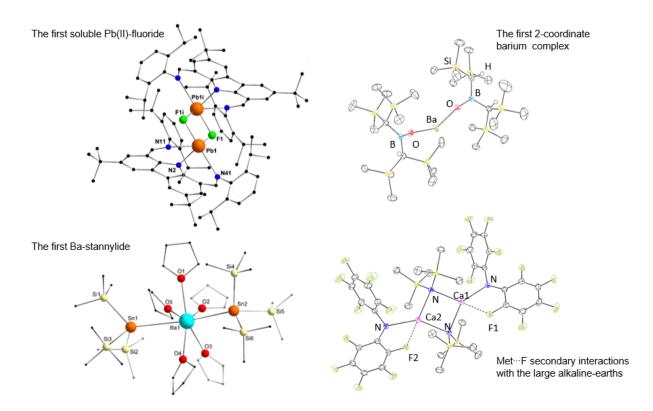
## Main group organometallic chemistry in Rennes

Yann SARAZIN, a Peter M. CHAPPLE, a Gabriel DUNEŞ, a Erwann LE COZa

Affiliation : <sup>a</sup> Université de Rennes, CNRS, Institut des Sciences Chimiques de Rennes, UMR 6226, Campus de Beaulieu, 35042 Rennes, Cedex, France. E-mail: yann.sarazin@univ-rennes.fr

Our group in Rennes has been investigating the chemistry and reactivity of main group metals for nearly 15 years. We have particularly focused our attention on the larger alkaline earths Ca, Sr and Ba, going from the design of complexes with a controlled coordination sphere to their implementation as molecular (pre)catalysts in a range of organic transformations, e.g. hydrofunctionalisations and heterodehydrocouplings. Beyond group 2 metals,<sup>[1-4]</sup> we also have an interest in the coordination chemistry of the heavy *p*-block metals, more specifically the tetrels (Sn, Pb)<sup>[5]</sup> and the pnictogens (Sb, Bi)<sup>[6]</sup> in their low oxidation states. A brief overview of our activities will be highlighted by recent examples of our contributions to the field.



## References:

[1] Erwan Le Coz et al. *Chem. Eur. J.* **2021**, *27*, 11966-11982, [10.1002/chem.202101687]. [2] Peter M. Chapple et al. *Chem. Sci.* **2021**, *12*, 7098-7114, [10.1039/D1SC00436K]. [3] Peter M. Chapple et al. *Angew. Chem. Int. Ed.* **2020**, *59*, 9120-9126, [10.1002/anie.202001439]. [4] Erwann Le Coz et al. *Angew. Chem. Int. Ed.* **2018**, *57*, 11747-11751, [10.1002/anie.201807297]. [5] Peter M. Chapple et al. *Dalton Trans.* **2021**, *50*, 9021-9025, [10.1039/D1DT01615]. [6] Gabriel Duneş et al., manuscript in preparation.

