

Activated Carbon Surfaces in Environmental Remediation

Teresa J. Bandosz
Editor



Activated Carbon Surfaces In Environmental Remediation Volume 7 Interface Science And Technology

Robson Fernandes de Farias



Activated Carbon Surfaces In Environmental Remediation Volume 7 Interface Science And Technology:

Activated Carbon Surfaces in Environmental Remediation Teresa J. Bandosz, 2006-02-27 Activated Carbon Surfaces in Environmental Remediation provides a comprehensive summary of the environmental applications of activated carbons. In order to understand the removal of contaminants and pollutants on activated carbons, the theoretical bases of adsorption phenomena are discussed. The effects of pore structure and surface chemistry are also addressed from both science and engineering perspectives. Each chapter provides examples of real applications with an emphasis on the role of the carbon surface in adsorption or reactive adsorption. The practical aspects addressed in this book cover the broad spectrum of applications from air and water cleaning and energy storage to warfare gas removal and biomedical applications. This book can serve as a handbook or reference book for graduate students, researchers, and practitioners with an interest in filtration, water treatment, adsorbents, and air cleaning, in addition to environmental policies and regulations. Addresses fundamental carbon science and how it relates to applications of carbon surfaces. Describes the broad spectrum of activated carbon applications in environmental remediation. Serves as a handbook or reference book for graduate students, researchers, and practitioners in the field.

Interface Science and Composites Soo-Jin Park, Min-Kang Seo, 2011-07-18 The goal of Interface Science and Composites is to facilitate the manufacture of technological materials with optimized properties on the basis of a comprehensive understanding of the molecular structure of interfaces and their resulting influence on composite materials processes. From the early development of composites of various natures, the optimization of the interface has been of major importance. While there are many reference books available on composites, few deal specifically with the science and mechanics of the interface of materials and composites. Further, many recent advances in composite interfaces are scattered across the literature and are here assembled in a readily accessible form, bringing together recent developments in the field both from the materials science and mechanics perspective in a single convenient volume. The central theme of the book is tailoring the interface science of composites to optimize the basic physical principles rather than on the use of materials and the mechanical performance and structural integrity of composites with enhanced strength, stiffness, and fracture toughness or specific fracture resistance. It also deals mainly with interfaces in advanced composites made from high performance fibers such as glass, carbon, aramid, and some inorganic fibers and matrix materials encompassing polymers, carbon, metals, alloys, and ceramics. Includes chapter on the development of a nanolevel dispersion of graphene particles in a polymer matrix. Focus on tailoring the interface science of composites to optimize the basic physical principles. Covers mainly interfaces in advanced composites made from high performance fibers.

Activated Carbon Jude Okolie, Alivia Mukherjee, 2025-05-08 Activated Carbon: Synthesis, Analysis, and Industrial Applications explores the fundamentals of activated carbon production and characterization, modification techniques, and applications of machine learning in the field of activated carbon synthesis and applications. The book is divided into three parts to enable readers and researchers of all levels easy access to the

information herein Part 1 is on Synthesis methods and characterization techniques The next six chapters on part 2 focus on diverse industrial applications of activated carbon The last section is on machine learning applications as well as research progress in activated carbon synthesis modification and diverse applications Written for researchers graduate and undergraduate students academics and industry professionals in the fields of sustainable environmental science and chemical engineering this book will be a welcomed reference for those who wish to better understand the role of activated carbon in solving sustainability challenges in the world related to energy shortage greenhouse gas emissions and environmental issues Offers useful information for industrial practitioners interested in the development of new biobased technology Opens up new research directions by listing knowledge gaps and future research prospects of activated carbon utilization

Interface Science in Drinking Water Treatment Gayle Newcombe, David Dixon, 2006-09-06 It is difficult to imagine anything more important to the human population than safe drinking water Lack of clean drinking water is still the major cause of illness and death in young children in developing countries In more fortunate communities where water treatment is practiced the primary aim of water authorities is to provide water that is free from pathogens and toxins Most countries now have water quality regulations or guidelines which are driving water authorities to produce purer water with the minimum of contamination from natural or man made origin At the same time consumers are demanding that chemicals added during the treatment of drinking water be kept to a minimum As a consequence conventional clarification methods are being challenged to comply with the new regulations and restrictions and our understanding of the mechanisms involved is being tested as never before *Interface Science in Drinking Water Treatment* contains a rigorous review of water treatment practices from a fundamental viewpoint The book includes material from leading experts in the field of water treatment reviewing their specific fields of expertise against a background of colloid and surface chemistry and examines each step of the journey from source to consumer tap It therefore permits the reader to develop a deep understanding of the complex processes taking place and of the necessary treatments which are vital for the provision of safe and palatable drinking water The book is aimed at researchers educators and practitioners in science and engineering particularly those involved in water treatment and colloidal chemistry Covers all existing water treatment processes approached from a fundamental surface and colloid science viewpoint Unique collection of R D authors all experts in water treatment processes Comprehensive review of water treatment with a complete list of references

