



Homogeneous Catalysis with Main Group Organometallics

Guest Editors:

Prof. Dr. Jun Okuda

Chair of Organometallic
Chemistry, Institute of Inorganic
Chemistry, RWTH Aachen
University, D-52056 Aachen,
Germany

Dr. Ajay Venugopal

Indian Institute of Science
Education and Research
Thiruvananthapuram, School of
Chemistry, Thiruvananthapuram
695551, India

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Message from the Guest Editors

Dear Colleagues,

In the recent past, there has been considerable interest in developing homogeneous catalysts based on structurally well-characterized compounds of the main group metals. Following the recognition that elementary reactions such as oxidative addition or sigma-bond metathesis, main group compounds are indeed found to catalyze reactions previously reserved to transition metal compounds. This surge in interest clearly stems from novel concepts such as frustrated Lewis base pairs which make it possible to view s- and p-block metals as potentially useful and often inexpensive earth-abundant metals.

More recently, by introducing main group metals as ligand parts in organotransition metal catalysts, new perspectives for homogeneous catalysts on transition metals have evolved. This area of heterobimetallic compounds as catalyst precursors hold great promise for the future design of more active and/or selective homogeneous catalysts.

In this Special Issue, we wish to cover the most recent advances in all aspects of main group chemistry relevant to homogeneous catalysis by hosting both original research articles and short critical reviews.





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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

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Inorganics Editorial Office
MDPI, Grosspeteranlage 5
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