

SABO-ETIENNE Sylviane

Personal Details:

Date of birth: 5th February 1956. Married, 2 children.

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Education:

1980: Doctorat de 3^{ème} Cycle (Université Paul Sabatier, Toulouse). Equivalent to a PhD.

1984: Doctorat d'Etat (Université Paul Sabatier, Toulouse). Equivalent to a Habilitation.

Work experience:

Oct. 1980-Sept. 1997 Chargée de Recherche CNRS

Oct. 1980-Dec. 1985 at the LCC, Toulouse; Jan. 1986-Aug. 1989 : at the University of Brest

Sept. 1989-Aug. 1990 Research Associated in the group of M. Brookhart (Chapel Hill, USA).

Recipient of a NSF/CNRS fellowship

10/1997 - 09/2009 : Directrice de Recherche 2nd class, CNRS, LCC, Toulouse, France

10/2009 - : Directrice de Recherche 1st class, CNRS, LCC, Toulouse, France

Group leader at LCC: "Architecture Organométallique et Catalyse"

<http://www.lcc-toulouse.fr/lcc/spip.php?article434>

Fellow of the Royal Society of Chemistry

Member of the Editorial Board of Dalton Transactions since 2006

Member of the Advisory Board of Inorganic Chemistry since 2008

Member of the Advisory Board of Organometallics since 2010

Seaborg Lectures in Inorganic Chemistry, 2010, Berkeley (USA)

RSC Frankland Award 2010

Research Interests: Organometallic Chemistry, Catalysis, Coordination chemistry.

Publications and Conferences:

ca. 120 Publications. 4 Patents.

Invited speaker in international meetings: 82nd CSC Conference, XXXIV ICCC, Gordon Conference 2000, SI SOUM-Montreal, 8th International Conference on the Chemistry of the Platinum Group Metals, 7th FIGIPS, Dalton Discussion 6, Discussion Leader Gordon Conference 2006, First Decat Conference on Catalysis 2007, 40th Silicon Symposium, Gordon Conference 2008, IMEBORON XIII, Hydrogen and Hydrogen Storage 2009, XXXII Reunión Bienal de la Real Sociedad Española de Química ...

Some recent references:

1. The σ -CAM Mechanism: σ -Bond Metathesis is Established for Late Transition Metals through σ -Complexes.
R. N. Perutz, S. Sabo-Etienne, *Angew. Chem. Int. Ed.* 2007, *Review*, 46, 2578-2592.
2. Agostic Interaction and Intramolecular Proton Transfer from the Protonation of Dihydrogen Ortho Metalated Ruthenium Complexes.
A. Toner, J. Matthes, S. Gründemann, H.-H. Limbach, B. Chaudret, E. Clot, and S. Sabo-Etienne *PNAS*, 2007, 104, 6945-6950.
3. A Terminal Borylene Ruthenium Complex: From B-H Activation to Reversible Hydrogen Release.
G. Alcaraz, U. Helmstedt, E. Clot, L. Vendier, S. Sabo-Etienne *J. Am. Chem. Soc.*, 2008, 130, 12878-12879.
4. Phosphinoborane and sulfidoborohydride as chelating ligands in polyhydride ruthenium complexes : agostic σ -borane versus dihydroborate coordination
Y. Gloaguen, G. Alcaraz, A.-F. Pecharman, E. Clot, L. Vendier, S. Sabo-Etienne *Angew. Chem., Int. Ed.* 2009, 48, 2964-2968.
5. Versatile Coordination of 2-Pyridinetetramethyldisilazane at Ruthenium : Ru(II) vs Ru(IV) As Evidenced by NMR, X-ray, Neutron, and DFT Studies. M. Grellier, T. Ayed, J.-C. Barthelat, A. Albinati, S. Mason, L. Vendier, Y. Coppel, and S. Sabo-Etienne *J. Am. Chem. Soc.* 2009, 131, 7633-7640.
6. Bis σ -Bond Dihydrogen and Borane Ruthenium Complexes: Bonding Nature, Catalytic Applications, and Reversible Hydrogen Release
G. Alcaraz, M. Grellier, and S. Sabo-Etienne *Acc. Chem. Res.* 2009, 42, 1640-1649.
7. Ruthenium bis(σ -B-H) aminoborane complexes from dehydrogenation of amine-boranes : trapping of H_2B-NH_2
G. Alcaraz, L. Vendier, E. Clot, S. Sabo-Etienne *Angew. Chem., Int. Ed.* 2010, 49, 918-920.
8. Ruthenium-Catalyzed Hydrogenation of Nitriles: Insights into the Mechanism.
R. Reguillo, M. Grellier, N. Vautravers, L. Vendier, and S. Sabo-Etienne *J. Am. Chem. Soc.* 2010, DOI: 10.1021/ja102759z.