

Internal Webinar

New Ligand Architectures for Main Group Catalysts

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Relative to the transition metals, the reactivity of compounds derived from the p-block elements is much less studied. This comparative scarcity of knowledge regarding reactivity has led to the generally accepted folklore that the p-block elements are chemically less versatile than their d-block counterparts. However, in the last two decades, a number of advances have inspired a renaissance in main group chemistry which are dispelling the above dogma. Relating to this, my current research aims to develop new ligand architectures to stabilise low-coordinate, low-valent p-block compounds and to explore them as alternative systems to transition metal complexes for the activation of small molecules as well as for important organic transformations and catalytic reactions.

Wednesday, Jan 24th 2024

12:45 Hrs

