Special Issue

Catalysis on Zeolites and Zeolite-Like Materials, 3rd Edition

Message from the Guest Editor

This Special Issue is a continuation of the previous successful Special Issues, "Catalysis on Zeolites and Zeolite-Like Materials" and "Catalysis on Zeolites and Zeolite-Like Materials II". The regular pore system of zeolites, with cavities and nanometric channels, as well as the resulting characteristic properties, predestine them for wide use as catalysts in chemical technology. The progress in zeolite synthesis enabled the discovery of new zeolite types, which allowed for the development of new catalytic processes in petrochemical industries. Moreover, new tools for zeolite modification have allowed for additional applications of zeolite-based catalysts in the field of environmental catalysis. The development of new mesoporous and micro/mesoporous or zeolite-like materials, as well as progress in computational chemistry and solid-state characterization techniques, demonstrated that the potential of ordered pore materials is still far from exhausted, and that further biocatalysis, electrocatalysis, photocatalysis, and micro/nanostructure technology indicate increasing interest in this class of substances.

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Deadline for manuscript submissions

10 August 2025

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/214691

Catalysts
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