Special Issue

Microbiological Surveillance of Biogas and Sewage Treatment Plants

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.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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