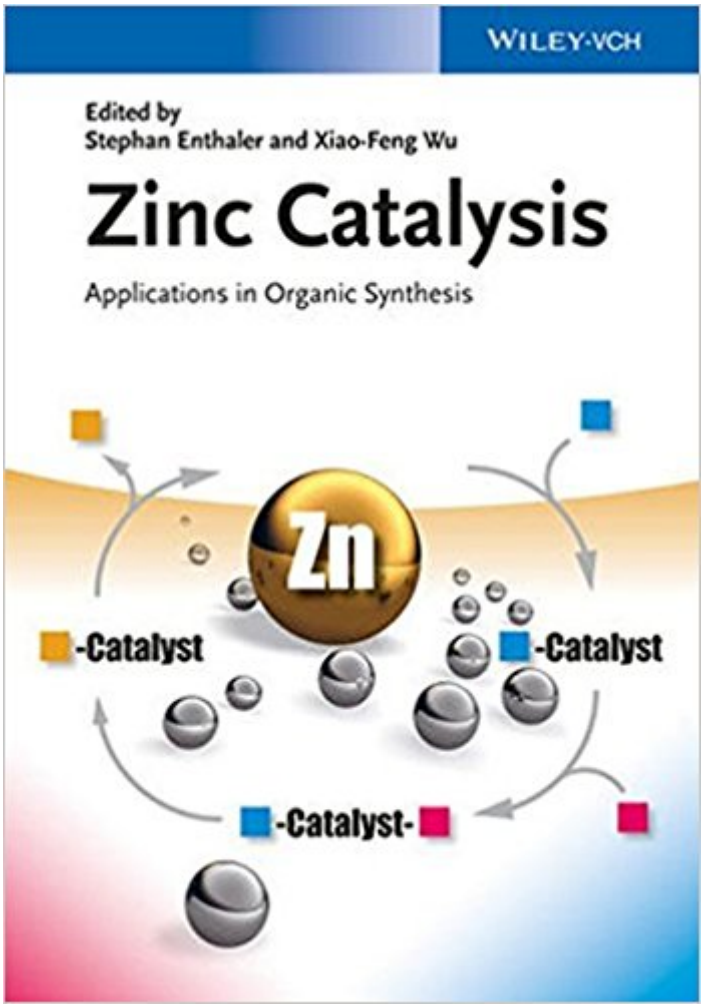
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Zinc Catalysis: Applications In Organic Synthesis



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Synopsis

Filling the gap in the market for comprehensive coverage of this hot topic, this timely book covers a wide range of organic transformations, e. g. reductions of unsaturated compounds, oxidation reactions, Friedel-Crafts reactions, hydroamination reactions, depolymerizations, transformations of carbon dioxide, oxidative coupling reactions, as well as C-C, C-N, and C-O bond formation reactions. A chapter on the application of zinc catalysts in total synthesis is also included. With its aim of stimulating further research and discussion in the field, this is a valuable reference for professionals in academia and industry wishing to learn about the latest developments.

Book Information

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Customer Reviews

Zinc can be an interesting and attractive alternative to precious metals as catalysts due to good abundance, low costs, biological relevance and low toxicity. For this reason, research in the field of zinc catalysis has tremendously grown over the last years leading to numerous interesting applications in organic synthesis. Filling the gap in the market for comprehensive coverage of this hot topic, this unique and timely book is written by international experts who adopt a sustainable approach here. Chapters include information on synthesis, physical properties, coordination and biochemistry of zinc complexes, but with the primary focus being on applications in organic transformations, i.e. the reduction of unsaturated compounds, oxidation reactions, polymerizations, C-O and C-N bond cleavage reactions, Friedel-Crafts reaction, hydroamination as well as C-C, C-N, C-O bond formation reactions. Aimed at stimulating further research and discussion in the field of

zinc catalysis, this is a valuable reference for professionals in academia and industry!

Stephan Enthaler is the leader of a young researcher's group in the field of homogeneous catalysis at the Technical University Berlin, Germany. He studied chemistry at the University of Rostock (Germany) and obtained his PhD from the Leibniz-Institute for Catalysis at the University of Rostock under the supervision of Prof. M. Beller. Afterwards he moved to Massachusetts Institute of Technology (MIT, Cambridge, USA) for postdoctoral studies. In 2009, he returned to Germany to the Technical University Berlin to work within the Cluster of Excellence "Unifying Concepts in Catalysis" (UniCat). His research interests are focused on the development of homogeneous catalysts for organic transformations and for chemical recycling of polymers. Xiao-Feng Wu leads a junior research group at Zhejiang Sci-Tech University (China) and Leibniz-Institute for Catalysis in Rostock (Germany). He studied chemistry at Zhejiang Sci-Tech University, where he obtained his bachelor's degree in science in 2007. In the same year, he went to UniversitÃƒÂ Ã Â¿Ã Â de Rennes 1 (France) to work with Prof. C. Darcel. He obtained his master's degree there in 2009 and then joined the group of Prof. M. Beller at the Leibniz-Institute for Catalysis in Rostock, where he completed his PhD thesis in 2012. His research interests include carbonylation reactions, heterocycle synthesis, and the catalytic application of cheap metals.

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