculture, horticulture, forestry, food processing, and wood processing but also on municipal, packaging, medical, veterinary, and chemical waste. The concept of zero liquid discharge (ZLD) is one of the methods to achieve sustainable development of bioenergy. This Special Issue focuses on recent advances in the conversion of waste to bioenergy, especially biogas and biohydrogen in the AD process. In order to implement AD as a method of disposal of waste of various origins, it is necessary to systematically broaden knowledge about the physicochemical and biochemical nature of the process.

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Message from the Editor-in-Chief

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