

Dmhd 100

National Academy of Sciences (U.S.)

Metal Organic Frameworks as Heterogeneous Catalysts Francesc X. Llabrés i Xamena, Jorge Gascon (Profesor), 2013-07-01 Catalysis has always been part of the development of mankind; from the fermentation of alcoholic drinks, through the development of fertilisers in the agricultural revolution and production of bulk chemicals in the 20th Century. Today, society demands improved production routes with greater product output and energy efficiency; the ultimate goal to achieving this would be having all catalytic reactions in concert, effectively functioning like a biological cell. Metal organic frameworks (MOFs) are a relatively new type of hybrid material. Their crystalline porous structure, built up from organic and inorganic building blocks, presents a vast array of composition, porosity and functionality offering enormous potential in catalytic systems. This book examines the latest research and discovery in the use of MOFs in catalysis, highlighting the extent to which these materials have been embraced by the community. Beyond presenting a digest of recent research by major players in the field, the book presents the strategies behind recent developments, providing a lasting reference for seasoned researchers and newcomers to the field.

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 guest(s). 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

Autoxidation of Hydrocarbons and Polyolefins Leo Reich, Salvatore S. Stivala, 1969

Solubility in Supercritical Carbon Dioxide Ram B. Gupta, Jae-Jin Shim, 2006-12-06 Supercritical fluid extraction is an environmentally safe and cost-effective alternative to traditional organic solvents. Carbon dioxide is widely used as the solvent of choice for applications such as caffeine and nicotine extraction due to its mild critical temperature, nontoxicity, nonflammability, and low cost. Introducing the most complete collection of supercritical CO₂ solubility data currently available, Solubility in Supercritical Carbon Dioxide features experimental data on more than 780 solutes in consistent units and an easily accessible format. This book reflects the authors' painstaking efforts to compile solubility data for an extensive variety of compounds including liquids, solids, polymers, foods, drugs, nutraceuticals, pesticides, dyes, and metal complexes. Each of the more than 1200 tables is arranged in alphabetical order by compound, includes a graphical plot of its data, and features the following information: Compound name, molecular formula, and molecular weight Temperature and pressure given in Kelvin and bar, respectively Name and amount of cosolvent, if applicable Molar or mass solubility, when applicable Mole- or mass-fraction solubility Synonyms for the compound, where available Reference source for the data Density data for CO₂ appears in one appendix, while a complete list of solutes by molecular formula appears in the other. Clear, consistent, and carefully organized, Solubility in Supercritical Carbon Dioxide is the most convenient quick-lookup guide for reliable data.

China's Second Capital - Nanjing under the Ming, 1368-1644 Jun Fang, 2014-05-23 This book is a study of the dual capital system of Ming dynasty China (1368-1644), with a focus on the administrative functions of the auxiliary Southern Capital, Nanjing. It argues that the immense geographical expanse of the Chinese empire and the poor communication infrastructure of pre-modern times necessitated the establishment of an additional capital administration for effective control of the Ming realm. The existence of the Southern Capital, which has been dismissed by scholars as redundant and insignificant, was, the author argues, justified by its ability to assist the primary Northern Capital better control the southern part of the imperial land. The practice of maintaining auxiliary capitals, where the bureaucratic structures of the primary capital were replicated in varying degrees, was a unique and valuable approach to effecting bureaucratic control over vast territory in pre-modern conditions. Nanjing translates into English as Southern Capital and Beijing as Northern Capital.

Green Sustainable Processes for Chemical and Environmental Engineering and Science Abdullah M. Asiri, Inamuddin, Arun M. Isloor, 2019-10 Green Sustainable Processes for Chemical and Environmental Engineering and Science: Supercritical Carbon Dioxide as Green Solvent provides an in-depth review on the area of green processes for the industry, focusing on the separation, purification and extraction of medicinal, biological and bioactive compounds utilizing supercritical carbon dioxide as a green solvent and their applications in pharmaceuticals, polymers, leather, paper, water filtration, textiles and more. Chapters explore polymerization, polymer composite production, polymer blending, particle production, microcellular foaming, polymer processing using supercritical carbon dioxide, and a method for the production of micro- and nano-scale particles using supercritical carbon dioxide that focuses on the pharmaceutical industry. A brief introduction and limitations to the practical use of supercritical carbon dioxide as a reaction medium are also discussed, as are the applications of supercritical carbon dioxide in the semiconductor processing industry for wafer processing and its advantages and obstacles. Reviews available green solvents for extraction, separation, purification and synthesis Outlines environmentally friendly chemical processes in many applications, i.e., organic reactions, metal recovery, etc. Includes numerous, real industrial applications, such as polymers, pharmaceuticals, leather, paper, water filtration, textiles, food, oils and fats, and more Gives detailed accounts of the application of supercritical CO₂ in polymer production and processing Provides a process for extraction, separation and purification of compounds of biological medicinal importance Gives methods for nanoparticle production using supercritical carbon dioxide Provides a systematic discussion on the solubility of organic and organometallic compounds

