



Catalytic Performance of Zeolites and Nanostructured Materials in Bio-Refinery Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In the recent years, a great deal of attention has been focused on sustainable renewable energy and green chemistry applications. This has already resulted in the conception of the bio-refinery model and the development of several generations of biofuel and platform chemicals from renewable sources. Meeting the challenges posed by varying feedstocks and demanding reaction conditions will require new catalysts with enhanced performance based on improved mass transport, superior activity and selectivity, and high thermal and hydrothermal stability. These may include macro-meso-microporous zeolites, zeotypes and metal oxides, as well as metal-organic frameworks and related nanostructured materials.

The scope of this Special Issue includes the preparation, characterisation, application and modelling of zeolites and related nanostructured materials for the production of renewable fuels and platform chemicals in a sustainable way, utilising environmentally friendly technologies related to modern bio-refinery approaches. The contributions invited include original and significant research articles that are of interest to both academic and industrial scientists.





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Message from the Editor-in-Chief

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