Special Issue

Advanced Crystalline Porous Material and Engineering for Separation and Catalysis Application

Message from the Guest Editors

Crystalline porous materials, as periodic network structures, exhibit excellent properties in separation and catalysis aspects, contributing to their outstanding characteristics such as high specific surface area, flexibility, adjustability, and visual structure, etc. Moreover, in the last two decades, other kinds of crystalline porous metal–organic frameworks (MOFs), covalent–organic frameworks (COFs), hydrogen–organic frameworks (HOFs), and Cages have emerged generated interest for their potential use in catalysis and gas separation or storage. In order to summarize and display the latest research results to further promote the development of crystalline porous materials, this Special Issue aims to collect original high-quality articles that explore the full potential of crystalline porous materials for a wide range of applications related to catalysis and separation. Fundamental and applied research covering multidisciplinary topics as well as review papers with new perspectives will be considered.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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