

Special Issue

Revealing Reaction Mechanisms in Homogeneous Transition Metal Catalysis

Message from the Guest Editors

Man-made homogeneous catalysis with the aid of transition metal compounds looks back on a long history of almost 100 years. One of the first milestones was probably hydroformylation, worked out by Otto Roelen in the 1930s. With largely improved spectroscopic and analytical tools on one hand and dramatically developing quality of quantum chemical calculations on the other, more and more studies seek insight into catalytic mechanisms. This Special Issue intends to bring together experimental, theoretical, and mixed experimental-theoretical approaches to reveal mechanisms in transition metal catalyzed organic, inorganic, organometallic, and biochemical transformations. It will focus on the role of the transition metal(s) in binding and activating substrates, transforming them and finally releasing them. Studies dedicated to bringing insight into reaction mechanisms, including tracing or characterization of intermediates or modelling essential reaction steps are welcome.

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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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