

Special Issue

Fluidizable Catalysts for Novel Chemical Processes

Message from the Guest Editors

We would like to warmly invite you to contribute to the Special Issue of *Catalysts* entitled "Fluidizable Catalysts for Novel Chemical Processes". Fluidizable catalysts offer unique opportunities to develop valuable new sustainable and environmentally friendly catalytic chemical processes. Fluidizable catalysts frequently display the outstanding property of not being influenced in their performance, by intraparticle mass transport and heat transport processes, taking place inside the catalyst particles. Thus, they provide a much more reliable catalytic performance than traditional non-fluidized bed processes. Fluidizable catalysts can be employed to degrade harmful and toxic pollutants. Another promising application of fluidizable catalysts is hydrogen production. The aim of this Special Issue is to report recent progress on the following key topics related to fluidizable catalysts: (a) their synthesis, characterization, and development; (b) their kinetics and reaction mechanisms; (c) their observed conversions, and selectivities; and (d) new low particle density fluidized catalytic reactor designs, with high reactant throughputs.

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