



# **Innovative Catalysis in Organic Synthesis: Oxidation, Hydrogenation, and C-X Bond Forming Reactions**

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## **Innovative Catalysis in Organic Synthesis: Oxidation, Hydrogenation, and C-X Bond Forming Reactions**

C-H, C-O, C-C, and C-Heteroatom bond forming processes by using metal-ligand approaches for the synthesis of organic compounds of biological, pharmacological and organic nanotechnological utility are the key areas addressed in this book. Authored by a European team of leaders in the field, it brings together innovative approaches for a variety of catalysis reactions and processes frequently applied in organic synthesis into a handy reference work. It covers all major types of catalysis, including homogeneous, heterogeneous, and organocatalysis, as well as mechanistic and computational studies. Special attention is paid to the improvements in efficiency and sustainability of important catalytic processes, such as selective oxidations, hydrogenation, and cross-coupling reactions, and to their utilization in industry.

The result is a valuable resource for advanced researchers in both academia and industry, as well as graduate students in organic chemistry aiming for chemo-, regio- or stereoselective synthesis of organic compounds by using novel catalytic systems.

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