Special Issue

Anaerobic Digestion in the Bioeconomy

Message from the Guest Editors

Due to various crises, material and energy costs are rising worldwide, while at the same time global warming continues. For these reasons, the efficient use of regionally available materials is increasingly becoming a focus of interest. Anaerobic digestion can help to use organic residues as efficiently as possible in bioeconomy concepts. In this context, the use of various organic residual materials that arise in agriculture, but also in industry or in the community, can extremely increase economic efficiency and resource efficiency and significantly reduce CO2 emissions. The products of such bioeconomy concepts can be used energetically in the form of biogas and material recycling in the form of fibers, bioplastics or platform chemicals is conceivable. Likewise, the implementation of possible optimizations ranges from substrate preparation, to the process conditions of anaerobic digestion, to the complete ecological and economic evaluation of entire bioeconomy models. The special issue is aimed at the submission of contributions that deal with the mentioned topic both theoretically in modeling and practically in the form of laboratory or large-scale experiments.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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