

Edited by
Sergio Riva and Wolf-Dieter Fessner

Cascade Biocatalysis

Integrating Stereoselective
and Environmentally Friendly Reactions



Cascade Biocatalysis Integrating Stereoselective And Environmentally Friendly Reactions

Sergio Riva, Wolf-Dieter Fessner



Cascade Biocatalysis Integrating Stereoselective And Environmentally Friendly Reactions:

Cascade Biocatalysis Sergio Riva, Wolf-Dieter Fessner, 2014-06-23 This ready reference presents environmentally friendly and stereoselective methods of modern biocatalysis The experienced and renowned team of editors have gathered top international authors for this book They cover such emerging topics as chemoenzymatic methods and multistep enzymatic reactions while showing how these novel methods and concepts can be used for practical applications Multidisciplinary topics including directed evolution dynamic kinetic resolution and continuous flow methodology are also discussed From the contents Directed Evolution of Ligninolytic Oxidoreductases from Functional Expression to Stabilization and Beyond New Trends in the In Situ Enzymatic Recycling of NAD P H Cofactors Monooxygenase Catalyzed Redox Cascade Biotransformations Biocatalytic Redox Cascades Involving w Transaminases Multi Enzyme Systems and Cascade Reactions Involving Cytochrome P450 Monooxygenases Chemo Enzymatic Cascade Reactions for the Synthesis of Glycoconjugates Synergies of Chemistry and Biochemistry for the Production of Beta Amino Acids Racemizable Acyl Donors for Enzymatic Dynamic Kinetic Resolution Stereoselective Hydrolase Catalyzed Processes in Continuous Flow Mode Perspectives on Multienzyme Process Technology Nitrile Converting Enzymes Involved in Natural and Synthetic Cascade Reactions Mining Genomes for Nitrilases Key Study on the Kinetic Aspects of the In Situ NHase AMase Cascade System of *M. imperiale* Resting Cells for Nitrile Bioconversion Enzymatic Stereoselective Synthesis of Beta Amino Acids New Applications of Transketolase Cascade Reactions for Assay Development Aldolases as Catalyst for the Synthesis of Carbohydrates and Analogs Enzymatic Generation of Sialoconjugate Diversity Methyltransferases in Biocatalysis Chemoenzymatic Multistep One Pot Processes

12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering, 2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the

Process Systems Engineering Computer Aided Process Engineering community Biocatalysis Gonzalo de Gonzalo, Pablo Domínguez de María, 2017-11-02 Implementing biocatalytic strategies in an industrial setting at a commercial scale is a challenging task necessitating a balance between industrial need against economic viability With invited contributions from small and large scale chemical and pharmaceutical companies this book bridges the gap between academia and industry Contributors discuss current processes types of biocatalysts and improvements industrial motivation and key aspects to economically succeed With its focus on industry related issues this book will be a useful tool for future research by both practitioners and academics

Purification of Laboratory Chemicals W.L.F. Armarego, 2022-08-27 Purification of Laboratory Chemicals Part Two Inorganic Chemicals Catalysts Biochemicals Physiologically Active Chemicals Nanomaterials Ninth Edition describes contemporary methods for the purification of chemical compounds The work includes tabulated methods taken from literature for purifying thousands of individual commercially available chemical substances To help in applying this information the more common processes currently used for purification in chemical laboratories and new methods are discussed For dealing with substances not separately listed another chapter is included setting out the usual methods for purifying specific classes of compounds Laboratory workers whether carrying out research or routine work will invariably need to consult this book Apart from the procedures described the large amount of physical data about listed chemicals is essential This fully updated revised and expanded new edition includes the purification of many new substances that have been available commercially since 2017 along with previously available substances which have found new applications Features empirical formulae and formula weights for every entry References all important applications of each substance Includes updated CAS registry numbers Covers the latest commercial chemical products including pharmaceutical chemicals and safety hazard materials Provides expanded coverage of laboratory work practices and purification methods

Applied Biocatalysis Lutz Hilterhaus, Andreas Liese, Ulrich Kettling, Garabed Antranikian, 2016-09-13 This reference book originates from the interdisciplinary research cooperation between academia and industry In three distinct parts latest results from basic research on stable enzymes are explained and brought into context with possible industrial applications Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts Application of extreme reaction conditions i e unconventional such as high temperature pressure and pH value biocatalysts are normally used within a well defined process window leads to novel synthetic effects Both novel enzyme systems and the synthetic routes in which they can be applied are made accessible to the reader In addition the complementary innovative process technology under unconventional conditions is highlighted by latest examples from biotech industry

