Special Issue

Zeolites and Related Materials for Biocatalysis, Heterogeneous Catalysis and Sustainable Applications

Message from the Guest Editors

This Special Issue aims to provide a range of selected contributions on both natural and synthetic zeolites, mesoporous materials, and hierarchical systems for biocatalysis (supported enzymes), heterogeneous catalysis, and sustainable applications. Porous materials are particularly interesting for the immobilization of enzymes and cells. Then, it is possible to design promising biocatalytic systems. Similarly, micro- and mesoporous materials can be used to prepare heterogeneous catalysts with highly dispersed active sites, such as the Single-Site Heterogeneous-Catalysts proposed by Sir John Meurig Thomas, that are the inorganic analogues of enzymes. On the other hand, zeolites and related materials are effective for a large number of environmental and sustainable processes, including wastewater treatment, capture and storage of gases, development of sustainable agriculture, etc. Therefore, we strongly encourage researchers and scientists, from academia and industry, to submit their scientific work for this Special Issue. Full papers, communications, and reviews are all welcome.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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