

Special Issue

Metal-Organic Frameworks and Their Role in Catalytic Processes

Message from the Guest Editors

The importance of research related to catalyst development can be assessed based on the irreplaceable requirement of catalysts in most synthesis processes for the production of chemicals. Metal-organic frameworks (MOFs) have impressed the research community by offering diversity in chemical functionality and morphology. In fact, MOFs are heterogeneous nanomaterials whose catalytic activity can be tuned according to the targeted application mainly by pore engineering as well as functional and morphological alteration. These features are important in determining catalytic activity, thus making MOFs a suitable candidate for various research applications, including in the fields of thermal-, photo- and electro-catalysis. Generally, the synthesis of MOFs involves a node and linker which are assembled together during the crystallization process. The topics of interest include, but are not limited to, the following:

- Mesoporous and microporous MOFs.
- Strategies for the synthesis of MOFs.
- MOFs as support materials.
- Catalytic (thermal-, photo- and electro-catalytic) applications of MOFs.

Guest Editors

Dr. Subodh Kumar

Department of Inorganic Chemistry, Faculty of Science, Univerzita Palackého v Olomouci, 77900 Olomouc, Czech Republic

Dr. Xuanthang Cao

Faculty of Chemical Engineering, Industrial University of Ho Chi Minh City, Ho Chi Minh City 700000, Vietnam

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

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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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