Special Issue

Bioethanol, Biohydrogen, and Biogas Production: Applications of Biorefinery

Message from the Guest Editor

The use of biorefinery in biofuel production is becoming increasingly relevant. Bioethanol, biohydrogen, and biogas could replace currently widely used fossil fuels. The use of various biomasses and microorganisms in biofuel production could contribute to the creation of environmentally friendly and efficient biorefinery systems. Biofuel production using biorefinery systems complies with the principles of sustainable development and circular economy. Biorefinery allows us not only to improve biofuel production processes using various biomasses but also to achieve economic benefits. Biorefinery includes biofuel production, biofuel upgrading systems, and biomass pre-treatment technologies. The study of a range of biomass processing techniques and proposed solutions in biorefinery systems could contribute to increasing the energy and economic efficiency of biofuels. Biomass processing techniqes include fractionation, liquefaction, pyrolysis, hydrolysis, fermentation, and gasification. Bioproducts obtained from biomass can be used as biofuel in vehicles, homes, or agricultural or industrial enterprises.

Guest Editor

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