

Special Issue

Synthesis and Applications of Metal-Organic Frameworks (MOFs)

Message from the Guest Editors

Nanoporous metal–organic frameworks (MOFs) have generated huge research interest in a wide range of fields since their discovery at the turn of the millennium. Electrochemical synthesis methods naturally yield MOFs as thin film coatings on conductive substrates, which is hugely advantageous for research into the potential electrochemical applications of MOFs. MOFs in electrical applications, including supercapacitors, battery electrodes, electrochemical sensing and data storage.

In this Special Issue, we seek to discuss the most recent advances both in the electrochemical synthesis of MOFs (including novel methods, adaptations of existing methods and mechanisms behind the different methods) and in their use for any and all electrochemical and electrical applications (as pure MOF, in the form of composites or as a precursor for other porous materials). In this regard, studies addressing how structural and morphological properties of MOF crystals and the respective films they constitute relate to electrochemical performance are also highly appreciated.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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