# Chirality in Transition Metal Chemistry: Molecules, Supramolecular Assemblies and Materials

Hani Amouri, Michel Gruselle, J. Derek Woollins (Series Editor), David A. Atwood (Series Editor), Robert H. Crabtree (Series Editor), Gerd Mayer (Series Editor)

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## DESCRIPTION

*Chirality in Transition Metal Chemistry* is an essential introduction to this increasingly important field for students and researchers in inorganic chemistry. Emphasising applications and real-world examples, the book begins with an overview of chirality, with a discussion of absolute configurations and system descriptors, physical properties of enantiomers, and principles of resolution and preparation of enantiomers. The subsequent chapters deal with the specifics of chirality as it applies to transition metals.

Some reviews of *Chirality in Transition Metal Chemistry*

"...useful to students taking an advanced undergraduate course and particularly to postgraduates and academics undertaking research in the areas of chiral inorganic supramolecular complexes and materials." *Chemistry World, August 2009*

"...the book offers an extremely exciting new addition to the study of inorganic chemistry, and should be compulsory reading for students entering their final year of undergraduate studies or starting a Ph.D. in structural inorganic chemistry.” *Applied Organometallic Chemistry Volume 23, Issue 5, May 2009*

"...In conclusion the book gives a wonderful overview of the topic. It is helpful for anyone entering the field through systematic and detailed introduction of basic information. It was time to publish a new and topical text book covering the important aspect of..."
coordination chemistry. It builds bridges between Inorganic, organic and supramolecular chemistry. I can recommend the book to everybody who is interested in the chemistry of chiral coordination compounds.

Angew. chem. Volume 48, Issue 18, April 2009

About the Series

*Chirality in Transition Metal Chemistry* is the latest addition to the Wiley *Inorganic Chemistry Advanced Textbook* series. This series reflects the pivotal role of modern inorganic and physical chemistry in a whole range of emerging areas such as materials chemistry, green chemistry and bioinorganic chemistry, as well as providing a solid grounding in established areas such as solid state chemistry, coordination chemistry, main group chemistry and physical inorganic chemistry.

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**ABOUT THE AUTHOR**

**Haniel Amouri**, was born in Anapolis Goias (Brazil) and obtained his Ph.D. degree (1987) in chemistry from Universite Louis Pasteur Strasbourg (France), with Professor John A. Osborn, on the subject of homogeneous catalysis (hydrogenation). In 1988 he spent one year at Gif-sur-Yvette (France) as a post-doctoral fellow with Dr Hugh Felkin where he studied C-H activation of saturated hydrocarbon with transition metal polyhydrides. In 1992-1993 he spent one year at UC-Berkeley (USA) with Professor K. Peter C. Vollhardt and was working on the synthesis of oligocyclopentadienyl metal complex and their behaviour as electron transfer reagents. He is a Research Director in CNRS and is currently the director of the 'ARC' group (Auto-assemblage, Reconnaissance et Chiralite) of the IPCM at Universite Pierre et Marie Curie Paris-6. His main research interests are chirality, organometallic and coordination chemistry, and he has had over 90 research papers and reviews published in international scientific journals.

**Michel Gruselle** was born in Decazeville (France) and obtained his Ph.D. degree (doctorat d'Etat) in the CNRS laboratory of Thiais, a suburb of Paris, in 1975 with Dr Daniel Lefort where he worked on stereochemical problems in radical chemistry. In 1974 he joined Bianca Tchoubar’s group and started working on nitrogen activation by organometallic complexes, and he spent some time collaborating with Prof. A.E. Shilov in Moscow. He is a Research Director in CNRS at Universite Pierre et Marie Curie Paris-6 and was the director of the ARC group (Auto-assemblage, Reconnaissance et Chiralite) at the IPCM from 1996-2000. His main research interests are enantioselective synthesis in coordination chemistry and in material science and he has had over 110 research papers and reviews published in international scientific journals.
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