Special Issue

Production, Treatment, Utilization and Future Opportunities of Biogas

Message from the Guest Editor

In recent decades, anaerobic digestion technology has gained popularity as a solution to environmental and energy challenges and has been identified as one tool among many that may be used to alleviate the problems of global warming. Anaerobic digestion is quite a versatile technology. It can be applied to different types of organic waste streams and energy crops, i.e., liquid (wastewaters), solid (solid waste and crops), and semi-liquid (slurries). In addition, anaerobic digestion systems are versatile in terms of flexibility and scalability to recover the resources contained in the aforementioned feedstocks. As a renewable energy source, biogas also offers a multifunctionality key role, as it can be compressed, stored, upgraded, and even liquified. This must be seen as a great opportunity for biogas development as it opens the possibility to exploit the natural gas and liquefied natural gas infrastructures for biogas. Therefore, the general target of the present Special Issue is to contribute to the expansion of knowledge in this field, promoting research focused on biogas production, upgrading, and utilization.

Guest Editor

Dr. Carlos Rico de la Hera

Department of Water and Environmental Science and Technologies, Universidad de Cantabria, Santander, Spain

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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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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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