

Special Issue

Catalytic Liquefaction Processes of Biomass for Fuels and Chemicals

Message from the Guest Editor

Utilizing biomass as a renewable source of carbon is one of the most exciting challenges of current research in chemical engineering. This has a special value in connection with the increasing concern on global warming, urging a reduction of the utilization of fossil resources in order to lower CO₂ emissions. This Special Issue aims at gathering recent, high-quality research contributions in the field of catalytic liquefaction processes for biomass, for the production of sustainable biofuels and/or chemicals. Possible topics include (but are not limited to):

- Experimental studies on catalytic pyrolysis or catalytic hydrothermal liquefaction;
- Comparison between catalytic and noncatalytic biomass liquefaction processes;
- Upgrading of bio-oils from catalytic liquefaction processes to final fuels and chemicals;
- Blending and co-refining of bio-oils from catalytic liquefaction processes for drop-in fuels;
- Development of novel catalysts for thermochemical liquefaction;
- Case studies on pilot or demonstration scale plants;
- Modeling studies and technoeconomic evaluations.

Guest Editor

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Message from the Editor-in-Chief

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