



Microbiological Surveillance of Biogas and Sewage Treatment Plants

Guest Editor:

Dr. Bettina Muller

The Department of Molecular
Sciences, Swedish University of
Agricultural Sciences, Almas Allé
8, 750 07 Uppsala, Sweden

Deadline for manuscript
submissions:

closed (10 January 2022)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
X@Applsci