Advanced Materials and Nano Systems: Theory and Experiment

(part-1) Dibya Prakash Rai, 2022-08-27 The discovery of new materials and the manipulation of their exotic properties for device fabrication is crucial for advancing technology Nanoscience and the creation of nanomaterials have taken materials science and electronics to new heights for the benefit of mankind *Advanced Materials and Nanosystems Theory and Experiment* covers several topics of nanoscience research The compiled chapters aim to update students teachers and scientists by highlighting modern developments in materials science theory and experiments The significant role of new

materials in future technology is also demonstrated The book serves as a reference for curriculum development in technical institutions and research programs in the field of physics chemistry and applied areas of science like materials science chemical engineering and electronics This part covers 12 topics in these areas 1 Carbon and boron nitride nanostructures for hydrogen storage applications 2 Nanomaterials for retinal implants 3 Materials for rechargeable battery electrodes 4 Cost effective catalysts for ammonia production 5 The role of nanocomposites in environmental remediation 6 Optical analysis of organic and inorganic components 7 Metal oxide nanoparticles 8 Mechanical analysis of orthopedic implants 9 Advanced materials and nanosystems for catalysis sensing and wastewater treatment 10 Topological Nanostructures 11 Hollow nanostructures

Advanced Technologies in Wastewater Treatment Angelo Basile, Alfredo Cassano, Mohammad Reza Rahimpour, Mohammad Amin Makarem, 2023-03-31 Advanced Technologies in Wastewater Treatment Oily Wastewaters focuses on characteristics and innovative treatment technologies of oily wastewater from various resources Primary and physical treatment methods such as absorption adsorption followed by common techniques like coagulation and fluctuation are discussed in detail Applications of other advanced methods for the treatment of oily wastewaters like utilization of membranes and stripping gases are covered as well Finally novel technologies applied in purification of oily wastewaters such as photocatalytic degradation and biological processes are reviewed and future outlooks and prospects are also illustrated Introduces the characteristics of oily wastewaters from various sources Includes primary and physical treatment techniques applied on oily wastewaters such as settlement absorption and adsorption Describes advanced oily wastewater treatment technologies such as coagulation fluctuation and membrane Explains novel processes for oily wastewater treatment such as biological processes and photocatalytic degradation

Surface Science of Adsorbents and Nanoadsorbents Tawfik Abdo Saleh, 2022-09-15 Surface Science of Adsorbents and Nanoadsorbents Volume TBD Properties and Applications in Environmental Remediation presents a unique collection of timely information on the surface science of adsorbents and nanoadsorbents The book offers a perfect source to document developments and innovations ranging from materials development and characterization of properties to applications that encompass the enhancement of sorption degradation processes and their usage for the removal of different pollutants including heavy metals dyes and pesticides etc It is written for post graduate students scientists in academia and industry chemical engineers and water quality monitoring agencies working in water treatment efficient materials nanomaterials development and quality control Provides the theoretical and scientific foundation for understanding synthesis and applications in nano adsorbent material Presents numerous examples to help users gain an understanding of each subject Includes a variety of illustrations that further enhance the content

Chemistry on Modified Oxide and Phosphate Surfaces: Fundamentals and Applications Robson Fernandes de Farias, 2009-01-10 Chemistry on Modified Oxide and Phosphate Surfaces Fundamentals and Applications is in the authoritative Interface Science and Technology Series and presents the key features and applications of modified oxide

and phosphate surfaces Examines both basic and applied aspects Incorporates examples from recent publications

