



## Novel Non-Covalent Interactions

Guest Editor:

**Dr. Tiddo J. Mooibroek**

Van't Hoff Institute for Molecular  
Sciences, University of  
Amsterdam, Amsterdam, The  
Netherlands

Deadline for manuscript  
submissions:

**closed (15 December 2019)**

### Message from the Guest Editor

Dear Colleagues,

Classical non-covalent interactions, such as hydrogen bonding and  $\pi$ - $\pi$  stacking interactions, are widely exploited in fields as diverse as crystal engineering, supramolecular chemistry and molecular biology. It is indeed well-known that molecular binding, aggregation, crystal packing and conformer stability are largely determined by such forces. Advances in computational, analytical and synthetic methodologies have allowed for the recent flourishing of inquiries into the nature and applicability of all types of non-covalent interactions. This has led to the identification of halogen bonding and anion- $\pi$  interactions, and more generally to  $\sigma$ -hole and  $\pi$ -hole interactions. Such newly studied interactions are often relatively weak, yet it is by now well-known that even weak interactions can be structurally and/or functionally relevant. This Special Issue of *Inorganics* aims at celebrating these recent insights with articles where novel non-covalent interactions are studied and/or used in the design of a functional molecular system.

Dr. Tiddo J. Mooibroek  
*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