

Special Issue on
**Metal-Organic Frameworks for Energy and
Environmental and Biomedical Applications**

CALL FOR PAPERS

The past few decades have witnessed a rapid growth in the field of a new nanomaterial group, metal-organic frameworks (MOFs), which are important in both academic research and industrial applications. They are constructed via self-assembly of single metal cations (primary building unit or PBU) or metal clusters (secondary building unit or SBU) with organic ligands having multiple binding sites, thus forming one, two, or three dimensionally extended coordination networks. A variety of synthetic methods for MOFs have been developed such as hydrothermal, microwave-assisted, sonochemical, mechanochemical, and electrochemical ones. MOFs demonstrate unique properties including host-guest chemistry, selective uptake of small molecules, high porosity, large surface area, and excellent luminescence, which make them promising material candidates in various applications in energy and environmental and biomedical fields.

This special issue highly welcomes original research and review manuscripts, which would help the readers to know more about the wonder of MOFs nanomaterials and propel their further applications in various fields.

Potential topics include but are not limited to the following:

- ▶ Synthesis and properties of MOFs nanomaterials
- ▶ MOFs for energy applications such as gas storage, catalysis, energy storage and conversion, and optoelectronics
- ▶ MOFs for environmental applications including gas separation, water treatment, environmental monitoring, and chemical sensing
- ▶ MOFs for biomedical applications in drug storage and delivery, bioimaging, and biosensing as well as disease diagnosis and therapy
- ▶ Preparation of SURMOFs and properties and the applications

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jnm/mof/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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