Special Issue

Inorganic Polymers, Metal–Organic Frameworks, and Their Derivatives as Catalysts

Message from the Guest Editors

Metal–organic frameworks are a versatile compound member of the inorganic polymers family. MOFs exploded at the beginning of the 2000s and erupted into the transcendental fields of chemistry and material science. Its structural properties, stability, dimensionality, and, most importantly, high surface area mean that MOFs are vital for a number of catalytic processes. Globally, sustainable chemistry is more important than ever, and multiple catalytic applications have been developed in the following areas: valorization of CO2, generation of fuels from biomass, reducing water in fuels cells, and a large number of hydrogenation or oxidation reactions where involucrate MOFs are used as catalysts. Heterogeneous catalysis, electrocatalysis, and photocatalysis have increasingly been used in the last decade for MOFs. Moreover, MOF-derived materials obtained by controlled pyrolysis present interesting potential as novel catalytic materials. This Special Issue invites to you to submit your novel research on metal–organic frameworks and their derivatives as catalysts regarding any field related to catalytic processes.

Guest Editors

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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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