



## Revealing Reaction Mechanisms in Homogeneous Transition Metal Catalysis

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Homogeneous, Bioinspired and  
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### Message from the Guest Editors

Dear Colleagues,

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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## Message from the Editor-in-Chief

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