Application of Adsorbents for Water Pollution Control Amit Bhatnagar, 2012-11-11 Among various water and wastewater treatment technologies the adsorption process is considered better because of lower cost simple design and easy operation Activated carbon a universal adsorbent is generally used for the removal of diverse types of pollutants from water and wastewater Research is now being directed towards the modification of carbon surfaces to enhance its adsorption potential towards specific pollutants However widespread use of commercial activated carbon is sometimes restricted especially in developing or poor countries due to its higher costs Attempts are therefore being made to develop inexpensive adsorbents utilizing abundant natural materials agricultural and industrial waste materials Use of waste materials as low cost adsorbents is attractive due to their contribution in the reduction of costs for waste disposal therefore contributing to environmental protection This e book explores knowledge on recent developments in adsorbents synthesis and their use in water pollution control This handy reference work is intended for researchers and scientists actively engaged in the study of adsorption and the development and application of efficient adsorption technology for water treatment This e book covers a wide range of topics including modeling aspects of adsorption process and the applications of conventional and non conventional adsorbents in water remediation emphasizing sorption mechanisms of different pollutants on the adsorbents

Theory of Colloid and Interfacial Electric Phenomena Hiroyuki Ohshima, 2006-09-05 Theory of Colloid and Interfacial Electric Phenomena is written for scientists engineers and graduate students who want to study the fundamentals and current developments in colloid and interfacial electric phenomena and their relation to stability of suspensions of colloidal particles and nanoparticles in the field of nanoscience and nanotechnology The primary purpose of this book is to help understand how the knowledge on the structure of electrical double layers double layer interactions and electrophoresis of charged particles will be important to understand various interfacial electric phenomena and to improve the reader's skill and save time in the study of interfacial electric phenomena Also providing theoretical background and interpretation of electrokinetic phenomena and many approximate analytic formulas describing various colloid and interfacial electric phenomena which will be useful and helpful to understand these phenomena analyse experimental data Showing the fundamentals and developments in the field First book to describe electrokinetics of soft particles Providing theoretical background and interpretation of electrokinetic phenomena

Fundamentals of Soft Interfaces in Colloid and Surface Chemistry Hiroyuki Ohshima, 2024-09-10 This book explains and summarizes the fundamentals of soft interfaces and soft particles from a colloid and surface chemistry standpoint bringing knowledge together into a single resource for the first time It provides detailed mathematical description of colloidal and interfacial systems with a particular emphasis on ionic electrokinetic and electrostatic phenomena Hiroyuki Ohshima covers the most recent theoretical advances in the field of electrostatic interactions between soft interfaces electrophoresis diffusiophoresis gel electrophoresis of soft particles

including ionic size effects ion partitioning effects and the effects of hydrodynamic slip on hydrophobic surfaces It will help readers by providing a range of approximate analytic formulas which can be used to interpret various interfacial phenomena of soft interfaces and analyze experimental data in various fields Fundamentals of Soft Interfaces in Colloid and Surface Chemistry is written for graduate students and researchers chiefly in chemistry but also chemical engineering physics and materials science Utilizes rigorous theories and the various useful approximate analytical formulas based upon them Describes basic theories for various electrostatic and electrokinetic phenomena of soft interfaces Provides many formulas used to interpret and analyze experimental data of soft interfaces

Surface Science and Advanced Functional Applications of Cellulose Composites Ming-Guo Ma,Xing-Xiang Ji,2024-11-16 *Surface Science and Advanced Functional Applications of Cellulose Composites* Volume 38 looks at cellulose composites in relation to surface science and applications The book provides a comprehensive summary grounded in the surface chemistry and polymer physics of cellulose composites while also enabling readers to understand their history status and commercial challenges and future potential using a range of case studies and examples Other sections explore the applications of biomedical antibacterial water treatment flexible electronic devices energy storage and sensing and review recent developments problems and potential developmental directions of cellulose composites This book will appeal to chemists chemical engineers and materials scientists engaged in biomass cellulose nanocellulose composites surface science and related applied biomedical antibacterial water treatment flexible electronic device and energy storage fields Provides a comprehensive summary grounded in the surface chemistry and polymer physics of cellulose composites Covers the development history status and commercial challenges Explores applications in biomedical antibacterial water treatment flexible electronic devices energy storage and sensing Utilizes a range of case studies and useful examples Includes a forward looking emphasis on the sustainability of cellulose derived materials

A Handbook of Environmental Toxicology J.P.F. D'Mello,2019-12-04 Written by an international team of authors from a range of educational medical and research establishments this book is an essential reference for advanced students and researchers in the areas of environmental sciences ecology agriculture environmental health and medicine in addition to industry and government personnel responsible for environmental regulations and directives *A Handbook of Environmental Toxicology* focuses on two key aspects human disorders and ecotoxicology as affected by major toxins originating from biological sources and pollutants as well as radiation generated spontaneously or as a result of anthropogenic activity A diverse array of these potentially harmful agents regularly appear in the atmosphere soil water and food compromising both human health and biodiversity in natural and managed ecosystems

