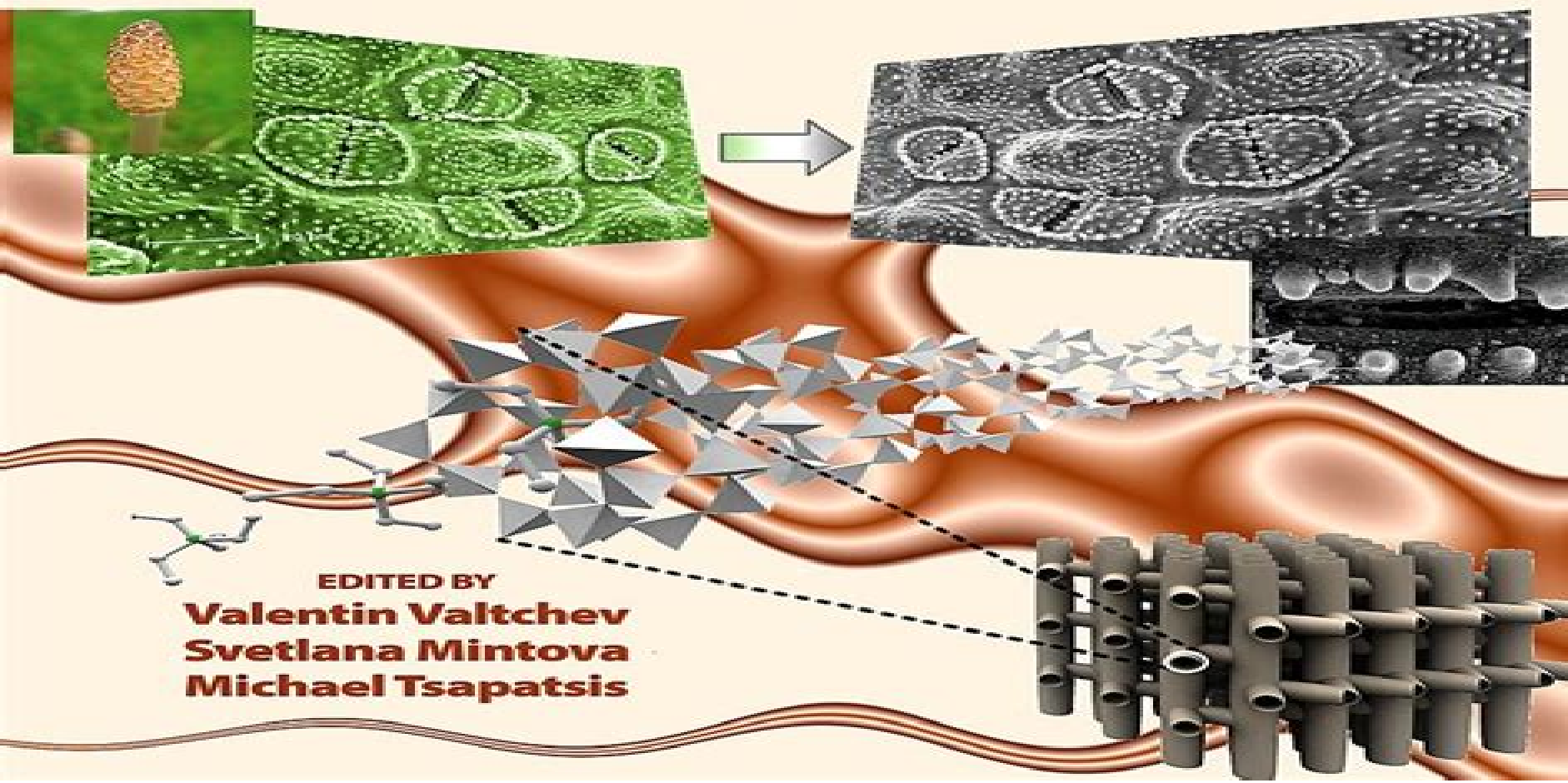




ORDERED POROUS SOLIDS

RECENT ADVANCES AND PROSPECTS



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Valentin Valtchev
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Ordered Porous Solids Recent Advances And Prospects

