

## Special Issue

# Recent Advances in Catalytic Conversion of Biomass Resources into Chemicals and Fuels

### Message from the Guest Editor

As environmentally friendly resources, biomass energy is the energy stored in biomass feedstocks by solar energy in the form of chemical energy. Biomass resources are the only large-scale non-fossil carbon source that can be processed into high value-added liquefied chemicals; therefore, strengthening the utilization of biomass resources can not only effectively alleviate the energy crisis, but also cultivate a greener modern lifestyle. Biorefinery is continuous production of value-added chemicals and biofuels from biomass feedstocks. The resulting biomass-derived platform molecules can be further converted into liquid biofuel components, which will gradually replace fuels synthesized from non-renewable fossil resources. Biorefinery technology is a developing field with significant demand for research in the following aspects:

- Development of new catalysts, catalytic routes, and technologies for biomass conversion;
- Study of new processes for obtaining fuels and chemicals from biomass;
- Optimization of the catalyst and the reaction conditions for the process;
- Steps further on advanced processes for improving the yield of products.

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