Special Issue

Anaerobic Digestion for the Production of Energy and Chemicals

Message from the Guest Editor

Anaerobic digestion (AD) for the production of biogas is the classic example of a resource recovery process that combines stabilization of particulate organic matter or wastewater treatment with the production of a valuable end-products. Its Attractive features include the production of a single end-product from a heterogeneous feedstock, and in-situ product separation of the gaseous end-product. Despite the properties, the economic added value of the biogas produced is limited, enabling the development of alternative processes. Typically, the production of higher value end-products from low value feedstock and industrial wastewater proceeds via intermediate production of carboxylic acids (CAs), i.e. short-chain carboxylic acids (SCCAs) and medium-chain carboxylic acids (MCCAs). Overall, we suggest that these bioprocessing routes will contribute to a sustainable future and change the economic status of organic wastes and wastewater. The SI aims to gather articles on energy and chemicals production from organic wastes and wastewater, such as biometane, biohydrogen, SCCAs, MCCAs, the conversion of CAs, power to gas, microbiome analysis and separation system applications of AD.

Guest Editor

Prof. Dr. Byoung-In Sang

Department of Chemical Engineering, Hanyang University, 222 Wangshimniro, Seongdong-gu, Seoul 04763, Republic of Korea

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

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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

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

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