Special Issue

Advanced Porous Materials

Message from the Guest Editor

The class of porous materials covers a broad range of organic and inorganic compounds among which polymer foams, ceramics, mesoporous metal oxides, alumosilicates, metal organic frameworks, or porous carbon materials are only some prominent examples. Porosity in this context describes the presence of channels or cavities either in the crystal structure or in hierarchically structured materials ranging from micropores (50 nm). The varieties of chemical compositions, pore architectures, and pore sizes offer the possibility for a large number of applications. Porous materials are used for example as carriers in drug release, as catalysts, in electronic or optical devices, or for separation and fixation of environmentally hazardous compounds. This Special Issue aims to bring together the actual status of research on advanced porous materials including various aspects such as new concepts for synthesis, the use of porous materials in technical processes, or the introduction of advanced characterization techniques.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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