

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

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Editor-in-Chief

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