Katrin Zwirgmaier



Ordered Porous Solids Recent Advances And Prospects:

Ordered Porous Solids Valentin Valtchev, Svetlana Mintova, Michael Tsapatsis, 2011-08-11 The developments in the area of ordered nanoporous solids have moved beyond the traditional catalytic and separation uses and given rise to a wide variety of new applications in different branches of chemistry physics material science etc The activity in this area is due to the outstanding properties of nanoporous materials that have attracted the attention of researchers from different communities However recent achievements in a specific field often remain out of the focus of collaborating communities This work summarizes the latest developments and prospects in the area of ordered porous solids including synthetic layered materials clays microporous zeolite type materials ordered mesoporous solids metal organic framework compounds MOFs carbon etc All aspects from synthesis via comprehensive characterization to the advanced applications of ordered porous materials are presented The chapters are written by leading experts in their respective fields with an emphasis on recent progress and the state of the art Summarizes the latest developments in the field of ordered nanoporous solids Presents state of the art coverage of applications related to porous solids Incorporates 28 contributions from experts across the disciplines

Advances in Energy Materials Iuliana Stoica, Ann Rose Abraham, A. K. Haghi, 2023-10-27 This new volume focuses on materials used for energy generation and includes a wide spectrum of applications to solve alternative energy issues The book reviews the state of the art issues in global energy problems and reports on advanced methods of preparation of nanoscale energy materials with explanations of the structure and properties It highlights current developments in the energy sector from the materials angle along with new techniques Topics include polymer nanocomposites with smart behavior and their applicability of in energy applications magnetorheological and electrorheological properties of smart polymer systems and their energy related applications metal organic frameworks emerging porous materials for energy applications applications of carbon nanotubes in energy harvesting and storage new developments in piezoelectric materials and much more

Porous Materials for Carbon Dioxide Capture An-Hui Lu, Sheng Dai, 2014-04-17 This multi authored book provides a comprehensive overview of the latest developments in porous CO₂ capture materials including ionic liquid derived carbonaceous adsorbents porous carbons metal organic frameworks porous aromatic frameworks micro porous organic polymers It also reviews the sorption techniques such as cyclic uptake and desorption reactions and membrane separations In each category the design and fabrication the comprehensive characterization the evaluation of CO₂ sorption separation and the sorption degradation mechanism are highlighted In addition the advantages and remaining challenges as well as future perspectives for each porous material are covered This book is aimed at scientists and graduate students in such fields as separation carbon polymer chemistry material science and technology who will use and appreciate this information source in their research Other specialists may consult specific chapters to find the latest authoritative reviews Dr An Hui Lu is a Professor at the State Key Laboratory of Fine Chemicals School of Chemical Engineering Faculty of Chemical Environmental

and Biological Science and Technology Dalian University of Technology China Dr Sheng Dai is a Corporate Fellow and Group Leader in the Chemical Sciences Division at Oak Ridge National Laboratory ORNL and a Professor of Chemistry at the University of Tennessee USA

Analytical Separation Science, 5 Volume Set Jared Anderson, Alain Berthod, Veronica Pino, Apryll M. Stalcup, 2016-02-29 Endlich ein Forschungsleitfaden für Wissenschaftler des Fachgebiets die neue Methoden entwickeln oder einsetzen Dieses Handbuch umfasst fünf thematische Bände und bietet damit einen umfassenden Überblick über das Fachgebiet Erläutert werden Grundlagen die Methodenentwicklung und hochkarätige Anwendungen für alle wichtigen Analyseverfahren darunter chromatische Verfahren Techniken in den Bereichen Elektromigration und Membranen Dieses Referenzwerk umfasst ein breites Spektrum und legt den Schwerpunkt auf Entwicklungen für die Zukunft Damit ist es ein Muss für Forscher und eine wertvolle Wissensquelle für Studenten im Hauptstudium und Studienabsolventen

