

## 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

Dr. Mohamed Infas Haja Mohideen

Dr. Ayalew H. Assen

Dr. Abdul Malik Puthan Peedikakkal

### Deadline for manuscript submissions

closed (31 March 2025)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Message from the Editor-in-Chief

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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