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Industrial Biocatalysis

names by Peter Grunnwald





<u>Industrial Biocatalysis Pan Stanford Series On</u> <u>Biocatalysis</u>

Michele Aresta, Angela Dibenedetto, Franck Dumeignil

Industrial Biocatalysis Peter Grunwald, 2014-12-11 Biocatalysis has become an essential tool in the chemical industry and is the core of industrial biotechnology also known as white biotechnology making use of biocatalysts in terms of enzymes or whole cells in chemical processes as an alternative to chemical catalysts This shift can be seen in the many areas of daily life where biocatalysts with Biocatalysis: Biochemical Fundamentals And Applications (Second Edition) Peter Grunwald, 2017-08-04 In this Completely Revised and Extended Edition with a significantly enhanced content all Chapters have been updated considering relevant literature and recent developments until 2016 together with application oriented examples with a focus on Industrial Biocatalysis Newly treated topics comprise among others systems metabolic engineering approaches metagenome screening new tools for pathway engineering and de novo computational design as actual research areas in biocatalysis Information about different aspects of RNA technologies and completely new Chapters on Fluorescent Proteins and Biocatalysis and Nanotechnology are also included **Biocatalysis and Nanotechnology** Peter Grunwald, 2017-10-25 Nanobiocatalysis has rapidly developed into a subarea of enzyme biotechnology. It combines the advances in nanotechnology that have generated nanoscale materials of different sizes shapes and physicochemical properties and the excellent characteristics of biocatalysts into an innovative technology This book provides an overview of the various relations between nanotechnology and biocatalysis It discusses the fabrication and application of nanomaterials for the immobilization of enzymes used in the sustainable production of goods and chemicals Nanosupports have several advantages compared with bulk solid materials because of their high surface area which results in a significantly reduced mass transfer limitation and comparatively high enzyme loading These characteristics are also of great use for applications in the fields of enzymatic biosensors biofuel cells bioelectronics and photoelectrochemical analyte detection where conductive nanomaterials improve the rate of electron transfer The book also presents an overview of nanotoxicology and covers nanostructured enzyme catalysis in organic solvents and its potential application for biodiesel production probing of enzymatic activity and identification of enzyme functions of inorganic nanoparticles as enzyme mimics 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 Immobilized Biocatalysts Peter Grunwald, 2018-11-14 This book is a printed edition of the Special Issue Immobilized Biocatalysts that was published in Catalysts Chemistry for Sustainable Technologies Neil Winterton, 2021-02-04 Following the success of the first edition this fully updated and revised book

continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology Its prime objective is to equip young chemists and others to more fully to appreciate defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control manage and ameliorate its impact on the ecosphere To do this it is necessary to set the ideas concepts achievements and challenges of chemistry and its application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists

Pharmaceutical Biocatalysis Peter Grunwald, 2019-11-07 This volume provides an insight into the future strategies for commercial biocatalysis with a focus on sustainable technologies together with chemoenzymatic and biotechnological approaches to synthesize various types of approved and new active pharmaceutical ingredients APIs via proven and latest synthetic routes using single step biocatalytic or enzyme cascade reactions Many of these drugs act as enzyme inhibitors as discussed in a chapter with a variety of examples The targeted enzymes are involved in diseases such as different cancers metastatic and infectious diseases osteoporosis and cardiovascular disorders The biocatalysts employed for API synthesis include hydrolytic enzymes alcohol dehydrogenases laccases imine reductases reductive aminases peroxygenases cytochrome P450 enzymes polyketide synthases transaminases and halogenases Many of them have been improved with respect to their properties by engineering methods The book discusses the syntheses of drugs including alkaloids and antibiotics non ribosomal peptides antimalarial and antidiabetic drugs prenylated xanthones antioxidants and many important chiral intermediates required for the synthesis of pharmaceuticals Enzyme or Whole Cell Immobilization for Efficient Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques Wen-Yong Lou, Jun Ge, Changzhu Wu, Jesús Fernández Lucas, 2021-04-21 Handbook of Carbohydrate-Modifying Biocatalysts Peter Grunwald, 2016-11-25 This book provides an actual overview of the structure function and application of carbohydrate modifying biocatalysts Carbohydrates have been disregarded for a long time by the scientific community mainly due to their complex structure Meanwhile the situation changed with increasing knowledge about the key role carbohydrates play in biological processes such as recognition signal transduction immune responses and others An outcome of research activities in glycoscience is the development of several new pharmaceuticals against serious diseases such as malaria cancer and

