

Special Issue

Metal-Organic Frameworks (MOFs): Synthesis and Applications in Industry, Environment and Energy

Message from the Guest Editors

This Special Issue aims to capture the latest advancements in MOF research, focusing on innovative synthesis methods and their transformative applications in various sectors. The topics of interest include, but are not limited to, the following:

- Novel MOF synthesis routes, including scalable and sustainable synthesis approaches, post-synthetic modifications and functionalization;
- Structuring or shaping of MOFs for different industrially relevant applications;
- Industrial applications of MOFs, including the recent advancements of MOFs in catalysis, chemical processing, separation and purification technologies, and other emerging applications);
- Environmental applications of MOFs (MOFs for gas capture and storage, water purification and pollutant removal from different sources);
- MOFs in energy storage and conversion applications (batteries, supercapacitors, hydrogen storage and fuel cells, photovoltaics and energy harvesting);
- Computational and theoretical studies on the design and screening of MOFs for specific applications.

Guest Editors

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Deadline for manuscript submissions

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