New and Future Developments in Catalysis Steven L Suib, 2013-07-11 New and Future Developments in Catalysis is a package of books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach There will be extensive cross referencing within all volumes This volume presents a complete picture of all carbon dioxide CO₂ sources outlines the environmental concerns regarding CO₂ and critically reviews all current CO₂ activation processes Furthermore the volume discusses all future developments and gives a critical economic analysis of the various processes Offers in depth coverage of all catalytic topics of current interest and outlines future challenges and research areas A clear and visual description of all parameters and conditions enabling the reader to draw conclusions for a particular case Outlines the catalytic processes applicable to energy generation and design of green processes

Porous Polymers Shilun Qiu, Teng Ben, 2015-11-03 Porous materials with ultrahigh surface area are of great interest for potential applications in energy storage and environmental remediation Porous Polymers describes the significant recent progress in the development of different porous frameworks with a particular focus on the relationship between structure design synthesis method and properties The book starts with an introduction to porous materials and their functions followed by chapters looking at the design of porous polymers synthesis methods of porous polymers reversible methods irreversible methods copolymerization methods and self polymerization methods characterisation of porous polymer structures and post synthesis techniques of porous polymers lithiation sulphonation carbonization grafting Specific chapters then detail different porous materials systems such as conjugated microporous polymers CMPs covalent organic frameworks COFs hyper crosslinked polymers HCPs polymers of intrinsic microporosity PIMs and porous aromatic frameworks PAFs Written by active researchers in the field the book provides a comprehensive overview of different porous polymer systems for researchers and graduate students in chemistry and materials science working on novel materials and those interested in the energy and environmental applications

New and

Future Developments in Catalysis Dapeng Liu, Raymond Lau, Xinli Jia, Armando Borgna, Yanhui Yang, 2013-07-11

Advanced Optical Instruments and Techniques Daniel Malacara Hernández, 2017-11-22 Advanced Optical Instruments and Techniques includes twenty three chapters providing processes methods and procedures of cutting edge optics engineering design and instrumentation Topics include biomedical instrumentation and basic and advanced interferometry Optical metrology is discussed including point and full field methods Active and adaptive optics holography radiometry the human eye and visible light are covered as well as materials including photonics nanophotonics anisotropic materials and metamaterials

Dyes and Photoactive Molecules in Microporous Systems Virginia Martínez-Martínez, Fernando López Arbeloa, 2020-12-15 This book provides an overview of the design synthesis and characterization of different photoactive hybrid organic inorganic materials based on the combination of mainly organic molecules and inorganic nanostructures tackling their uses in different scientific fields from photonics to biomedicine There are many examples extensively describing how the confinement of organic compounds i e chromophores photochromic molecules or photoreactants or other photoactive compounds i e metal clusters into several microporous systems can modulate the photophysical properties and photochemical reactions leading to interesting applications Among ordered hosts different systems of diverse nature are widely used such as the the 1D or 3D channels of zeolitic frameworks interlayer space of 2D clays the organic nanospace of cucurbituril and cyclodextrins or the organo inorganic porous crystalline MOFs systems This volume highlights the advances of these photoactive materials and aims to be an inspiration for researchers working in materials science and photochemistry including chemists material engineers physicists biologists and medical researchers

Heterogeneous Catalysis for Today's Challenges Brian Trewyn, 2015-06-22 This book presents the latest research in the field of heterogeneous catalysis Heterogeneous catalysis and homogeneous catalysis are important factors in increasing the development of green chemistry Some of the challenges that we are responsible for are directing research efforts toward increasing the kinetics of heterogeneous catalysis to homogeneous catalysis levels improving the recyclability of the catalysts and developing new supports that can act as catalysts or cocatalysts Following reaction kinetics and mechanisms on supported catalysts provides the degree of precision and accuracy already enjoyed by the homogeneous catalysis community The editors present an easily accessible digest for researchers and a reference aimed at offering guidance to new researchers in the field

