Special Issue

Transition Metal Complexes as Catalysts

Message from the Guest Editors

Transition metal catalysis is at the forefront of driving developments in contemporary organic synthesis, polymerization reactions, biomass valorization, pollutant remediation, and various other areas. Through these catalytic reactions, researchers have been able to reveal unexpected reactivity, such as the activation of inert bonds as well as achieve construction of unique motifs, synthesize new materials, etc. In this respect, the use of well-defined transition metal complexes as catalysts where the catalytic metal center is stabilized by an organic ligand is particularly fascinating. The ligand backbone is effective in controlling aspects such as reactivity, selectivity, efficiency, and stability of the catalytic metal center. Numerous studies on the ability of the ligand to cooperatively engage with the metal center in facilitating chemical catalysis have also been documented in recent years. This Special Issue aims to capture current endeavors in the broad area of the use of discrete transition-metal complexes in promoting various catalytic reactions.

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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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