



## Metal Mediated Small Molecule Activation

Guest Editor:

**Prof. Dr. Marc D. Walter**

Technische Universität  
Braunschweig, Institute for  
Inorganic and Analytic Chemistry,  
Braunschweig, Germany

Deadline for manuscript  
submissions:

**closed (31 May 2018)**

### Message from the Guest Editor

Dear Colleagues,

Small molecules, such as  $N_2$ ,  $O_2$ ,  $H_2$ ,  $CO_2$  and  $CH_4$ , are of biological or industrial relevance and originate from metabolic cycles or industrial processes, which make them inexpensive and readily accessible. However, because of their thermodynamic stability, selective activation and functionalization to value-added products or chemical fuels is not a trivial task and present a significant challenge to the chemical community. In this field, molecular chemists are ideally positioned to contribute to this rapidly expanding area, e.g., by creative ligand design, synthesis, detailed mechanistic and spectroscopic studies. Furthermore, in recent years, catalysts based on non-precious and environmentally benign metals have been introduced and start challenging the traditional ones based on precious metals. This Special Issue intends to cover these developments by providing a platform for organometallic and coordination chemists to present their findings covering complex synthesis, spectroscopic studies to stoichiometric or catalytic activation of small molecules.

Prof. Dr. Marc D. Walter

*Guest Editor*





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 and Nuclear*) / CiteScore - Q2 (*Inorganic Chemistry*)

## Contact Us

---

*Inorganics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

mdpi.com/journal/inorganics  
inorganics@mdpi.com  
X@inorganics\_MDPI