The Cytoskeleton Thomas W. Clarkson, Polly R. Sager, Tore L.M. Syversen, 2012-12-06 This book is based on reviews and research presentations given at the 16th Rochester International Conference on Environmental Toxicity, entitled liThe Cytoskeleton: A Target for Toxic Agents, held on June 4, 5 and 6 in 1984. The conference provided an in-depth discussion of the effects and mechanism of action of some toxic agents on the cytoskeleton. Mammalian and other eukaryotic cells contain protein networks within the cytoplasm comprised of microfilaments, intermediate filaments and microtubules. These components of the cytoskeleton play a key role in cell shape, motility, intracellular organization and transport, and cell division. Furthermore, the cytoskeleton, via associations with the cell membrane, appears to function in intracellular communication and cellular responses to membrane events. Because of the complex functional roles of the cytoskeleton which vary with cell type, degree of differentiation, and cell cycle, its disruption may result in a variety of cellular changes. This expanding field in cell biology has already attracted the interest of toxicologists and environmental health scientists as a potentially fruitful area of research. Indeed, there is mounting evidence that certain toxic and chemotherapeutic compounds, as well as physical agents such as radiation and hydrostatic pressure, disrupt the normal structure and function of the cytoskeleton. This may be an important step in the overall expression of their action. It was, therefore, an opportune time to hold a conference to encourage the development of this area of toxicology and to suggest directions for future research.

Zeolites and Mesoporous Materials at the Dawn of the 21st Century A. Galarneau, F. Di Renzo, F. Fajula, J. Védrine, 2001-08-13 The Zeolites and Mesoporous Materials at the Dawn of the 21st Century Proceedings are the expression of the oral and poster communications which were presented during the 13th International Zeolite Conference (IZC). They are subdivided into 32 thematic sessions starting from the

genesis of materials to their applications through their characterisation. The paper volume contains the full texts of the 5 plenary and 6 keynote lectures and informative summaries of 150 oral and 540 poster presentations. These contributions have been selected among the 903 submissions received from a total of 57 countries! In order to gather all the communications in a handy document, the full texts of oral and poster presentations are available in CD-ROM. Besides the fields of zeolite science always represented at IZC (synthesis, characterisation, catalysis, etc), some subjects strengthened their position (mesoporous materials, theory and modelling), new areas emerge (advanced materials, environmental and life sciences) and older ones regain interest (natural zeolites). The understanding and development of the unique properties of porous materials relies on a unique blend of multidisciplinary knowledge: material science, with the implication of organic and colloid chemistry, to prepare micro- and mesoporous materials, surface and adsorption science sustained by theory and modelling to understand the peculiar behaviour of molecules in confined systems, special branches of catalysis, physics, chemical engineering and life science to design novel applications. The gathering of these elements is at the basis of a fruitful and evolutionary zeolite science, as it is hopefully reflected by these proceedings.

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NIOSH Research and Demonstration Grants, Fiscal Year ... ,1989 Listing of the Institute's research grants program during fiscal year 1984 (oct. 1, 1983-Sept. 30, 1984). Arranged under 10 work related diseases and injuries. Entries give identifying and fiscal information, title, principal investigator, summary, and publications. Indexes of grant numbers, investigators, and grantee institutions.
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The Rise and Fall of a Public Debt Market in 16th-Century China Wing-kin Puk,2015-11-16 In The Rise and Fall of a Public Debt Market in 16th-Century China, Wing-kin Puk explains the fate of Capitalism in late imperial China through the strange journey of a piece of paper: the Ming salt certificate.

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