

Special Issue

Biomass Gasification for Power Generation, Biofuels, and High Value Chemical Products

Message from the Guest Editors

Biomass gasification is a growing technology based on a complex thermochemical process where an organic material is converted into a gaseous stream mainly composed of H₂, CO, CO₂, N₂, H₂O, and CH₄ among others, commonly named *syngas* or producer gas.

Biomass gasification represents an efficient process that can be used to produce renewable electricity and/or heat, biofuels, and high-value chemicals products. This Special Issue aims to publish a comprehensive overview and an in-depth technical research paper addressing recent progress in biomass gasification processes. Studies of advanced gasification reactors, and numerical models and technologies for power generation, biofuels, and other valuable chemical products, are welcomed. Research involving experimental methods in pilot-scale gasification plants and techno-economic studies, and recent developments and the current state-of-the-art in this field, are highly encouraged. **Keywords**

- biomass gasification
- state-of-the-art
- thermodynamic modeling
- economic
- combined heat and power
- biofuels
- bioenergy
- experimental

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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.

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