Special Issue

Bioprocessing and Fermentation Technology for Biomass Conversion

Message from the Guest Editors

The utilization of renewable biomass resources for energy, material, and chemical production offers significant environmental advantages over fossil fuels, as it reduces greenhouse gas emissions and dependence on non-renewable resources. The Special Issue entitled "Bioprocessing and Fermentation Technology for Biomass Conversion" focuses on advancements in bioprocessing and fermentation technologies that enable the efficient conversion of biomass into bioenergy, chemicals, and materials. This Special Issue includes the development of new technologies, novel feedstocks, biomass pretreatments, fermentation strategies, and the utilization of microorganisms in monoculture, coculture, and consortium systems. Additionally, studies on microbial engineering, cell factories, process optimization, algal biotechnology, anaerobic digestion, upstream and downstream processing, enzyme discovery and applications, life cycle assessment (LCA), and other related areas are also encouraged. The collection of articles will provide valuable insights into the latest research and innovation in the field, advancing the prospects of sustainable biorefinery and bioenergy production.

Guest Editors

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Dr. Joachim Venus
Dr. Andrew Ross

Deadline for manuscript submissions

closed (20 February 2025)

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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

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