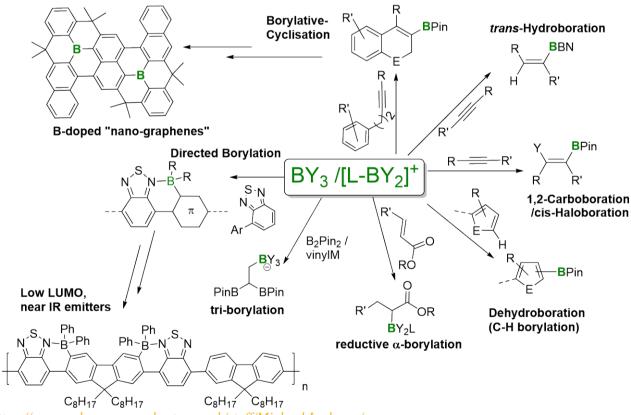
Main Group Electrophiles for Stoichiometric and Catalytic C-B Bond Formation for Synthetic and Materials Applications

Michael J. Ingleson*

School of Chemistry, The University of Manchester, Manchester, M13 9PL, United Kingdom Email: michael.ingleson@manchester.ac.uk

The Ingleson group focuses on using earth abundant, non-precious metal compounds to develop new stoichiometric conversions, catalytic reactions and materials. The group principally achieves this by using main group electrophiles (based on B, Zn, P, C or Si), with a major focus in the group being on all aspects of organoboron chemistry. This talk will present a selection of the group's studies on using Main Group (principally boron based) electrophiles for forming C-B bonds. This generates organoboranes that are ubiquitous precursors for a range of transformations (e.g. the Suzuki-Miyaura reaction) and organoboranes that are useful in their own right, for example as highly emissive (in the far red / near Infra-Red region of the spectrum) materials, or as electro-catalysts for the oxygen reduction reaction.

For references / more details see the group website:



https://personalpages.manchester.ac.uk/staff/Michael.Ingleson/