

Special Issue

Advances in Organic Framework Materials: Syntheses and Applications

Message from the Guest Editors

Accurately controlling the assembly of functional motifs presents a significant challenge for the construction of organic framework materials, which requires the development of structurally diverse building blocks and highly reliable synthetic strategies. Porous organic materials have aroused much attention due to their modular nature and tunable structures. In particular, organic framework materials such as metal–organic frameworks (MOFs), covalent organic frameworks (COFs), hydrogen-bonded organic frameworks (HOFs), supramolecular organic frameworks (SOFs), and halogen-bonded organic frameworks (XOFs) have been widely used in the fields of gas sorption and storage, catalysis, luminescence, sensing, biomedicine, environmental remediation, energy storage, and conversion. Although there has been remarkable progress in the field of reticular chemistry over the past decade, the exploration of new synthetic strategies and applications is still in its infancy. It is also necessary to establish a fundamental understanding of the relationships between chemical structures and physicochemical properties in organic framework materials.

Guest Editors

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