

Special Issue

Metal Mediated Small Molecule Activation

Message from the Guest Editor

Small molecules, such as N_2 , O_2 , H_2 , CO_2 and CH_4 , are of biological or industrial relevance and originate from metabolic cycles or industrial processes, which make them inexpensive and readily accessible. However, because of their thermodynamic stability, selective activation and functionalization to value-added products or chemical fuels is not a trivial task and present a significant challenge to the chemical community. In this field, molecular chemists are ideally positioned to contribute to this rapidly expanding area, e.g., by creative ligand design, synthesis, detailed mechanistic and spectroscopic studies. Furthermore, in recent years, catalysts based on non-precious and environmentally benign metals have been introduced and start challenging the traditional ones based on precious metals. This Special Issue intends to cover these developments by providing a platform for organometallic and coordination chemists to present their findings covering complex synthesis, spectroscopic studies to stoichiometric or catalytic activation of small molecules.

Guest Editor

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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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