

Pan Stanford Series
on Biocatalysis
Volume 1

Industrial Biocatalysis

edited by Peter Grunwald



Industrial Biocatalysis Pan Stanford Series On Biocatalysis

Peter Grunwald



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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 *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 *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, 2019-06-27 This book provides an overview of the world market of therapeutic enzymes and enzyme inhibitors rare diseases orphan drugs the costs of drug development and therapies and enzymes in downstream processing of pharmaceuticals It discusses carbonic anhydrase inhibitors and their multiple drug interactions carboxylesterase inhibitors for pharmaceutical applications employment of inhibitors for the treatment of neurodegenerative diseases use of engineered proteins bioactive peptides and fibrinolytic enzymes for thrombolytic therapy and enzymes important for the design and development of new drugs drug metabolites such as aldehyde oxidases and cytochrome P450 enzymes and the role the latter play in vascular biology and pathophysiology The treatment of cancer is explored in connection with enzymatic amino acid deprivation therapies and new drugs that act as chemical degraders of oncogenic proteins The book also introduces the resistance mechanisms of cancer Furthermore it provides an insight into the relationship between pathological conditions of cardiovascular disease and oxidative stress The text also focuses on the potential use of nanoparticles as carriers for enzymes with medical relevance computer aided drug design for the identification of multi target directed ligands and the development of improved therapeutics through a glycan designer approach It concludes with an introduction to the chemoenzymatic synthesis of drugs

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

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 differently from a conventional translation

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