

Coordination chemistry and catalytic use of functional phosphinoferrocene carboxamides

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Phosphinoferrocene donors nowadays represent an integral part of the catalytic chemist's toolbox, being typically utilized as supporting ligands in a whole palette of transition metal-mediated organic transformations. This contribution will be focused on the design and catalytic use of several specific ferrocene-based donors, namely phosphino-carboxylic amides that have been studied in the recent past (Scheme 1). Attention will be paid to synthesis of these compounds, their coordination properties and catalytic applications in Cu- and Pd-catalyzed organic reactions.

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1990–1995 studies in inorganic chemistry at the Faculty of Science, Charles University, 1995–1998 Ph.D. at the Department of Inorganic Chemistry, Faculty of Science, Charles University, since 1998 employed at the Department of Inorganic Chemistry, Faculty of Science, Charles University (1998–2005 – Assistant Professor, 2005–2012 Associate Professor), since 2012 Professor of Inorganic Chemistry, since 2016 Head of the Department of Inorganic Chemistry, Faculty of Science, Charles University.

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