Special Issue

N-Heterocyclic Carbene Metal Complexes: From Design to Applications

Message from the Guest Editor

N-Heterocyclic Carbenes (NHCs) have witnessed tremendous growth over the last quarter century, since the report by Arduengo and coworkers, in 1991, on the isolation of the first stable free carbene. However, the synthesis of the first (NHC)-metal complexes was reported back in 1968 by Ofele and Wanzlick. The ubiquitous nature of these carbene ligands allowed them to become privileged ligands in the area of organometallics and catalysis. More recently, the chemistry of metallo-carbenes has started gain interest from other fields by acting as metallodrugs, in metallosupramolecular chemistry and also in the area of photoluminescence. Indeed, due to their strong □-donor, a novel class of stable luminescent materials with useful properties was obtained. This Special Issue aims to highlight the structural and chemical diversity of *N*-heterocyclic carbene metal complexes, as well as their broad fields of application.

Guest Editor

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Editor-in-Chief

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