



Advances in Low-Dimensional Metal–Organic Frameworks: Basic Science and Applications

Guest Editor:

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Message from the Guest Editor

Metal-organic frameworks (MOFs), known for their exceptional structural diversity and tunable properties, have emerged as versatile materials with promising applications in various fields. This Special Issue will focus on (but not exclude other subjects) low-dimensional, conducting MOFs which have appeared recently as highly promising materials combining magnetism and electrical conductivity. Contributions are expected to cover a wide range of topics, including but not limited to the design and fabrication of conducting MOFs, either on properly chosen substrates or in aqueous environments, and their structural and physicochemical properties, as well as their applications in nanoelectronics, catalysis, spintronics, gas adsorption, as magnetic or other sensors. New studies on their electronic and magnetic properties ranging from theory and X-ray spectroscopy to optical investigations are also welcome. By bringing together cutting-edge research and insights from experts in the field, this Special Issue seeks to provide a comprehensive overview of the recent advancements in conducting MOFs and their potential impact on various fields.

