



DAGORNE Samuel (CNRS senior researcher)

Institut de Chimie de Strasbourg CNRS-University of Strasbourg (UMR 7177); Resp. Team "Synthèse, Réactivité et Catalyse Organométallique" (SRCO)

Address : 1, rue Blaise Pascal, 67000 Strasbourg, France

Phone : +33- 368- 851- 530

Email : dagorne@unistra.fr

Professional Experience and Education

Since 01/10/2015	CNRS senior researcher , section 14. Institut de Chimie, UMR 7177, Université de Strasbourg
03/2006 - 30/09/2015	CNRS researcher , section 14. Institut de Chimie, UMR 7177, Université de Strasbourg
02/2007	Habilitation à Diriger des Recherches (HDR) , Université Louis Pasteur, Strasbourg.
10/2000-03/2006	CNRS researcher , section 14. Laboratoire de Chimie et Biochimie des Complexes Moléculaires, UMR 7576, Ecole Nationale Supérieure de Chimie de Paris.
09/1999-08/2000	Post-doct in the lab of Prof. R. R. Schrock (Nobel Prize in chemistry, 2005), MIT, Cambridge, M.A., USA.
01/1995-07/1999	PhD in organometallic chemistry (Prof. R. F. Jordan, The Univ. of Iowa, Iowa City, IA, USA.
Juin 1994	Maitrise de Chimie , mention Bien. Université de Rennes
Juin 1993	Licence de Chimie (Bachelor's degree), mention Bien. Université de Rennes

Research Interests

Organometallic chemistry of earth-abundant and oxophilic metals: reactivity, polymerization catalysis of bio-sourced monomers and CO₂ functionalization catalysis

Scientific production and Miscellaneous

- 1 book edition, 80 publications, 8 book chapters, 3 patents, 50 invited lectures/seminars
- SCS (Société Chimique de Suisse) Sandmeyer Award in 2013 for metal-mediated production of biomaterials through polymerization catalysis
- 2016-21: Member (appointed) of the Comité National de la recherche scientifique (Paris, France)

Selected representative and recent publications

- 'Accessing Two-Coordinate Zn^{II} Organocations by NHC Coordination: Synthesis, Structure, and Use as π -Lewis Acids in Alkene, Alkyne, and CO₂ Hydrosilylation' Specklin, D., Hild, F., Fliedel, C., Gourlaouen, C., Veiros, L. F., Dagorne, S. *Chem. Eur. J.* **2017**, 23, 15908.
- 'Group 13 metal (Al, Ga, In) alkyls supported by N-heterocyclic carbenes for use in lactide ring-opening polymerization catalysis' Schnee, G., Bolley, A., Hild, F., Specklin, D., Dagorne S. *Catalysis Today* **2017**, 289, 204.
- 'Dinuclear Zinc N-heterocyclic Carbene Complexes for either the Controlled Ring-Opening Polymerization (ROP) of lactide or the Controlled Degradation of Polylactide Under Mild Conditions' Fliedel, C., Vila-Viçosa, D., Calhorda, M. J., Dagorne S., Avilés, T. *ChemCatChem* **2014**, 6, 1357.
- 'Normal-to-Abnormal NHC Rearrangement of Al, Ga, and In Trialkyl Complexes: Scope, Mechanism, Reactivity Studies, and H₂ Activation' Schnee, G., Faza, O. L., Specklin, D., Jacques, B., Karmazin, L., Welter, R., Dagorne, S. *Chem. Eur. J.* **2015**, 21, 17959.
- *Modern Organoaluminum Reagents: Preparation, Structure, Reactivity and Use*; Woodward, S., Dagorne, S. (Eds), *Top. Organomet. Chem.* **2013**, volume 41, (ISBN-13: 978-3642336713).