Biocatalyst Immobilization Maria Lujan Ferreira, 2022-11-12 Biocatalyst Immobilization Foundations and Applications provides a comprehensive overview of biocatalytic immobilization processes as well as methods for study characterization and application Early chapters discuss current progress in enzyme immobilization and methods for

selecting and pretreating enzymes prior to immobilization with an emphasis on navigating common challenges and employing enzyme supports and post immobilization treatments to impact enzymatic activity Process based chapters instruct on measuring and reporting on enzyme immobilization efficiency protein final content quantification of reaction products and the use of nanomaterials to characterize immobilized enzymes Later chapters examine recent advances including novel enzymatic reactors multi enzymatic biocatalysts enzymatic biosensors whole cell immobilization the industrial application of immobilized enzymes and perspectives on future trends Provides a thorough overview of biocatalyst and enzyme immobilization for research and practical application Presents methods based content that instructs in enzyme immobilization pretreatment enzyme supports post immobilization treatments measuring enzyme immobilization efficiency quantification of reaction products and whole cell immobilization Features chapter contributions from international leaders in the field

Microorganisms for Sustainable Environment and Health Pankaj Chowdhary,Abhay Raj,Digvijay Verma,Yusuf Akhter,2020-07-21 Microorganisms for Sustainable Environment and Health covers hazardous pollutants released from natural as well as anthropogenic activities and implications on environmental and human health This book serves as a valuable source of basic knowledge and recent developments in the clean technologies and pollution associated diseases and abnormalities in the context of microorganisms Focused on current solutions to various environmental problems in the field of bioremediation it provides a detailed knowledge on the various types of toxic environmental pollutants discharged from different sources their toxicological effects in environments humans animals and plants as well as their biodegradation and bioremediation approaches This book helps environmental scientists and microbiologists learn about existing environmental problems and suggests ways to control or contain their effects by employing various treatment approaches Provides information on waste treatment approaches using microbes Includes applications in biofuel and bioenergy production Covers green belt development hydroponics phytoremediation wetland treatment technology and common effluent treatment plants CETPs Discusses dissemination of antibiotic resistance among pathogenic microbes and strategies to combat multi drug resistance MDR

Biomass for Bioenergy and Biomaterials Nidhi Adlakha,Rakesh Bhatnagar,Syed Shams Yazdani,2021-10-21 Biomass for Bioenergy and Biomaterials presents an overview of recent studies developed specifically for lignocellulose based production of biofuels biochemicals and functional materials The emphasis is on using sustainable chemistry and engineering to develop innovative materials and fuels for practical applications Technological strategies for the physical processing or biological conversion of biomass for material production are also presented FEATURES Offers a comprehensive view of biomass processing biofuel production life cycle assessment techno economic analysis and biochemical and biomaterial production Presents details of innovative strategies to pretreat biomass Helps readers understand the underlying metabolic pathways and identify the best engineering strategies for their native strain Highlights different strategies to make biomaterials from biomass Provides insight into the potential economic viability

of the biomass based process This book serves as an ideal reference for academic researchers and engineers working with renewable natural materials the biorefining of lignocellulose and biofuels It can also be used as a comprehensive reference source for university students in metabolic chemical and environmental engineering **Green Chemistry** Vinod K. Tiwari,Abhijeet Kumar,Sanchayita Rajkhowa,Garima Tripathi,Anil Kumar Singh,2022-09-02 This book summarizes fundamentals and advanced topics of green chemistry and highlights the importance and impact of green chemistry over traditional synthetic methods It discusses about the importance and scope of the catalytic protocols in green chemistry and their application in daily life Alternate green energy approaches discussed in this book underline the importance of efficiency enhancement with simultaneous energy demand reduction by replacing the dependence on non renewable energy resources Various topics covered in this book include green solvents energy efficient approach for organic synthesis catalysis biocatalysis and green approach in pharmaceutically important molecules and drugs The book will be a valuable reference for beginners researchers and professionals interested in sustainable green chemistry and their scope in allied fields

Biotechnology of Microbial Enzymes Goutam Brahmachari,Arnold L Demain,Jose L Adrio,2016-07-21 Biotechnology of Microbial Enzymes Production Biocatalysis and Industrial Applications provides a complete survey of the latest innovations on microbial enzymes highlighting biotechnological advances in their production and purification along with information on successful applications as biocatalysts in several chemical and industrial processes under mild and green conditions Applications of microbial enzymes in food feed and pharmaceutical industries are given particular emphasis The application of recombinant DNA technology within industrial fermentation and the production of enzymes over the last 20 years have produced a host of useful chemical and biochemical substances The power of these technologies results in novel transformations better enzymes a wide variety of applications and the unprecedented development of biocatalysts through the ongoing integration of molecular biology methodology all of which is covered insightfully and in depth within the book Features research on microbial enzymes from basic science through application in multiple industry sectors for a comprehensive approach Includes information on metabolic pathway engineering metagenomic screening microbial genomes extremophiles rational design directed evolution and more Provides a holistic approach to the research of microbial enzymes