Metal-Organic Frameworks in Analytical Chemistry Masoud Mirzaei, Amirhassan Amiri, 2023-08-02 This book covers multipurpose usage of MOFs in sample preparation integration and detection stages of analytical chemistry for researchers scientists engineers who are interested in developing new materials or new applications

Functional Supramolecular Architectures Paolo Samorì, Franco Cacialli, 2014-06-13 A comprehensive overview of functional nanosystems based on organic and polymeric materials and their impact on current and future research and technology in the highly interdisciplinary field of materials science As such this handbook covers synthesis and fabrication

methods as well as properties and characterization of supramolecular architectures Much of the contents are devoted to existing and emerging applications such as organic solar cells transistors diodes nanowires and molecular switches The result is an indispensable resource for materials scientists organic chemists molecular physicists and electrochemists looking for a reliable reference on this hot topic

Hydrocarbon Chemistry, 2 Volume Set George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-10-02 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists Angewandte Chemie and useful for chemical engineers as well as engineers in the chemical and petrochemical industries Petroleum Science and Technology

Advances in Catalysis, 2014-12-01 Advances in Catalysis fills the gap between the journal papers and the textbooks across the diverse areas of catalysis research For more than 60 years Advances in Catalysis has been dedicated to recording progress in the field of catalysis and providing the scientific community with comprehensive and authoritative reviews This series is invaluable to chemical engineers and chemists working in the field of catalysis in academia or industry Authoritative reviews written by experts in the field Topics selected to reflect progress of the field Insightful and critical articles fully edited to suit various backgrounds

Introduction to Holography Vincent Toal, 2022-12-13 This fully updated second edition of Introduction to Holography provides a theoretical background in optics and holography with a comprehensive survey of practical applications It is intended for the non specialist with an interest in using holographic methods in research and engineering The text assumes some knowledge of electromagnetism although this is not essential for an understanding of optics which is covered in the first two chapters A descriptive approach to the history and principles of holography is followed by a chapter on volume holography Essential practical requirements for successful holographic recording are explained in detail Recording materials are considered with detailed discussions of those in common use Properties peculiar to holographically reconstructed images are emphasised as well as applications for which holography is particularly suitable Mathematical tools are introduced as and when required throughout the text with important results derived in detail In this new edition topics such as photopolymers dynamic holographic displays holographic optical elements sensors and digital holography are covered in greater depth New topics have been added including UV and infrared holography holographic authentication and encryption as well as particle beam X ray and acoustic holography Numerical problems are provided at the end of each chapter This book is suitable for undergraduate courses and will be an important resource for those teaching optics and

holography It provides scientists and engineers with knowledge of a wide range of holographic applications in research and industry as well as an understanding of holography's potential for future use **Micoreactors in Preparative Chemistry**

Wladimir Reschetilowski, 2013-09-13 This is the first book in the field to focus on these aspects providing extremely valuable information unavailable elsewhere for anyone seeking the practical application of microreactor technology in preparative chemistry The topics covered branch out in three different directions To begin with the knowledge necessary for the preparative chemistry concerning the influence of the so called microeffects on the reaction procedure and on mass and heat transfer as well as the surface phenomena are provided in detail Next practical aspects of the synthesis of various basic chemicals and fine chemicals polymers bioproducts and nanoparticles are discussed including important advice for both the researcher and industrial chemist Finally reaction examples in microreactors whose reaction guidance are best understood are given together with universally applicable correlations as well as modeling approaches and transfer potential on related reaction systems With its specific instructions tips and experimental procedures for product syntheses as well as the inclusion of both the technical and theoretical background this is a must have for beginners and experts alike working in this emerging field Liquid Phase Oxidation via Heterogeneous Catalysis Mario G. Clerici, Oxana A. Kholdeeva, 2013-04-26 Sets

