Special Issue

Advances in Catalysis for Fuel and Chemical Production from Biomass Feedstocks

Message from the Guest Editors

The production of chemicals and fuels from biomass is seen as the holy grail for abandoning fossil feedstocks and building a society based on renewable resources. Catalysis plays a key role in converting biomass into high value chemicals and fuels. Often, these catalysts are based on metals, metal oxides, or porous materials such as zeolites, or a combination thereof. Studies investigating catalytic systems converting real biomass streams into chemical products are of high value, as well the influence of biomass pretreatment methods on the final catalytic performance. This Special Issue, titled "Advances in Catalysis for Fuel and Chemical Production from Biomass Feedstocks", focusses on new insights and developments in the field catalytic systems for biomass conversion into chemicals and fuels. This can range from a fundamental understanding of the reaction mechanism and catalytic material development, to new procedures for biomass pretreatment and post-catalysis chemistry in order to reach final chemical end-products.

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