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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All aspects of natural microporous and mesoporous solids
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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.

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 *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*, *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.

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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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