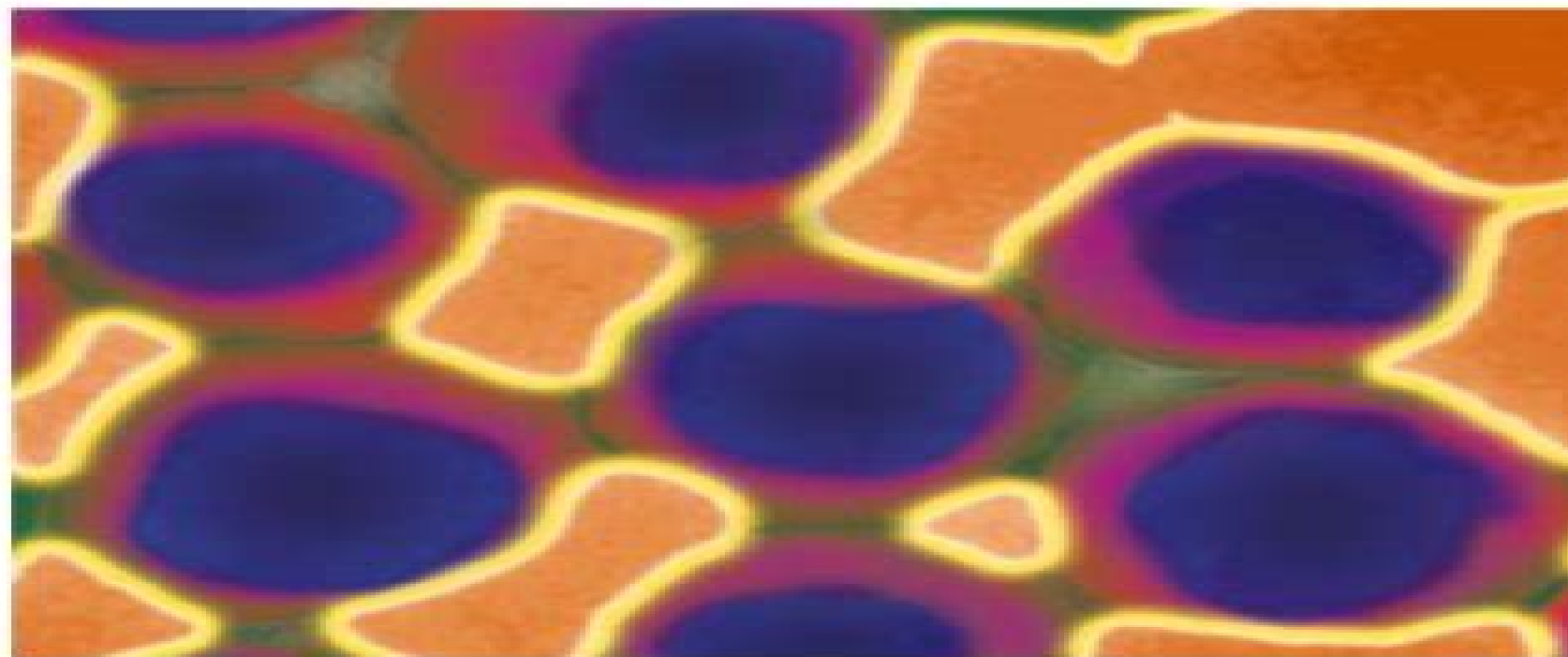


Edited by Adriano Zecchina,
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Selective Nanocatalysts and Nanoscience

Concepts for Heterogeneous
and Homogeneous Catalysis



Selective Nanocatalysts And Nanoscience Concepts For Heterogeneous And Homogeneous Catalysis

**Adriano Zecchina, Silvia Bordiga, Elena
Groppo**



Selective Nanocatalysts And Nanoscience Concepts For Heterogeneous And Homogeneous Catalysis:

Selective Nanocatalysts and Nanoscience Adriano Zecchina, Silvia Bordiga, Elena Groppo, 2011-08-15 Filling a gap in the catalysis and nano literature this monograph is unique in focusing on both nanostructured heterogeneous and homogeneous catalysis As such it describes a selection of heterogeneous catalysts in use showing that the dimension of the relevant portions of the catalysts are always in the 1 100 nm range and so may be properly understood as nanomachines for the chemical manipulation of molecules to perform high precision selective synthesis The prominent international authors then go on to show that the concept of nanoscience can be equally applied to artificial homogeneous catalysts whose active sites are generally considered as single sites having a molecular dimension The result is an excellent overview of such hot topics as nanoparticles MOFs and more making this indispensable reading for catalytic and organic chemists as well as those working on organometallics

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Nanotechnology in Catalysis Bert Sels, Marcel Van de Voorde, 2017-06-21 Reflecting the R D efforts in the field that have resulted in a plethora of novel applications over the past decade this handbook gives a comprehensive overview of the tangible benefits of nanotechnology in catalysis By bridging fundamental research and industrial development it provides a unique perspective on this scientifically and economically important field While the first three parts are devoted to preparation and characterization of nanocatalysts the final three provide in depth insights into their applications in the fine chemicals industry the energy industry and for environmental protection with expert authors reporting on real life applications that are on the brink of commercialization Timely reading for catalytic chemists materials scientists chemists in industry and process engineers

