Special Issue

Multi-Scale Analysis of Advanced Catalytic Systems

Message from the Guest Editors

In this special issue, the applied analysis methodologies and the case study-processes, specially the novel and advanced individual and integrated catalytic systems, will be discussed. Such analysis usually comprised characterizing the catalytic systems, including dual catalysts, and their reaction performance indicators. Dimensional analysis, transport phenomena, separation potential, reaction kinetic etc. are the aspects to be also taken into analysis in such context in terms of their impacts on the technical/ecological/economic performance of the system. Analysis of different types of reactive systems from standard fixed-bed reactor up to integrated reactive-separation systems for co-feed or distributed feeding systems in a single or multiphase gas/liquid heterogeneous catalytic structures are covered in this special issue. The focus of the conducted researches can be on the catalyst, reactor, reactive-separation, process integration and intensification etc. Therefore, research articles covering these areas in catalytic systems are very welcome for being evaluated and included in this Special Issue of Catalysts.

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