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: 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

Author Benefits

Open Access: free for readers, with publishing fees paid by authors or their institutions.  
High visibility: Indexed in the Emerging Sources Citation Index (ESCI - Web of Science).  
Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 7 days (median values for papers published in this journal in 2016).