Nanotechnology in Catalysis, 3 Volumes Bert F. Sels, Marcel Van de Voorde, 2017-10-16 Dieses Handbuch pr sentiert die in den letzten zehn Jahren entstandenen neuen Anwendungsbereiche und gibt einen umfassenden berblick ber dieses wissenschaftlich und konomisch wichtige Gebiet Einzigartig ist die Verbindung von Grundlagenforschung und industrieller Entwicklung Applied

Homogeneous Catalysis Arno Behr, Peter Neubert, 2012-04-16 Auf fortgeschrittenem Niveau und mit didaktischem Anspruch bietet Ihnen dieser Band zahlreiche Fragen mit Antworten und eine breite Palette von Fallstudien aus der Industrie erg nzt

durch weiterführende Literaturhinweise und Referenzen der Originalliteratur. Insbesondere geht es um die modernsten katalytischen Prozesse mit ihren Anwendungen in der Pharmazie und der Feinchemikalien-Industrie, wobei auch kommerzielle Aspekte besprochen werden. Der Autor, ein erfahrener Dozent mit Industriepraxis, legt Chemikern und Chemieingenieuren damit ein praxistaugliches Hilfsmittel vor.

Heterogeneous Catalysts for Clean Technology Karen Wilson, Adam F. Lee, 2013-09-17

Reactive but not a reactant: Heterogeneous catalysts play an unseen role in many of today's processes and products. With the increasing emphasis on sustainability in both products and processes, this handbook is the first to combine the hot topics of heterogeneous catalysis and clean technology. It focuses on the development of heterogeneous catalysts for use in clean chemical synthesis, dealing with how modern spectroscopic techniques can aid the design of catalysts for use in liquid phase reactions, their application in industrially important chemistries including selective oxidation, hydrogenation, solid acid and base catalyzed processes, as well as the role of process intensification and use of renewable resources in improving the sustainability of chemical processes. With its emphasis on applications, this book is of high interest to those working in the industry.

Nanomaterials in Catalysis Philippe Serp, Karine Philippot, 2012-11-15

Nanocatalysis has emerged as a field at the interface between homogeneous and heterogeneous catalysis and offers unique solutions to the demanding requirements for catalyst improvement. Heterogeneous catalysis represents one of the oldest commercial applications of nanoscience, and nanoparticles of metals, semiconductors, oxides, and other compounds have been widely used for important chemical reactions. The main focus of this field is the development of well-defined catalysts which may include both metal nanoparticles and a nanomaterial as the support. These nanocatalysts should display the benefits of both homogeneous and heterogeneous catalysts, such as high efficiency and selectivity, stability, and easy recovery/recycling. The concept of nanocatalysis is outlined in this book, and in particular, it provides a comprehensive overview of the science of colloidal nanoparticles. A broad range of topics from the fundamentals to applications in catalysis are covered without excluding micelles, nanoparticles in ionic liquids, dendrimers, nanotubes, and nanooxides, as well as modeling and the characterization of nanocatalysts, making it an indispensable reference for both researchers at universities and professionals in industry.

The Development of Catalysis Adriano Zecchina, Salvatore Califano, 2017-02-27

This book gradually brings the reader through illustrations of the most crucial discoveries into the modern world of chemical catalysis. Readers and experts will better understand the enormous influence that catalysis has given to the development of modern societies. Highlights the field's onset up to its modern days, covering the life and achievements of luminaries of the catalytic era. Appeals to a general audience in interpretation and analysis but preserves the precision and clarity of a scientific approach. Fills the gap in publications that cover the history of specific catalytic processes.

Organic Nanoreactors Samahe Sadjadi, 2016-03-28

Organic Nanoreactors: From Molecular to Supramolecular Organic Compounds provides a unique overview of synthetic porous organic compounds containing a cavity which can encapsulate one or more guests. Confined

space within a nanoreactor can isolate the guest s from the bulk and effectively influence the reaction inside the nanoreactor Naturally occurring enzymes are compelling catalysts for selective reactions as their three dimensional structures build up clefts caves or niches in which the active site is located Additionally reactive sites carrying special functional groups allow only specific reagents to react in a particular way to lead to specific enantiomers as products Equipped with suitable functional groups then nanoreactors form a new class of biomimetic compounds which have multiple important applications in the synthesis of nanomaterials catalysis enzyme immobilization enzyme therapy and more This book addresses various synthetic organic nanoreactors updating the previous decade of research and examining recent advances in the topic for the first comprehensive overview of this exciting group of compounds and their practical applications Bringing in the Editor s experience in both academic research and industrial applications Organic Nanoreactors focuses on the properties and applications of well known as well as little examined nanoreactor compounds and materials and includes brief overviews of synthetic routes and characterization methods Focuses on organic nanoreactor compounds for greater depth Covers the molecular supramolecular and macromolecular perspectives Compiles previous and current sources from this growing field in one unique reference Provides brief overviews of synthetic routes and characterization methods [Microreactors in Organic Chemistry and Catalysis](#) Thomas Wirth, 2013-02-22 For the second edition of Microreactors in Organic Chemistry and Catalysis all chapters have been revised and updated to reflect the latest developments in this rapidly developing field This new edition has 60% more content and it remains a comprehensive publication covering most aspects of the topic The use of microreactors in homogeneous heterogeneous as well as biphasic reactions is covered in the main part of the book together with catalytic bioorganic and automation approaches The initial chapters also provide a solid physical chemistry background on fluidics in microdevices Finally a chapter on industrial applications and developments covers recent progress in process chemistry An excellent reference for beginners and experts alike

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