Special Issue

Crystalline Porous Materials for Environment and Sensing

Message from the Guest Editors

Crystalline porous materials such as zeolites, metal organic frameworks (MOFs) and covalent organic frameworks (COFs) exhibit outstanding properties that make them greatly appealing in a wide range of applications including gas and energy storage, catalysis, sensing and purification among others.

In the current context of globalization, increase in industrial activity and climate change, the development of efficient systems for the detection and removal of contaminants in water, atmosphere and soil has become an imperative necessity. Crystalline porous materials are ideal candidates for this purpose due to their high specific surface area, pore size modulation and versatile chemical functionalization.

This Special Issue is aimed to highlight novel applications of crystalline porous materials in the sensing and/or capture of pollutants arising from human activity and industrial production, such as heavy metals, toxic inorganic anions and persistent organic pollutants, among others.

In this Special Issue, original research articles and reviews are welcome. Research areas may include the following: Inorganic Chemistry, Environmental Chemistry, Analytical Chemistry, Materials Chemistry.

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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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