various storage diseases Furthermore the employment of carbohydrate modifying biocatalysts enzymes as well as microorganisms will contribute significantly to the development of environmentally friendly processes boosting a shift of the chemical industry from petroleum to bio based production of chemicals from renewable resources. The updated content of the second edition of this book has been extended by discussing the current state of the art of using recombinantly expressed carbohydrate modifying biocatalysts and the synthesis of minicellulosomes in connection with consolidated bioprocessing of lignocellulosic material Furthermore a synthetic biology approach for using DAHP dependent aldolases to catalyze asymmetric aldol reactions is presented Biotransformations in Organic Chemistry Kurt Faber, 2017-11-26 This well established textbook on biocatalysis provides a basis for undergraduate and graduate courses in modern organic chemistry as well as a condensed introduction into this field After a basic introduction into the use of biocatalysts principles of stereoselective transformations enzyme properties and kinetics the different types of reactions are explained according to the reaction principle such as hydrolysis reduction oxidation C C bond formation etc Special techniques such as the use of enzymes in organic solvents immobilization techniques artificial enzymes and the design of cascade reactions are treated in a separate section A final chapter deals with the basic rules for the safe and practical handling of biocatalysts The use of biocatalysts employed either as isolated enzymes or whole microbial cells offers a remarkable arsenal of highly selective transformations for state of the art synthetic organic chemistry. Over the last two decades this methodology has become an indispensable tool for asymmetric synthesis not only at the academic level but also on an industrial scale In this 7th edition new topics have been introduced which include alcohol and amine oxidases amine dehydrogenases imine reductases haloalkane dehalogenases ATP independent phosphorylation Michael additions and cascade reactions This new edition also emphasizes the use of enzymes in industrial biotransformations with practical examples Introduction to Enzyme Technology Karl-Erich Jaeger, Andreas Liese, Christoph Syldatk, 2024-03-21 This interdisciplinary textbook provides an easy to understand and highly topical introduction to all the specialist areas of modern enzyme technology. In the first part of this three part textbook the reader is introduced to the fundamentals of enzyme structure reaction mechanisms enzyme kinetics enzyme modeling and process control In the second part methods for finding expressing optimizing purifying immobilizing and using enzymes in unusual reaction media are presented In the third part leading experts use examples to describe current applications of enzymes in the chemical and pharmaceutical industries for biomass degradation food production and processing as additives in detergents and cleaning agents for constructing biosensors and as therapeutics Students of bachelor and master programs in biology chemistry biochemistry and bioprocess engineering will gain up to date access to practical applications and developing industries However the fluent writing style makes the work suitable for all readers who want to gain an easy to understand insight into the production and application of enzymes This book is a translation of an original German edition The translation was done with the help of artificial intelligence machine translation by the service

DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically Effects of Nanoconfinement on Catalysis Rinaldo Poli,2017-01-24 This book differently from a conventional translation highlights the recent advances and state of the art in the use of functionalized nanostructured environments on catalysis Nanoconfinements considered include well defined molecular cages imprinted self assembled supramolecules polymers made by living or controlled polymerization metallorganic frameworks carbon nanotubes mesoporous inorganic solids and hybrids thereof Advantages of nanoconfinement of catalysts discussed include higher activities improved selectivities catalyst stabilization cooperativity effects simplified protocols for cascade syntheses better catalyst recovery and recyclability The multiple applications that these materials offer are revolutionizing industrial sectors such as energy electronics sensors biomedicine and separation technology **Enzymatic Plastic Degradation**, 2021-02-10 Enzymatic Plastic Degradation Volume 648 in the Methods in Enzymology series continues the legacy of this premier serial with chapters authored by leaders in the field Chapters in this latest release include Evaluating plastic pollution and environmental degradation Assessment methods for microplastic pollution in the oceans and fresh water Exploring microbial consortia from various environments for plastic degradation Characterization of filamentous fungi for attack on synthetic polymers via biological Fenton chemistry Synthesis of radioactive labeled nanoplastics for assaying the environmental microbial PS degradation Exploring metagenome for plastic degrading enzymes Cutinases from thermophilic bacteria actinomycetes from identification to functional and structural characterization and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Covers the latest research and technologies in enzymatic plastic degradation Direct Natural Gas Conversion to Value-Added Chemicals Jianli Hu, Dushyant Shekhawat, 2020-09-25 Direct Natural Gas Conversion to Value Added Chemicals comprehensively discusses all major aspects of natural gas conversion and introduces a broad spectrum of recent technological developments Specifically the book describes heterogeneous and homogeneous catalysis microwave assisted conversion non thermal plasma conversion electrochemical conversion and novel chemical looping conversion approaches Provides an excellent benchmark resource for the industry and academics Appeals to experienced researchers as well as newcomers to the field despite the variety of contributing authors and the complexity of the material covered Includes all aspects of direct natural gas conversion fundamental chemistry different routes of conversion catalysts catalyst deactivation reaction engineering novel conversion concepts thermodynamics heat and mass transfer issues system design and recent research and development Discusses new developments in natural gas conversion and future challenges and opportunities This book is as an excellent resource for advanced students technology developers and researchers in chemical engineering industrial chemistry and others interested in the conversion of natural gas Biorefinery: From Biomass to Chemicals and Fuels Michele Aresta, Angela Dibenedetto, Franck Dumeignil, 2021-12-20 This updated edition presents topical knowledge and

