Special Issue

MOF-Based Organometallic Electrochemistry

Message from the Guest Editors

The energy crisis is becoming a critical issue due to population growth and fossil fuel constraints. MOF-based electrochemical devices have great potential to meet future sustainable development as renewable and clean energy systems. The concept of metal-organic frameworks (MOFs) as a new type of porous crystals was first introduced by O. M. Yaghi in 1999. Since then, MOF-based electrocatalysts have been analyzed at the atomic level using advanced characterization techniques and the reaction mechanism has been elaborated by synthetic and computational models. The diversity and tunability of MOF-based electrocatalysts, especially the defect engineering in the structure, which has been intensively investigated by researchers. Currently, explaining the principles of MOF-based electrochemical devices in terms of structure-effect relationship has become a hot research topic of the moment. In this Special Issue, we wish to cover the most recent advances in all these aspects of MOF-based organometallic electrochemistry by hosting a mix of original research articles and short critical reviews.

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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