# Special Issue

# MOF Based Functional Nanomaterials for Photo/Electrocatalysis, Energy Storage and Gas Sensors Applications

## Message from the Guest Editors

Metal–organic frameworks (MOFs) are compounds of metal ions and organic molecules that form structured frameworks. These advanced materials can be compared with sponges with unique abilities—being able to take up, hold, and release molecules from their pores. Therefore, MOFs are currently one of the fastest-growing classes of materials. The building blocks of the framework can be combined in almost infinite ways to create novel materials. Therefore, unique structural characteristics can be achieved by tuning basic materials according to their specified application. This SI aims to provide essential knowledge on the design and synthesis of specific MOF classes, as well as their properties and applications in many fields. Additionally, it intends to offer access to excellent references for postgraduate students, researching areas such as materials chemistry, inorganic chemistry, etc. This SI welcomes the submission of original research, review and perspective articles on MOFs, including but not limited to: carbon-based MOFs; MOFs for environmental pollutants remediation, energy storage, biosensors; MOFs as catalysts or biomedical microrobots.

## Guest Editors

Prof. Dr. Shahid Hussain

Dr. Dereth Drake

Dr. Javed Muhammad Sufyan

## Deadline for manuscript submissions

closed (20 February 2023)

**Materials**

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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