Special Issue

Development and Applications of Sterically Demanding Ligands in Main Group Chemistry

Message from the Guest Editor

Many recent advances in main group chemistry have been achieved with compounds bearing highly sterically demanding ligand systems. These ligands can shape compound geometries and properties, facilitate or prevent certain reaction pathways, and thus enable new forms of chemistry with main group elements.

These endeavours often started with exploratory fundamental studies of sterically demanding ligand systems at main group element centres, leading to a wide range of both broadly anticipated findings and highly surprising discoveries. The synthesis of new sterically demanding ligand systems, their connection to main group fragments, and the further transformations of their complexes can lead to new challenges, however, because of the significant impact of the ligand bulk, in some instances, minor differences in ligand architecture have led to significantly different reaction outcomes and this field still holds many surprises and opportunities for main group chemistry.

In this Special Issue, we welcome contributions to this field that shine a light on new findings in main group chemistry with sterically demanding ligand systems.

Guest Editor

Dr. Andreas Stasch

EaStCHEM School of Chemistry, University of St Andrews, North Haugh, St Andrews KY16 9ST, UK

Deadline for manuscript submissions

closed (31 March 2025)

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/si/200432

Inorganics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inorganics@mdpi.com

mdpi.com/journal/inorganics

Inorganics

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 4.1

mdpi.com/journal/inorganics

About the Journal

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.

Editor-in-Chief

Prof. Dr. Duncan H. Gregory
School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).