Inorganics
An Open Access Journal by MDPI

Revealing Reaction Mechanisms in Homogeneous Transition Metal Catalysis

Guest Editors:

Prof. Dr. Axel Klein
University of Cologne, Department of Chemistry, Institute of Inorganic Chemistry, Cologne, Germany.
axel.klein@uni-koeln.de

Prof. Dr. Bernd Goldfuß
University of Cologne, Department of Chemistry, Institute for Organic Chemistry, Cologne, Germany.
goldfuss@uni-koeln.de

Dr. Jarl Ivar van der Vlugt
Homogeneous, Bioinspired and Supramolecular Catalysis, van’t Hoff Institute for Molecular Sciences, University of Amsterdam, Amsterdam, The Netherlands
J.I.vanderVlugt@uva.nl

Deadline for manuscript submissions: closed (15 October 2017)

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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Guest Editors

mdpi.com/si/8787
Editor-in-Chief

Prof. Dr. Duncan H. Gregory
School of Chemistry, University of Glasgow, University Avenue, Glasgow, G12 8QQ, UK

Message from the Editor-in-Chief

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.

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Contact us

Inorganics
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland
Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com
mdpi.com/journal/inorganics
inorganics@mdpi.com
@inorganics_MDPI