Special Issue

Advances in Porous Organic Materials: Syntheses, Structures and Applications

Message from the Guest Editors

In recent years, the most extensively researched organic porous materials typically fall into the following categories: covalent organic frameworks (COFs), conjugated microporous polymers (CMPs), porous aromatic frameworks (PAFs), polymers of intrinsic microporosity (PIMs), hyper-cross-linked polymers (HCPs) and porous organic cages. Depending on their structure, porous organic materials can be crystalline or amorphous, with each type offering unique properties and applications. For example, COFs have been employed extensively in gas storage and separation, catalysis, sensing, energy storage and optoelectrical applications due to their ordered structures, well-defined pore distribution and high specific surface area. One key aspect of porous organic materials is their precise control over structures, properties, and manageable functionalities. This begins with the accurate synthesis of organic molecules, as molecular structures dictate the processing methods employed and the final structures, properties, and functionalities.

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