



Revealing Reaction Mechanisms in Homogeneous Transition Metal Catalysis

Guest Editors:

Prof. Dr. Axel Klein

Department of Chemistry,
Institute of Inorganic Chemistry,
University of Cologne, D-50939
Cologne, Germany

Prof. Dr. Bernd Goldfuß

Institute for Organic Chemistry,
Department of Chemistry,
University of Cologne, Cologne,
Germany

Dr. Jarl Ivar Van der Vlugt

Homogeneous, Bioinspired and
Supramolecular Catalysis, van 't
Hoff Institute for Molecular
Sciences, University of
Amsterdam, 1090 GS Amsterdam,
The Netherlands

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.

Prof. Dr. Axel Klein

Prof. Dr. Bernd Goldfuß

Dr. Jarl Ivar van der Vlugt

Guest Editors





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Inorganic & Nuclear*) / CiteScore - Q2 (*Inorganic Chemistry*)

Contact Us

Inorganics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/inorganics
inorganics@mdpi.com
[X@inorganics_MDPI](https://twitter.com/inorganics_MDPI)