The Origin of Plant Chemodiversity - Conceptual and Empirical Insights Kazuki Saito,2020-08-06 **Emerging Technologies for Biorefineries, Biofuels, and Value-Added Commodities** Zhi-Hua Liu,Art Ragauskas,2021-04-30 This book provides in depth coverage on the latest concepts systems and technologies that are being utilized in biorefineries for the production of biofuels and value added commodities Written by internationally recognized experts the book provides a comprehensive overview of pretreatment technology for biorefineries and biofuels enzymatic hydrolysis and fermentation technology for biofuel production and lignin valorization for developing new products from waste lignin The book will be a valuable resource for researchers and professionals working in process engineering product engineering material science

and systems and synthetic biology in the fields of biorefining biofuel biomaterials environmental waste utilization and biotechnology

Science of Synthesis: Biocatalysis in Organic Synthesis Vol. 2 Kurt Faber, Wolf-Dieter Fessner, Nicholas J. Turner, 2015-03-11 The three Science of Synthesis volumes on Biocatalysis in Organic Synthesis present a broad contemporary overview on the state of the art in enzymatic methods for asymmetric synthesis suitable for academics and industrial researchers working in the field of organic synthesis The goal is to start a new wave of enthusiasm for biocatalysis in the broader community and to give an overview of the field Biocatalysis in Organic Synthesis offers critical reviews of organic transformations by experts including experimental procedures The organization is based on the type of reaction performed under biocatalysis Volume 2 covers reactions involving the formation of C C bonds Addition of carbon nucleophiles at C O and C N double bonds are reviewed as are methods for the formation of C C bonds at arenes and additions to C C double bonds Other chapters present transamination and reductive amination reactions reduction of carbonyl compounds and the uses of epoxides in biocatalysis

Homogeneous Hydrogenation with Non-Precious Catalysts Johannes F. Teichert, 2019-11-14 A guide and comprehensive review of the most recent advances in homogeneous hydrogenation with non precious catalysts In recent years a great deal of research has been applied to homogeneous hydrogenation with non precious catalysts Homogeneous Hydrogenation with Non Precious Catalysts offers a review of the latest developments and advances in the field In addition the book explores the transition metal catalysis and the concept of frustrated lewis pair FLP and enzymatic processes The editor a noted expert on the topic discusses the various catalysts and puts the focus on the synthetic vantage point highlighting the functional group transformation enabled by the respective catalyst Homogeneous Hydrogenation with Non Precious Catalysts also presents the industrial view of the topic and includes an overview of the various catalysts by functional group transformations This important book Offers a comprehensive presentation of the newest development in this emerging field Highlights the transition metal catalysis the frustrated lewis pair FLP concept and enzymatic processes Provides an industrial perspective of the topic Includes an overview of the various catalysis by functional group transformations Written for organic chemists researchers in synthetic chemistry and industry professionals Homogeneous Hydrogenation with Non Precious Catalysts offers a comprehensive and accessible guide to the most recent advances in the field COPY_WEB_CATALOG

Science of Synthesis: Biocatalysis in Organic Synthesis Vol. 1 Kurt Faber, Wolf-Dieter Fessner, Nicholas J. Turner, 2015-03-11 The three Science of Synthesis volumes on Biocatalysis in Organic Synthesis present a broad contemporary overview on the state of the art in enzymatic methods for asymmetric synthesis suitable for academics and industrial researchers working in the field of organic synthesis The goal is to start a new wave of enthusiasm for biocatalysis in the broader community and to give an overview of the field Biocatalysis in Organic Synthesis offers critical reviews of organic transformations by experts including experimental procedures The organization is based on the type of reaction performed under biocatalysis Volume 1 begins with chapters discussing the historical

