

Special Issue

New Advances in Anaerobic Fermentation for Biogas and Biomethane Production

Message from the Guest Editors

The biological degradation of the organic matrix under anaerobic conditions determines the formation of different products through simultaneous reactions in which the compounds pass into different oxidation states until they are converted into methane, carbon dioxide and other by-products. The process includes a series of biodegradative reactions, and is carried out by a bacterial consortium, such as hydrolytic bacteria, acidifying bacteria (acetogenic and homoacetogenic) and methanogenic bacteria. Each population has a well-defined role in demolition by producing reaction intermediates. The purpose of this Special Issue is to highlight advances in biogas production. Another very important aspect concerns the condition of the fermentations used and their optimization, work concerned with upgrading processes is also welcome.

Guest Editors

Dr. Elena Tamburini

Department of Life Sciences and Biotechnology, University of Ferrara, Ferrara, Italy

Dr. Stefania Costa

Department of Life Sciences and Biotechnology, University of Ferrara, 44121 Ferrara, Italy

Deadline for manuscript submissions

closed (30 April 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/47817

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/appls





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)