Special Issue

Organometallic Complexes for Small Molecule Activation

Message from the Guest Editors

The activation of small molecules continues to be intensely investigated as it offers insights into the fundamental steps of important catalytic transformations. Equally it also provides opportunities to uncover new modes of chemical reactivity and thus augment the available synthetic and catalytic toolkit. Historically, organometallic complexes of the transition metals have been at the forefront of such developments, and continue to play an important role in expanding the chemical space due to their ability to promote the activation of important small molecules in a plethora of ways. These range from established modes of activation to more niche pathways involving non-spectator ligands or modes reminiscent of biological processes such as proton-coupled electron transfer. In this Special Issue dedicated to the activation of small molecules by organometallic complexes, we would like to invite contributions covering some of the recent advances in all these aspects in the form of both original research papers and critical reviews.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2023)

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/si/113602

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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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