the stage for environmentally friendly industrial organic syntheses From basic principles to new and emerging industrial applications this book offers comprehensive coverage of heterogeneous liquid phase selective oxidation catalysis It fully examines the synthesis characterization and application of catalytic materials for environmentally friendly organic syntheses Readers will find coverage of all the important classes of catalysts with an emphasis on their stability and reusability Liquid Phase Oxidation via Heterogeneous Catalysis features contributions from an international team of leading chemists representing both industry and academia The book begins with a chapter on environmentally benign oxidants and then covers Selective oxidations catalyzed by TS 1 and other metal substituted zeolites Selective catalytic oxidation over ordered nanoporous metallo aluminophosphates Selective oxidations catalyzed by mesoporous metal silicates Liquid phase oxidation of organic compounds by supported metal based catalysts Selective liquid phase oxidations in the presence of supported polyoxometalates Selective oxidations catalyzed by supported metal complexes Liquid phase oxidation of organic compounds by metal organic frameworks Heterogeneous photocatalysis for selective oxidations with molecular oxygen All the chapters dedicated to specific types of catalysts follow a similar organization and structure making it easy to compare the advantages and disadvantages of different catalysts The final chapter examines the latest industrial applications such as the production of catechol and hydroquinone cyclohexanone oxime and propylene oxide With its unique focus on liquid phase heterogeneous oxidation catalysis this book enables researchers in organic synthesis and oxidation catalysis to explore and develop promising new catalytic materials and synthetic routes for a broad range of industrial applications **Electrochemistry**

Mathieu Etienne, 2012 Relaunching in 2012 the Specialist Periodical Report Electrochemistry presents comprehensive and

critical reviews in all aspects of the field Specialist Periodical Reports present comprehensive and critical reviews of the current literature with contributions from across the globe Relaunching in 2012 with a new editorial team Compton and Wadhawan the eleventh volume of Electrochemistry has a special focus on Nanosystems Topics examined in this volume include single event electrochemistry nanoparticle electrocatalysis bipolar electrochemistry in the nanosciences nanocarbon electrochemistry electrochemistry within templatee nanosystems and electrochemistry within liquid nanosystems This volume is a key reference in the field of electrochemistry allowing the reader to easily become acquainted with the latest research and opinion Purchasers of the print edition can register for free access to the electronic edition by returning the enclosed registration card

Complex-shaped Metal Nanoparticles Tapan K. Sau, Andrey L. Rogach, 2012-08-07 The past few years have witnessed the development of non spherical metal nanoparticles with complex morphologies which offer tremendous potential in materials science chemistry physics and medicine Covering all important aspects and techniques of preparation and characterization of metal nanoparticles with controlled morphology and architecture this book provides a sound overview from the basics right up to recent developments Renowned research scientists from all over the world present the existing knowledge in the field covering theory and modeling synthesis and properties of these nanomaterials By emphasizing the underlying concepts and principles in detail this book enables researchers to fully recognize the future research scope and the application potential of the complex shaped metal nanoparticles inspiring further research in this field

Advanced Functional Porous Materials Arya Uthaman, Sabu Thomas, Tianduo Li, Hanna Maria, 2021-11-13 This book presents synthesis characterization and applications of macroporous mesoporous nanoporous hierarchical porous porous metals and porous ceramics Special emphasis is given to the preparation of porous activated carbon materials and porous ionic liquid derived materials for CO₂ emissions mitigation Additionally a chapter includes the physical and mathematical modeling in porous media Many analytical techniques for characterization are discussed in this book Also the biomedical and industrial applications of porous materials in adsorption catalysis biosensors drug delivery nanotechnology are described The content helps solving fundamental and applied problems in porous materials with length scales varying from macro to nano level

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