DESCRIPTION

*Microporous and Mesoporous Materials* covers novel and significant aspects of porous solids classified as either *microporous* (pore size up to 2 nm) or *mesoporous* (pore size 2 to 50 nm). The porosity should have a specific impact on the material properties or application. Typical examples are zeolites and zeolite-like materials, *pillared* materials, *clathrasils* and *clathrates*, *carbon molecular sieves*, ordered mesoporous materials, organic/inorganic porous *hybrid materials*, or porous *metal oxides*. Both natural and synthetic porous materials are within the scope of the journal.

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- Adsorption (and other separation techniques) using microporous or mesoporous adsorbents
- Catalysis by microporous and mesoporous materials
- Host/guest interactions
- Theoretical chemistry and modelling of host/guest interactions
- All topics related to the application of microporous and mesoporous materials in industrial catalysis, separation technology, environmental protection, electrochemistry, membranes, sensors, optical devices, etc.

The journal publishes original research papers, short communications, review articles and letters to the editor.

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INTRODUCTION

_Microporous and Mesoporous Materials_ covers novel and significant aspects of _porous solids_ classified as either micro porous (pore size up to 2 nm) or mesoporous (pore size 2 to 50 nm). The porosity should have a specific impact on the material properties or application. Typical examples are _zeolites_ and _zeolite-like materials_, _pillared materials_, _clathrasils_ and _clathrates_, _carbon molecular sieves_, _ordered mesoporous materials_, _metal-organic frameworks_, _organic/inorganic porous hybrid materials_, _porous polymers_, or _porous metal oxides_. Textural porosity and the generation of activated carbons by means of conventional methods are not within scope. However, both _natural and synthetic porous materials_ are within the scope of the journal. Cover letters should describe how your submitted work scientifically advances the understanding of porosity and/or porous materials.

Topics which are particularly of interest include:
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- the _physico-chemical characterization of microporous and mesoporous solids_, especially spectroscopic and microscopic
- the _modification of microporous and mesoporous solids_, for example by ion exchange or solid-state reactions
- all topics related to _diffusion of mobile species in the pores of microporous and mesoporous materials_
- _adsorption_ (and other separation techniques) _using microporous or mesoporous adsorbents_
- _catalysis by microporous and mesoporous materials_, _host/guest interactions_, _theoretical chemistry_, and _modelling of host/guest interactions_
- all topics related to the _application of microporous and mesoporous materials_ in industrial catalysis, separation technology, environmental protection, electrochemistry, membranes, sensors, optical devices, etc.

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