



# Porous Carbon Solids

**Janusz Pawliszyn**



## **Porous Carbon Solids:**

**Porous Carbon Solids**, 1967      Characterisation of Porous Solids VIII Stefan Kaskel, 2009 This book is the Proceedings of the 8th International Symposium on the Characterisation of Porous Solids The conference is one of a series held every three years which covers developments in methods for the characterisation of porous materials and applications of those methods COPS VIII is concerned with fundamental and applied research on the characterisation of the structure of porous materials and the relationship between structure and material performance The scope includes experimental characterisation methods such as X Ray diffraction NMR adsorption mercury intrusion and calorimetry theoretical and simulation methods used to interpret experimental data such as molecular simulation classical and statistical mechanical theory and pore network modelling and applied research on the impact of measured material properties on performance in applications This book will appeal to both academics and commercial researchers      Adsorption by Powders and Porous Solids Jean Rouquerol, Françoise Rouquerol, Philip Llewellyn, Guillaume Maurin, Kenneth Sing, 2013-09-06 The declared objective of this book is to provide an introductory review of the various theoretical and practical aspects of adsorption by powders and porous solids with particular reference to materials of technological importance The primary aim is to meet the needs of students and non specialists who are new to surface science or who wish to use the advanced techniques now available for the determination of surface area pore size and surface characterization In addition a critical account is given of recent work on the adsorptive properties of activated carbons oxides clays and zeolites Provides a comprehensive treatment of adsorption at both the gas solid interface and the liquid solid interface Includes chapters dealing with experimental methodology and the interpretation of adsorption data obtained with porous oxides carbons and zeolites Techniques capture the importance of heterogeneous catalysis chemical engineering and the production of pigments cements agrochemicals and pharmaceuticals      **Characterization of Porous Solids VII** Philip Llewellyn, Francisco Rodríguez Reinoso, Jean Rouquerol, Nigel Seaton, 2006-08-07 The 7th International Symposium on the Characterization of Porous Solids COPS VII was held in the Congress Centre in Aix en Provence between the 25th 28th May 2005 The symposium covered recent results of fundamental and applied research on the characterization of porous solids Papers relating to characterization methods such as gas adsorption and liquid porosimetry X ray techniques and microscopic measurements as well as the corresponding molecular modelling methods were given These characterization methods were shown to be applied to all types of porous solids such as clays carbons ordered mesoporous materials porous glasses oxides zeolites and metal organic frameworks 36 oral presentations and 166 posters and around 230 guests from 27 countries A large part of this symposium was devoted to the use computational methods to characterise porous solids      *Carbon-based Solids and Materials* Pierre Delhaes, 2013-02-07 It is well known that solid carbons can be found in various guises with different forms of bulk phases graphites diamonds and carbynes as well as more molecular forms fullerenes nanotubes and graphenes resulting from recent

discoveries The cause of this rich polymorphism is analyzed in the first part of this book chapters 1 5 with the propensity of carbon atoms for forming different types of homopolar chemical bonds associated with variable coordination numbers Precursor organic molecules and parent compounds are also described to establish specific links with this rich polymorphism Then in a second part chapters 6 10 a comparative review of the main classes of bulk physical properties is presented This approach emphasizes in particular the electronic behavior of pi polyaromatic systems organized in plane and curved atomic sheets Finally in a third part chapters 11 15 the surface and interface characteristics are introduced together with the texture and morphology of these multiscale carbon materials An overview of the main field of applications is related showing the large use and interest for these solids

**Characterisation of Porous Solids V** G. Kreysa, J.P. Baselt, K.K. Unger, 2000-04-11 The Fifth International Symposium on the Characterisation of Porous Solids COPS V was held at Heidelberg Germany from May 30 to June 2 1999 About 220 participants from 25 countries enjoyed a very successful meeting with 32 lectures and 155 poster presentations The Symposium started with a highly stimulating lecture by Sir John Meurig Thomas Cambridge highlighting the recent developments in engineering of new catalysts The following two full sessions were devoted to theory modelling and simulation which provide the basis for the interpretation of pore structural data of adsorbents and finely dispersed solids Sessions 2 and 3 focused on the advances in the synthesis and characterisation of highly ordered inorganic adsorbents and carbons Sessions 4 and 5 addressed important questions with respect to the characterisation of porous solids by sorption measurement and other related techniques The intensive three day programme provided a stimulating forum for the exchange of novel research findings concepts techniques and materials which are collected in this volume

**Characterization of Porous Solids VI**, 2002-11-14 This book contains 99 of the papers that were presented at the 6th in the series of Symposia on Characterization of Porous Solids held in Alicante Spain May 2002 Written by leading international specialists in the subject the contributions represent an up to date and authoritative account of recent developments around the world in the major methods used to characterize porous solids The book is a useful work of reference for anyone interested in characterizing porous solids such as MCM 41 mesoporous materials pillared clays etc Papers on pore structure determination using gas adsorption feature strongly together with papers on small angle scattering methods mercury porosimetry microcalorimetry scanning probe microscopies and image analysis

