

Pierre H. Dixneuf, Professor University of Rennes, France

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Pierre H. Dixneuf obtained his doctorate of Science in Rennes (France) in 1971 with Prof René Dabard, on ferrocene chemistry, and carried out postdoctoral work as a CNRS researcher on the first steps of N-Heterocyclic Carbene-Metal complexes with Prof. Michael F. Lappert at the University of Brighton, UK in 1972. He became a professor at the University of Rennes in 1978.

His research interests in Rennes included first both organometallic chemistry toward carbon-rich complexes and innovative catalytic processes promoted by ruthenium catalysts. He developed selective catalytic transformations of alkynes and incorporation of CO₂, such as into vinylcarbamates and functional carbonates, ruthenium-vinylidenes and -allenylidenes in catalysis, enantioselective catalytic hydrogenation, alkene metathesis catalysts from allenylidenes and for catalytic transformation of plant oils. He is now contributing to C–H bond activation/functionalization using ruthenium(II) catalysts especially operating in water and to the activation of ligands pyridines and phosphines via sp²C–H and sp³C–H bond functionalization with Rh(I) and Cu(I) catalysts, and also to interrupted hydrogenation for innovation in synthesis.

He has co-authored more than 490 publications and reviews (17 with Chemists from Turkey), co-edited 7 books and his work has been acknowledged with several international prizes including: A. v Humboldt prize for Research 1990, Le Bel SFC award 2000 and Grignard-Wittig Prize (GDCh) 2001, Institut universitaire de France member since 2000, academie des sciences IFP prize, Sacconi medal (Italy) in 2006, Spanish-and Chinese Society of Chemistry award in 2014,

He is a member of the European Academy Sciences & Arts in 2014, the Portugal academy of sciences in 2017, the National Academy Sciences India in 2020 and the Academia Europaea in 2022.

He is currently an Emeritus Research Professor at the University of Rennes, where he founded the research Institut de chimie de Rennes in 2000 and was university vice-president for research in 2001-2004.