Special Issue

Catalytic Fast Pyrolysis for Biofuels and Sustainable Chemicals

Message from the Guest Editors

Increasing environmental concerns demand the production of ecofriendly energy fuels and sustainable chemicals. In this regard, fast pyrolysis is recognized as a promising approach. Moreover, catalytic fast pyrolysis (CFP) which includes the application of nanomaterials as potential catalysts can be applied to upgrade the yield and quality of the pyrolysis products. Bio-oil upgrading into hydrocarbons and high-added-value products through CFP has attracted a great deal of attention, and consequently this technique has been successfully used to improve the calorific and physicochemical properties of the bio-oil and upgrade it into other sustainable chemicals. Considering the significance of the topic, this Special Issue aims to cover the most recent progress in the field of catalytic fast pyrolysis. This Special Issue includes the following topics: biomass pyrolysis; catalytic fast pyrolysis; pyrolysis for biofuel production; hydrocarbon production; application of acidic and basic catalysts for sustainable chemicals; waste to energy technology; and the thermochemical conversion of biomass into energy fuels.

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