technologies for the thermal chemo and enzymatic catalytic conversion of biomass into chemicals materials and fuels International experts from academia and industry cover the complete value chain from raw materials into final products A Extremozymes and their new focus discusses feedstock processes and products in potential concepts of future biorefining Industrial Applications Naveen Kumar Arora, Shekhar Agnihotri, Jitendra Mishra, 2022-06-15 Extremophiles belong to members of all three domains of life i e bacteria archaea and eukarya However a high proportion of extremophiles are archaea and bacteria These microbes live under chemical and physical extremes that are usually lethal to cellular molecules yet they not only manage to survive but even thrive in such conditions Extremophiles have important practical and industrial uses They are a valuable source of industrially important enzymes also known as extremozymes Recent research has revealed that extremozymes have unique structural features essential for biocatalysis under extreme conditions Extremozymes have great commercial values and are known for their potential use in biotechnology biomining and bioremediation Extremozymes and their Industrial Applications highlights the current and topical areas of research in this rapidly growing field of extremophiles and their applications Expert researchers from around the globe are trying to uncover the underlying mechanisms responsible for their specific adaptations under extreme environments. The topics covered include the ability of acidophiles to maintain a neutral intracellular pH the way psychrophiles loosen up their proteins at low temperatures and other equally ingenious adaptations and metabolic strategies that extremophiles use to survive and flourish under extreme conditions Extremozymes and their Industrial Applications also covers the established biotechnological uses of extremophiles and the most recent and novel applications including their exploitation for enzyme production Potential use of extremophiles and their enzymes in the generation of sustainable energy biomass conversion agro waste processing and biocontrol of phytopathogens is also covered The book will be very useful for researchers and students working in the area of industrial microbiology and biotechnology and microbial ecologists It is also recommended reference text for those interested in the biochemistry and microbiology of extremophiles as well as for those interested in bioprospecting biomining biofuels and biodegradation Presents information exclusively based on extremozymes and their application in industries Chapters have been collected from various experts and deals with contemporary issues related to extremozymes and their usability in various industries Enriched with suitable illustrations that assist in increasing readership and broaden the reach of the book Biorefineries Michele Aresta, Angela Dibenedetto, Franck Dumeignil, 2015-08-31 amongst scholars and academicians Biorefineries compiles the basic science and technologies used to convert terrestrial and aquatic biomass into essential molecular compounds and polymeric materials The book provides in depth insights into this fairly recent concept of industrial chemistry that aims to achieve optimal economic profits while minimizing the environmental impact Chapters written by renowned experts cover amongst others the application of catalysis downstream processing biomass sourced olefins lignin biorefinery techniques and biogas The authors thoroughly examine and explain the value chain for biomass conversion into

platform molecules and their transformation into final products A comprehensive thematic overview on the topic giving beginners access to fundamental concepts is presented Supplemented by numerous full color figures and tables the contents impart knowledge about the involved techniques Advanced students and experts in the field will find the summary of state of the art research and current literature of valuable interest Explores the enormous potential of biomass conversion as a future source for fuels and chemicals Focuses on both general scientific background and current innovations in the field of biorefinery Targets students and researchers in Chemistry Chemical Engineering Biotechnology and Materials Science About the Editors Prof Michele Aresta Chair of the Scientific Committee of CIRCC in Italy and holds the IMM Chair at the Department of Chemical and Biomolecular Engineering at NUS Singapore He is author of over 200 papers and Author or Editor of nine books Prof Angela Dibenedetto Associate Professor at the Department of Chemistry of the University of Bari Italy focused on carbon dioxide utilization by applying biorefinery concepts and Director of the Interuniversity Consortium on Chemical Reactivity and Catalysis CIRCC Prof Franck Dumeignil Deputy Director of the CNRS joint Unit of Catalysis and Chemistry of Solid UCCS of Lille University France project coordinator of several projects on chemistry including the EuroBioRef Project for designing next generation biorefineries **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 Recent Trends in Lianocellulosic Biofuels and Bioenergy Mudasir A. Dar, Hossain M. Zabed, Mohd Shahnawaz, 2025-06-10 This book offers a comprehensive exploration of recent trends in lignocellulosic biofuels focusing on advancements and sustainability assessments Edited by leading experts it provides an in depth analysis of biofuel production from lignocellulosic biomass highlighting the latest technological innovations and their environmental impacts The chapters cover a range of critical topics including the life cycle assessment of biofuels the socio economic implications of bioenergy and the integration of artificial intelligence in

biofuel production The chapters delve into the environmental energetic and economic perspectives of biofuels as sustainable alternatives to fossil fuels Readers will gain insights into the challenges and solutions for biofuel production including the role of machine learning and global policy frameworks This volume is essential for researchers professionals and students in the biofuels sector It offers valuable perspectives on the future of bioenergy making it a must read for anyone interested in sustainable energy solutions Whether you re a policymaker academic or industry professional this book provides the knowledge and tools needed to navigate the evolving landscape of biofuels and bioenergy <u>Biosurfactants: New Insights in their Biosynthesis, Production and Applications</u> Gloria Soberón-Chávez, Rudolf Hausmann, Eric Déziel, 2022-01-24

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