development of the field sources of enzymes and appropriate selection of catalysts and general strategies employed in biocatalysis This is followed by reviews of the biocatalytic hydrolysis of various substrates The volume concludes with chapters devoted to biocatalytic isomerizations and the synthesis of glycosides *Science of Synthesis: Biocatalysis in Organic Synthesis Vol. 3* Kurt Faber, Wolf-Dieter Fessner, Nicholas J. Turner, 2015-03-11 The three Science of Synthesis volumes on Biocatalysis in Organic Synthesis present a broad contemporary overview on the state of the art in enzymatic methods for asymmetric synthesis suitable for academics and industrial researchers working in the field of organic synthesis The goal is to start a new wave of enthusiasm for biocatalysis in the broader community and to give an overview of the field Biocatalysis in Organic Synthesis offers critical reviews of organic transformations by experts including experimental procedures The organization is based on the type of reaction performed under biocatalysis Volume 3 begins with oxidation A chapter on enzyme catalyzed dihydroxylation is followed by reviews of alkane oxidation Oxidations of alcohols carbonyl compounds and heteroatoms are covered as are halogenations The use of biocatalysts in total synthesis cascade reactions and large scale industrial applications is considered Finally emerging trends are discussed **Advanced Chemical Biology** Howard C. Hang, Matthew R. Pratt, Jennifer A. Prescher, 2023-02-06 Advanced Chemical Biology The modern approach to teaching chemical biology Advanced Chemical Biology is organized around the central dogma of life progressing from genes to proteins and higher order cellular structures including core application areas such as imaging chemical genetics activity based protein profiling and natural product discovery and biosynthesis Advanced topics and applications in e g microbiology developmental biology and neurobiology are covered in separate sections Every chapter is homogeneous in style and layout consisting of a short historical introduction followed by a description of the underlying concepts and a selection of recent examples of how the concept has been turned into practice The subdivision of the contents into core and supplemental chapters enables a flexible use in teaching both for a one semester and a two semester course Written by authors and editors coming from the leading scientific institutions that have developed the concepts and technologies for this discipline Advanced Chemical Biology includes specific information on topics like DNA function synthesis and engineering chemical approaches to genome integrity and RNA function synthesis and probing Chemical approaches to transcription and RNA regulation in vivo chemical biology of genome engineering and peptide protein synthesis and engineering Directed evolution for chemical biology chemical biology of cellular metabolism chemical biology of lipids and protein post translational modifications Chemical glycobiology chemical and enzymatic modification of proteins genetic code expansion bio orthogonal chemistry and cellular imaging With its broad scope and focus on turning concepts into applications Advanced Chemical Biology is an excellent starting point for anyone entering the field and looking for a guide to the wide range of available methods and strategies that chemical biology has to offer With a Foreword by Nobel Laureate Carolyn Bertozzi *Biocatalysis in Asymmetric Synthesis* Gonzalo De Gonzalo, Andrés R. Alcántara, 2024-05-04 Biocatalysis in Asymmetric Synthesis a new

volume in the Foundations and Frontiers of Enzymology series offers an applied discussion of synthesizing biological catalysts using asymmetric synthesis for applications across research and industry Here global experts in the field analyze a wide variety of biocatalysts and their physical states process conditions for their asymmetric synthesis solvents required during synthesis and even downstream procedures for the recovery of final products The book adopts an interdisciplinary approach merging fundamental biology and its synthetic applications across industries with a wide range of practical examples from directed evolution to biotransformation and production of novel enzymes and non conventional catalysts Throughout the book the impact and application of biocatalysis in sustainable processing is considered in depth This book will also help non experts in biocatalysis to apply this knowledge in their own research providing a thorough overview of the ways asymmetric biocatalytic approaches may be adapted for different disciplines and downstream products Explores biocatalysts as exquisite catalysts for fine chiral compound synthesis in different reaction media Features both foundational overviews and applied practical examples across research and industry Includes chapter contributions from international leaders in the field

Process Intensification in Chemical Engineering Juan Gabriel Segovia-Hernández, Adrián Bonilla-Petriciolet, 2016-04-02 This book will provide researchers and graduate students with an overview of the recent developments and applications of process intensification in chemical engineering It will also allow the readers to apply the available intensification techniques to their processes and specific problems The content of this book can be readily adopted as part of special courses on process control design optimization and modelling aimed at senior undergraduate and graduate students This book will be a useful resource for researchers in process system engineering as well as for practitioners interested in applying process intensification approaches to real life problems in chemical engineering and related areas

Thermochemical and Catalytic Conversion Technologies for Future Biorefineries Pradeep Verma, 2022-09-01 This book will attempt to provide an account of knowledge on biomass available for biomass based biorefineries Its focuses on understanding the recalcitrance of biomass and how it limits the overall conversion efficiency It also gives an insight what are different conventional approaches available for pretreatment and hydrolysis of the biomass The chapters deals with highlights how enzymes can be a powerhouse and play pioneering roles in biomass valorization The book will also throw light on how technical aspects of thermochemical conversion strategies such as pyrolysis gasification organosolv methods for the generation of value added materials such as high quality bio oil biochars and biobased chemicals These high value compounds can be put to widespread application in biofuel biocatalyst waste bioremediation heavy metal removal air purification and effluent treatment applications The book will provide literature on the limitations of already existing technologies and provide prospects of each technology This book is of interest to teachers researchers bioenergy scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of energy studies chemical engineering biotechnology and environmental sciences National and international

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