DESCRIPTION

This new book on this hot topic summarizes the key achievements for the synthesis and catalytic applications of pincer and pincer-type complexes, providing readers with the latest research highlights.

The editors have assembled an international team of leaders in the field, and their contributions focus on the application of various pincer complexes in modern organic synthesis and catalysis, such as C-C and C-X bond forming reactions, C-H bond functionalization, and the activation of small molecules, as well as asymmetric catalysis.

A must-have for every synthetic chemist in both academia and industry intending to develop new catalysts and improved synthetic protocols.

ABOUT THE AUTHOR

Kálmán J. Szabó is professor at the Department of Organic Chemistry at the Arrhenius Laboratory, Stockholm University, Sweden, since 2003. He obtained his PhD at Lund University, Sweden, with Prof. Salo Gronowitz in 1993, and did his postdoctoral research with Prof. Dieter Cremer at University of Gothenburg, Sweden. Szabó's research interest involves theoretical and experimental aspects of organic synthesis, organometallic chemistry and homogenous catalysis. He has developed synthetically useful catalytic transformations, including asymmetric catalysis, based on Pd, Ir, Cu and Ti complexes with a particular attention to C-C, C-B and
C-Sn formation reactions. Currently his research interest focuses on C-H functionalization processes and catalytic organofluoride chemistry. He is the author of more than 100 publications and several book chapters.

Ola F. Wendt is professor of Inorganic Chemistry since 2010 and Head of the Centre for Analysis and Synthesis at Lund University, Sweden. He received his PhD with Prof. Lars Ivar Elding at Lund University in 1997 and then moved to Caltech in Pasadena (USA) to do postdoctoral work with Prof. John Bercaw for two years. His major research interests revolve around organotransition metal chemistry, homogeneous catalysis and mechanistic studies. He has developed numerous pincer based complexes with palladium, platinum and iridium, and has studied their applications and mechanisms in cross-coupling reactions and small molecule activation. Since 2010 he is an elected fellow of the Royal Physiographic Society in Lund. He is the author of more than 70 publications and review articles.

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