Special Issue

Advances in Methanol Production from Biomass

Message from the Guest Editors

Biomass utilization to produce chemicals and energy vectors represents the most appealing way to reduce the use of fossil resources and decrease pollution and the green-house effect. Intensive research in academia and industry is devoted to the application of renewable biomass-based sources for methanol production. We invite scientists working in the area of to contribute:

- Innovative catalysts for methanol production
- New synthetic procedures for catalysts synthesis
- Kinetics and thermodynamic analysis involving biomass gasification and methanol production
- Experimental data regarding methanol synthesis in the presence of CO2 and/or other impurities
- Automatic control of water and wastewater treatment processes for nitrogen and/phosphorus
- Economic analysis of methanol-from-biomass production, or of a specific, related unit operation
- A Life Cycle Analysis (LCA) study concerning methanol production using traditional and innovative raw materials
- Strategy for improving the sustainability of biomass transformation into methanol

Keywords: methanol from biomass, catalysis and kinetics, process design and simulation, LCA, carbon dioxide

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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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