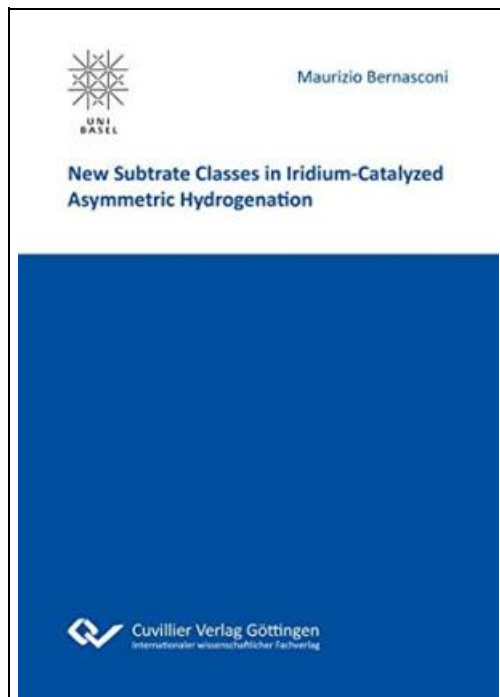


New Substrate Classes in Iridium-Catalyzed Asymmetric Hydrogenation



Filesize: 7.99 MB

Reviews

The ebook is fantastic and great. I am quite late in start reading this one, but better then never. Your life period will probably be convert as soon as you comprehensive reading this ebook.

(Dr. Albertha Hoppe)

NEW SUBSTRATE CLASSES IN IRIDIUM-CATALYZED ASYMMETRIC HYDROGENATION



To get **New Substrate Classes in Iridium-Catalyzed Asymmetric Hydrogenation** PDF, please follow the hyperlink under and download the document or have access to other information that are related to NEW SUBSTRATE CLASSES IN IRIDIUM-CATALYZED ASYMMETRIC HYDROGENATION book.

Cuvillier Verlag Jan 2014, 2014. Taschenbuch. Condition: Neu. Neuware - The main aim of the research presented in this thesis was to expand the substrate scope of the iridium-catalyzed asymmetric hydrogenation, which represents an extremely useful methodology for the enantioselective synthesis of chiral molecules. While this chemistry has been developed and investigated mainly for the hydrogenation of unfunctionalized olefins, so far only little attention has been given to functionalized olefins. Therefore, the different research projects presented in this thesis dealt with the application of iridium catalysts to the reduction of particularly valuable substrates that are difficult to hydrogenate enantioselectively with other methods. The first chapter of this thesis gives a general introduction on asymmetric hydrogenation and the role of iridium catalysts in this context. The following two chapters deal with the investigation of new substrates in the iridium-catalyzed asymmetric hydrogenation using various N₂P ligands developed in the Pfaltz group, and give an account of the superior results that have been obtained with such catalysts compared to those representing the state-of-the-art. In particular, chapter two concerns the reduction of vinylsilanes, for which the judicious choice of the best catalyst for each specific substrate was required to achieve good results in terms of both chemical and optical yield. On the contrary, a pyridinyl phosphitine bearing a 2,6-difluorophenyl group on the oxazoline ring was best suited for a broad array of 2-alkyl- and aryl-substituted maleic acid dimethyldiester, as reported in chapter three. Such process turned out to be enantioconvergent, allowing the hydrogenation of mixtures of maleates and fumarates in high enantiomeric excesses. In chapter four the deployment of environmentally friendly solvents such as THF and 2-MeTHF in the iridium-catalyzed asymmetric hydrogenation of 3,3-disubstituted allylic alcohols is described. Finally, chapter five of this dissertation deals with the development of new NHC ligands for the iridium-catalyzed asymmetric hydrogenation of acid-labile substrates such...



[Read New Substrate Classes in Iridium-Catalyzed Asymmetric Hydrogenation Online](#)



[Download PDF New Substrate Classes in Iridium-Catalyzed Asymmetric Hydrogenation](#)

Relevant PDFs



[PDF] Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee

Follow the link listed below to download "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee" PDF document.

[Read ePub »](#)



[PDF] Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback

Follow the link listed below to download "Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback" PDF document.

[Read ePub »](#)



[PDF] Daddyteller: How to Be a Hero to Your Kids and Teach Them What s Really by Telling Them One Simple Story at a Time

Follow the link listed below to download "Daddyteller: How to Be a Hero to Your Kids and Teach Them What s Really by Telling Them One Simple Story at a Time" PDF document.

[Read ePub »](#)



[PDF] Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Follow the link listed below to download "Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America." PDF document.

[Read ePub »](#)



[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Follow the link listed below to download "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" PDF document.

[Read ePub »](#)



[PDF] Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Follow the link listed below to download "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" PDF document.

[Read ePub »](#)