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Asymmetric Catalysis on Industrial Scale

Challenges, Approaches and Solutions

Second Edition



Asymmetric Catalysis On Industrial Scale Challenges Approaches And Solutions

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Asymmetric Catalysis on Industrial Scale Hans Ulrich Blaser, Hans-Jürgen Federsel, 2011-08-04 This second edition of the pioneering work on this hot topic captures the major trends and latest achievements in the art of asymmetric catalysis on an industrial scale A number of completely new real life case studies written by the world leaders in their respective areas provide a compact and qualified insight into this developing field The resulting ready reference and handbook collates first hand and valuable information within a context where it can be easily found The high quality contributions illustrate the relevant environments and situations such as time pressure how the catalytic step fits into the overall synthesis or competition with other synthetic approaches as well as the typical problems encountered in the various phases including finding developing the catalyst and optimization of the process or choice of equipment Both successful and unsuccessful approaches to solve these problems are described

Asymmetric Catalysis on Industrial Scale Hans Ulrich Blaser, 2007
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Asymmetric Catalysis on Industrial Scale H. U. Blaser, Elke Schmidt, 2004 Publisher Description *Applications of Transition Metal Catalysis in Drug Discovery and Development* Matthew L. Crawley, Barry M. Trost, 2012-07-03 This book focuses on the drug discovery and development applications of transition metal catalyzed processes which can efficiently create preclinical and clinical drug candidates as well as marketed drugs The authors pay particular attention to the challenges of transitioning academically developed reactions into scalable industrial processes Additionally the book lays the groundwork for how continued development of transition metal catalyzed processes can deliver new drug candidates This work provides a unique perspective on the applications of transition metal catalysis in drug discovery and development it is a guide a historical prospective a practical compendium and a source of future direction for the field

Retrosynthesis in the Manufacture of Generic Drugs Pedro Paulo Santos, William Heggie, 2020-11-09 Offers a compendium of information on retrosynthesis and process chemistry featuring innovative reaction maps showing synthetic routes of some widely used drugs This book illustrates how the retrosynthetic tool is applied in the Pharmaceutical Industry It considers and evaluates the many viable synthetic routes that can be used by practicing industrialists guiding readers through the various steps that lead to the best processes and the limits encountered if these are put into practice on an industrial scale of seven key Active Pharmaceutical Ingredient API It presents an evaluation of the potential each process has for implementation before merging the two points of view of retrosynthesis and process chemistry in order to show how retrosynthetic analysis assists in selecting the most efficient route for an industrial synthesis of a particular compound whilst giving insight into the industrial process The book also uses some key concepts used by process chemists to improve efficiency to indicate the best route to select Each chapter in *Retrosynthesis in the Manufacture of Generic Drugs Selected Case Studies* is dedicated to one drug with each containing information on worldwide sales and patent status of the Active Pharmaceutical Ingredient API structure analysis and general retrosynthetic strategy of the API first reported synthesis critical analysis of the processes which have been developed and comparison of the synthetic routes lessons learned reaction conditions for Schemes A to X chemical highlights on key reactions used during the synthesis and references Drugs covered include Gabapentin Clopidogrel Citalopram and Escitalopram Sitagliptin Ezetimibe Montelukast and Oseltamivir Show how the retrosynthetic tool is used by the Pharmaceutical Industry Fills a gap for a book where retrosynthetic analysis is systematically applied to active pharmaceutical ingredients APIs Features analyses and methodologies that aid readers in uncovering practical synthetic routes to other drug substances whether they be NCEs New Chemical Entities or generic APIs Active Pharmaceutical Ingredients Presents information from both the patent and academic literature for those who wish to use as a basis for

further study and thought Features the use of reaction maps which display several synthetic processes in the same scheme and which allow easy comparisons of different routes that give the same molecule or intermediate A selection of these maps are available to download from <https://www.wiley.com/go/santos-retrosynthesis> Retrosynthesis in the Manufacture of Generic Drugs Selected Case Studies is an ideal book for researchers and advanced students in organic synthetic chemistry and process chemistry It will also be of great benefit to practitioners in the pharmaceutical industry particularly new starters and those new to process chemistry

Sustainable Industrial Chemistry Fabrizio Cavani, Gabriele Centi, Siglinda Perathoner, Ferruccio Trifirò, 2009-09-22 In recent years the need for sustainable process design and alternative reaction routes to reduce industry's impact on the environment has gained vital importance The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up to date insight into the main concerns e.g. the use of renewable raw materials the use of alternative energy sources in chemical processes the design of intrinsically safe processes microreactor and integrated reaction separation technologies process intensification waste reduction new catalytic routes and/or solvent and process optimization

Hydrogenation Iyad Karamé, 2012-10-10 The domain of catalytic hydrogenation continues to grow fast reflecting the wide range of chemical applications that can be enhanced by the easy use of molecular hydrogen The advances in characterization techniques and their application have improved our understanding of the catalytic processes and mechanisms occurring in both homogeneous and heterogeneous catalysis The aim of this volume although not exhaustive is to provide a general overview of new progress of the hydrogenation reactions This volume comprises a series of various contributions as reviews or original articles treating heterogeneously and homogeneously catalyzed hydrogenation reactions It is composed of three parts hydrogenation reactions in fine organic chemistry hydrogenation reactions in environmental chemistry and renewable energy and special topics in hydrogenation

Phosphorus Ligands in Asymmetric Catalysis Armin Börner, 2008 *Rendiconti Lincei*, 2007

Science of Synthesis: Catalytic Oxidation in Organic Synthesis Kilian Muñiz, 2018-03-23 The development of catalytic systems for the oxidation of organic compounds continues to be of great importance There is an ongoing and increasing demand for methods that are selective proceed under mild conditions and adhere to green chemistry principles Science of Synthesis Catalytic Oxidation in Organic Synthesis includes the latest developments in the field as well as selective coverage of more well established methods Systems based on metal catalysts organocatalysts and biomimetic oxidation are covered and there is a particular focus on asymmetric processes Scope limitations and mechanism of the reactions are discussed and key experimental procedures are included Typical examples of target synthesis are often provided to show the utility and inspire further applications

Ullmann's Biotechnology and Biochemical Engineering, 2 Volume Set Wiley-VCH, 2007-07-23 The one stop resource for all those involved in the

biochemical and biotechnological industries Based on the latest online edition of Ullmann s Encyclopedia of Industrial Chemistry containing articles never seen before in print this ready reference meets the need for a detailed survey of the biochemical fundamentals and techniques as well as their applications in biochemical engineering and biobased production

Chemistry and Industry ,2004 Scalable Green Chemistry Stefan Koenig,2013-09-11 Packed with real world examples this book illustrates the 12 principles of green chemistry These diverse case studies demonstrate to scientists and students that beyond the theory the challenges of green chemistry in pharmaceutical discovery and development remain an ongoing endeavor By informing and welcoming additional practitioners to this mission the negative environmental impact of pharmaceutical products will continue to be minimized Green chemistry is the methodology by which chemical production in this industry can become more efficient adding environmental stewardship to the noble mission of treating human disease

Palm Oil: Proceedings of oleo & specialty chemicals conference ,2007 Bulletin of the Chemical Society of Japan Nihon Kagakkai,2005 Bulletin of the Korean Chemical Society ,2004 The British National Bibliography Arthur James Wells,2004 American Book Publishing Record ,2004

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