*Characterization of Porous Solids* H. Kral, Jean Rouquerol, Kenneth Sing, K.K. Unger, 1988-04-01 The importance of porosity has long been recognized by scientists and engineers Porous solids are widely encountered in industry and everyday life and their behaviour e.g. chemical reactivity adsorptive capacity and catalytic activity is dependent on their pore structure A considerable amount of work on porous solids has been undertaken both in academic and in industrial laboratories However all this activity is in urgent need of a critical appraisal To undertake this task a number of leading experts in the field of adsorption porosimetry X ray and neutron scattering optical and electron microscopy calorimetry and fluid permeation were

brought together at the 1987 IUPAC COPS I Symposium This proceedings volume provides an up to date overall review of the theoretical foundations for modelling and characterizing porous systems It deals with most of the techniques in current use as applied to both model systems and porous solids of industrial importance The reader will find the description and discussion of a number of novel techniques as well as a critical appraisal and comparison of the more established methods All those concerned with the characterization of porous solids in academic and industrial laboratories will find much to interest them in this volume It should be on the bookshelf of applied research centres involved in adsorption catalysis purification of gases and liquids pigments fillers building materials etc Porous Carbons - Hyperbranched Polymers - Polymer Solvation

Timothy E. Long, Brigitte Voit, Oguz Okay, 2014-12-26 The series Advances in Polymer Science presents critical reviews of the present and future trends in polymer and biopolymer science It covers all areas of research in polymer and biopolymer science including chemistry physical chemistry physics material science The thematic volumes are addressed to scientists whether at universities or in industry who wish to keep abreast of the important advances in the covered topics Advances in Polymer Science enjoy a longstanding tradition and good reputation in its community Each volume is dedicated to a current topic and each review critically surveys one aspect of that topic to place it within the context of the volume The volumes typically summarize the significant developments of the last 5 to 10 years and discuss them critically presenting selected examples explaining and illustrating the important principles and bringing together many important references of primary literature On that basis future research directions in the area can be discussed Advances in Polymer Science volumes thus are important references for every polymer scientist as well as for other scientists interested in polymer science as an introduction to a neighboring field or as a compilation of detailed information for the specialist Review articles for the individual volumes are invited by the volume editors Single contributions can be specially commissioned Readership Polymer scientists or scientists in related fields interested in polymer and biopolymer science at universities or in industry graduate students Characterization of Porous Solids III F. Rodríguez-Reinoso, Jean Rouquerol, KK Unger, Kenneth Sing, 1994-08-26

The objectives of the Third IUPAC Symposium on the Characterization of Porous Solids COPS III were 1 to provide the opportunity for specialists to exchange ideas and new information on theoretical principles and methodology and 2 to generate proposals for the comparison and utilization of the many techniques now available for the characterization of porous solids A successful outcome of the Symposium has been the final report of the IUPAC Subcommittee on Recommendations for the Characterization of Porous Solids a summary of which is given in these proceedings The edited papers included in the present volume have been selected from the 155 oral and poster presentations given at this symposium which attracted 200 participants from 28 different countries The following topics were discussed 1 Simulation and modelling of pore structures and pore filling mechanisms 2 Novel experimental techniques with particular reference to high resolution techniques 3 Model pore structures and reference materials 4 Porous materials of technological importance

The wide range of materials and techniques described provide a useful and comprehensive reference source for academic and industrial scientists and technologists

**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

**Characterization of Porous Solids II** KK Unger, F. Rodríguez-Reinoso, Jean Rouquerol, Kenneth Sing, 1991-04-19 The Second IUPAC Symposium on the Characterization of Porous Solids COPS II provided the opportunity for detailed discussion and appraisal of the most important techniques currently used for the characterization of porous materials especially those of technological importance The 82 selected papers and reviews contained in this volume are mainly concerned with the theoretical and experimental aspects of adsorption fluid penetration small angle scattering and spectroscopic methods with their application in the study of adsorbents catalysts constructional materials etc Particular attention is given to the characterization of carbons oxides zeolites clays cement and polymers The wide range of materials and techniques described in this book provide a useful and comprehensive reference source for academic and industrial scientists and technologists

*Electrochemistry of Porous Materials* Antonio Doménech Carbó, 2009-12-10 Porous materials continue to attract considerable attention because of their wide variety of scientific and technological applications such as catalysis shape and size selective absorption and adsorption gas storage and electrode materials Both research and applications of porous materials via electroanalysis electrosynthesis sensing fuel

