Topical Collection

Porous Materials and Nanozeolites

Message from the Collection Editors

Zeolites are fascinating materials with diverse capabilities which have gone beyond their traditional applications as catalysts, sorbents, and ion-exchangers. Novel synthesis methods are constantly being developed to enhance their performance and to make their synthesis industrially and envrinomentally friendly. Advanced characterization techniques are also continuously being explored to better understand the zeolite complex crystallization mechanism. These new developments have prompted zeolite researchers to collaborate with researchers from different areas, and excellent multidisciplinary studies have been published in recent years. Ever since the development of nanozeolites in the early 1990s, efforts have been devoted to expanding the number of zeolite structures available in nanozeolite form as well as modifying their properties for enhanced performance. Examples of recent developments include template-free synthesis of ultrasmall nanozeolites, synthesis of hierarchical nanozeolites, and synthesis of single crystal defect-free nanozeolites. In this Special Issue, we invite contributions from all areas of zeolites and related porous materials.

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Message from the Editorial Board

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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