



Recent Advances in Reticular Chemistry

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Deadline for manuscript
submissions:

closed (18 March 2022)

Message from the Guest Editors

Reticular chemistry, the practice of linking molecular building blocks (MBBs) through strong bonds into extended crystalline structures, allowed for an unprecedented growth in the field of design of new functional materials, such as Metal-Organic Frameworks (MOFs), Covalent-Organic Frameworks (COFs) or Zeolitic Imidazolate Frameworks (ZIFs). The MBB approach has emerged as a prominent pathway towards the design and development of solid-state porous materials, as the desired properties/ functionalities can be introduced in preselected MBBs at the design stage. Modular nature of these novel crystalline structures holds the potential to address persistent societal challenges in applications related to energy and sustainability, such as gas storage/separation, catalysis, drug delivery or sensing. Efforts are ongoing towards the discovery of novel MBBs, and new strategies for the rational design of made-to-order materials are being evaluated. This Special Issue aims to compile some of the recent advances in the design, construction, and application of novel materials demonstrated by means of reticular chemistry.





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Message from the Editor-in-Chief

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