

Special Issue

Metal–Organic Frameworks (MOFs) and Applications in Adsorption

Message from the Guest Editors

This Special Issue on “Metal–Organic Frameworks (MOFs) and the Application in Adsorption” aims to present recent progress in the synthesis, functionalization, and application of MOFs tailored for adsorption processes that address environmental and industrial challenges. Key areas of interest include, but are not limited to,

- (1) the use of MOFs for gas storage and separation, such as CO₂ capture, CH₄ storage, and air purification;
- (2) their potential to remove environmental pollutants like heavy metals, organic contaminants, and hazardous chemicals from water sources;
- (3) MOFs are gaining attention in resource recovery applications, such as the selective adsorption and recovery of valuable resources like phosphate from wastewater, which is crucial for sustainable water treatment and agricultural needs.

Researchers are encouraged to contribute studies that delve into the molecular-level adsorption mechanisms of MOFs, computational modeling for property optimization, and innovative MOF composites that enhance adsorption capacity and selectivity.

Guest Editors

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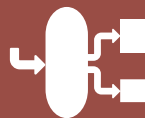
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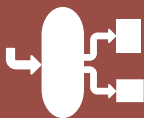


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