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Catalytic Pyrolysis for Environmental Applications

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Message from the Guest Editors

In pyrolysis, waste biomass and waste polymers (waste plastics, rubbers, etc.) should be the proper feedstock to produce carbon fuels and feedstock. However, the pyrolysis of wastes still suffers from energy inefficiency, low quality, and poor selectivity for the production of target chemicals. A catalytic pyrolysis is expected to address these problems. The use of natural and waste minerals (e.g., dolomite, red mud, spent FCC catalyst) can also improve the efficiency of the pyrolytic process while reducing the operation cost. More technoeconomic analysis also needs to be carried out.

The aim of this Special issue is to cover recent technical advances in catalytic pyrolysis for environmental applications. Various research subjects related to the catalytic pyrolysis of wastes and development of cost-effective catalysts will be considered in this Special Issue.

It is our pleasure to invite you to submit manuscripts to this Special Issue. Reviews, short communications, and full research papers related to the catalytic pyrolysis of wastes or the catalytic upgrading of pyrolysis oils are especially welcome.