

Special Issue

Zeolites and Zeolite-Based Catalysts in Industrial Catalysis

Message from the Guest Editor

This Special Issue is devoted to the design and characterization of zeolites for industrial processes. The aim is to determine the current state of knowledge, indicate areas requiring further research, and show the direction of ongoing development work regarding zeolites' design, also including theoretical modeling as support for industrial processes. The main attention will be focused on comprehensive studies of the synthesis, characterization, and evaluation of zeolite performance in industrial processes such as, but not limited to, biomass valorization, the selective catalytic reduction of nitrogen oxides, N₂O decomposition, alkylation, refinery, petrochemistry, organic compounds adsorption, filtration, and odor elimination. The scope also includes the investigation of zeolites under conditions close to industrial ones, comparisons of the studied catalytic zeolite-based systems with the currently operating commercial systems, and demonstrations of the validity of their application in a given industrial process.

Guest Editor

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