



Microbiological Surveillance of Biogas and Sewage Treatment Plants

Guest Editor:

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Message from the Guest Editor

Biogas production through anaerobic digestion technologies can significantly contribute to the complete transition from a fossil fuel-based economy to a bio-economy relying on renewable resources. The goals of meeting future energy demands and avoiding competition between food and energy production require an increase in both the quantity and diversity of organic waste streams to be treated. In order to make biogas generation from organic waste streams competitive with fossil fuels and other renewable energies and to minimize the risk of spreading biohazards, reliable monitoring and surveillance systems are required.

Research can include, but is not limited to, the following topics: 1. Assessment of phages, pathogens, viruses, antibiotic-resistant genes, heavy metals, and other biohazards in the biogas processes and digestate residues; 2. Improved/novel tools for monitoring/surveillance of the microbial community and chemical process parameters; 3. Process modeling.





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Message from the Editor-in-Chief

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