Special Issue

New Catalysts and Reactors for the Synthesis or Conversion of Methanol

Message from the Guest Editor

Methanol can be environmentally synthesized from any feedstock, and its reforming reaction does not alter net CO2 emission to atmosphere. Methanol to hydrocarbon (MTH) is a promising process because it supplies a wide range of compounds as important intermediates in petrochemical synthesis, such as light olefins and high-quality gasoline. The conversion of methanol to hydrocarbons can be catalyzed by various catalysts (HZSM-5 for methanol to gasolines, SAPO-34 for methanol to olefines, etc.). The role of both catalyst and reactor in these reactions is very important, and the kinetic modeling of coke formation is necessary to reveal the effect of coke content on the product distribution of the reaction, and to optimize the design and operation of the reactor.

In this Special Issue entitled “New Catalysts and Reactors for the Synthesis or Conversion of Methanol”, we welcome all kinds of works in the form of original research papers or short reviews that reflect the state-of-the-art of the research area dealing with methanol applications, based on new catalysts or reactors.

Guest Editor

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