**Porous Carbons** Feiyu Kang, Michio Inagaki, Hiroyuki Itoi, 2021-11-04 Carbon materials form pores ranging in size and morphology from micropores of less than 1nm to macropores of more than 50nm and from channel like spaces with homogenous diameters in carbon nanotubes to round spaces in various fullerene cages including irregularly shaped pores in polycrystalline carbon materials The large quantity and rapid rate of absorption of various molecules made possible by these attributes of carbon materials are now used in the storage of foreign atoms and ions for energy storage conversion and adsorption and for environmental remediation Porous Carbons Syntheses and Applications focuses on the fabrication and

application of porous carbons It considers fabrication at three scales micropores mesopores and macropores Carbon foams sponges and 3D structured carbons are detailed The title presents applications in four key areas energy storage energy conversion energy adsorption including batteries supercapacitors and fuel cells and environmental remediation emphasizing the importance of pore structures at the three scales and the diffusion and storage of various ions and molecules The book presents a short history of each technique and material and assesses advantages and disadvantages This focused book provides researchers with a comprehensive understanding of both pioneering and current synthesis techniques for porous carbons and their modern applications Presents modern porous carbon synthesis techniques and modern applications of porous carbons Presents current research on porous carbons in energy storage conversion and adsorption and in environmental remediation Provides a history and assessment of both pioneering and current cutting edge synthesis techniques and materials Covers a significant range of precursor materials preparation techniques and characteristics Considers the future development of porous carbons and their various potential applications

*Chemistry & Physics of Carbon* Ljubisa R. Radovic, 2007-12-20 Written by distinguished researchers in carbon the long running Chemistry and Physics of Carbon series provides a comprehensive and critical overview of carbon in terms of molecular structure intermolecular relationships bulk and surface properties and their behavior in an amazing variety of current and emerging applications rang

**Gas-Solid Reactions** Julian Szekeley, 2012-12-02 Gas Solid Reactions describes gas solid reaction systems focusing on the four phenomena external mass transfer pore diffusion adsorption desorption and chemical reaction This book consists of eight chapters After the introduction provided in Chapter 1 the basic components of gas solid reactions are reviewed in Chapter 2 Chapter 3 describes the reactions of individual nonporous solid particles while Chapter 4 elaborates the reaction of single porous particles Solid solid reactions proceeding through gaseous intermediates are considered in Chapter 5 Chapter 6 deals with the experimental approaches to the study of gas solid reaction systems How information on single particle behavior may be used for the design of multiparticle large scale assemblies and packed and fluidized bed reaction systems is deliberated in Chapter 7 The last chapter covers the specific gas solid reaction systems including some statistical indices indicating the economic importance of the systems and processes it s based on This publication is recommended for practicing engineers engaged in process research development and design in the many fields where gas solid reactions are important

*Evolution of Solid Phase Microextraction Technology* Janusz Pawliszyn, 2023-03-24 Solid Phase Microextraction SPME is a flexible and convenient sampling and sample preparation technique that extracts different kinds of analytes including both volatile and non volatile without the use of a solvent The technique facilitates fast simple and automated determination of target analytes in a range of matrices As it offers a green methodology it is growing in popularity as an alternative tool in analytical chemistry to traditional methods This book follows on in spirit from the editors previous title Applications of Solid Phase Microextraction and will introduce the reader to

breakthrough methodologies and cutting edge applications Although it assumes a good degree of SPME knowledge an overview of the fundamentals is given before taking the reader through an update of the field The reader will learn the basic principles and advantages of different SPME formats including the stir bar extraction techniques thin film SPME Bio SPME and new trends in different coatings Applications in complex media including food analysis drug residues and bioanalysis are covered Bringing together leading sample preparation academics from around the world the editor has put together an informative new book suitable for analytical chemists and practitioners utilising SPME tools in their research

*Activated Carbon* Harry Marsh, Francisco Rodríguez Reinoso, 2006-07-12 Recent years have seen an expansion in speciality uses of activated carbons including medicine filtration and the purification of liquids and gaseous media Much of current research and information surrounding the nature and use of activated carbon is scattered throughout various literature which has created the need for an up to date comprehensive and integrated review reference In this book special attention is paid to porosities in all forms of carbon and to the modern day materials which use activated carbons including fibres clothes felts and monoliths In addition the use of activated carbon in its granular and powder forms to facilitate usage in liquid and gaseous media is explored Activated Carbon will make essential reading for Material Scientists Chemists and Engineers in academia and industry Characterization of porosity The surface chemistry of the carbons Methods of activation and mechanisms of adsorption Computer modelling of structure and porosity within carbons Modern instrumental analytical methods

Understanding Carbon Nanotubes Annick Loiseau, Pascale Launois-Bernede, Pierre Petit, Stephan Roche, Jean-Paul Salvetat, 2006-07-07 This volume presents the foundations of carbon nanotube science reviewing recent developments and prospects for practical application Each chapter summarizes relevant concepts from physics chemistry or materials science followed by detailed reports on topics including polymorphism and microstructure of carbon synthesis and growth structural analysis by electron microscopy spectroscopic methods electronic structure transport mechanical and surface properties of nanotubes and composites

Bibliography of Solid Adsorbents, 1943 to 1953 Victor Reuel Deitz, 1956



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