



# Indo-French Seminar on Catalysis for Sustainability

10-13 December 2023

## Jean-Baptiste Sortais

*Professor*

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Jean-Baptiste Sortais is professor at the Paul Sabatier University in Toulouse (France) and conducts his research work on homogeneous organometallic catalysis within a laboratory of the French National Research Centre (CNRS) - the Laboratory for Coordination Chemistry (LCC).

Jean-Baptiste Sortais obtained a DEA graduate degree (Master 2), then a PhD at the University of Strasbourg (then Louis Pasteur University) under the supervision of Dr. Michel Pfeffer. His research work focused on the synthesis of chiral cyclometallated complexes of ruthenium and their applications in catalysis. He subsequently carried out two post-doctoral stays; with Professor Jan-Erling Bäckvall at the University of Stockholm (Sweden) on dynamic kinetic resolution, then with Professor Gerhard Erker at the University of Münster (Germany) in the field of Lewis-Frustrated pairs. In 2009, he was recruited as associate professor within the team Organometallics: Materials and Catalysis at the Rennes Institute of Chemical Sciences (ISCR) of the University of Rennes 1. In 2017, he was promoted to full professor at the Paul Sabatier University in Toulouse.

His current research work is mainly focused on the development of new molecular catalysts based on abundant 3d transition metals, such as iron, nickel, cobalt, and manganese. Catalytic applications focus on reduction processes in the broad sense (hydroelementation, hydrogenation, dehydrogenation, hydrogen transfer, hydrosilylation, hydroboration and hydrogen borrowing) and direct activation of C-H bonds. The main objective of his work is thus to promote new reactivities and/or selectivities based on readily available and inexpensive metal catalysts in the context of sustainable chemistry.

In 2016, he was appointed Junior Member of the Institut Universitaire de France (IUF) and received the 2019 Young Researcher Award from the Catalysis Division of the French Chemistry Society (SCF).