Surface Science of Photocatalysis Jiaguo Yu,Mietek Jaroniec,Chuanjia Jiang,2020-03-31 *Surface Science of Photocatalysis* Volume 32 summarizes significant findings on the surface science behind various classic and novel photocatalysts for energy and environmental applications with special emphasis on important surface interface processes in photocatalysis such as

interfacial charge transfer function of co catalysts and adsorption over photocatalyst surface This book timely and systematically reviews the state of the art of the surface science in semiconductor based photocatalysis serving as a useful reference book for both new and experienced researchers in this field

Chemistry of Modified Oxide and Phosphate Surfaces: Fundamentals and Applications Robson Fernandes de Farias, 2023-09-26 Chemistry of Modified Oxide and Phosphate Surfaces Fundamentals and Applications Second Edition Volume 17 presents an updated overview of the surface chemistry of modified oxides and phosphates The book focuses on their potential applications and provides a fundamental understanding and explanation of significant developments This new edition extensively updates and expands existing chapters with more recent examples and applications such as bulk and surface modifications In addition it adds two new chapters on both the formulation of solid propellants for rockets and missiles and medical applications This book will serve as an effective starting point for anyone wanting to understand the subject in greater depth It will appeal to advanced undergraduate and postgraduate students of chemistry chemical engineering materials science and engineering as well as researchers and the industry sector Overviews fundamental surface chemistry and applications of modified oxides and phosphates Clearly describes synthesis routes presents current applications and suggests possible future applications of these classes of compounds Includes extensively updated and expanded chapters in this new edition Presents two completely new chapters on key topics including the formulation of solid propellants and medical applications

Advanced Chemistry of Monolayers at Interfaces Toyoko Imae, 2007-04-20 Advanced Chemistry of Monolayers at Interfaces describes the advanced chemistry of monolayers at interfaces Focusing on the recent trends of methodology and technology which are indispensable in monolayer science They are applied to monolayers of surfactants amphiphiles polymers dendrimers enzymes and proteins which serve many uses Introduces the methodologies of scanning probe microscopy surface force instrumentation surface spectroscopy surface plasmon optics reflectometry and near field scanning optical microscopy Modern interface reaction method lithographic technology and different types of monolayers like adsorption Langmuir and Langmuir Blodgett monolayers at air liquid liquid liquid liquid solid and air solid interfaces are all covered Introducing novel methodologies and technologies Covering the different types of monolayers Discusses all currently available instrumental techniques for studying all types of monolayer

Chemical Functionalization of Carbon Nanomaterials Vijay Kumar Thakur, Manju Kumari Thakur, 2015-07-28 Carbon based nanomaterials are rapidly emerging as one of the most fascinating materials in the twenty first century Chemical Functionalization of Carbon Nanomaterials Chemistry and Applications provides a thorough examination of carbon nanomaterials including their variants and how they can be chemically functionalized It also gives a comprehensive

The Properties of Water and Their Role in Colloidal and Biological Systems Carel J. Van Oss, 2008-11-19 The book also treats the surface properties of apolar and polar molecules polymers particles and cells as well as their mutual interaction energies when immersed in water under the influence of the three prevailing non covalent

forces i.e. Lewis acid base AB Lifshitz van der Waals LW and electrical double layer EL interactions The polar AB interactions be they attractive or repulsive typically represent up to 90% of the total interaction energies occurring in water Thus the addition of AB energies to the LW EL energies of the classical DLVO theory of energy vs distance analysis makes this powerful tool the Extended DLVO theory applicable to the quantitative study of the stability of particle suspensions in water

Nanomaterials and Nanocomposites, Nanostructure Surfaces, and Their Applications Olena Fesenko, Leonid

Yatsenko, 2023-03-27 This book highlights some of the latest advances in nanotechnology and nanomaterials from leading researchers in Ukraine Europe and beyond It features contributions presented at the 8th International Science and Practice Conference Nanotechnology and Nanomaterials NANO2020 which was held on August 25-28 2021 at Lviv Polytechnic National University and was jointly organized by the Institute of Physics the National Academy of Sciences of Ukraine Lviv Polytechnic National University University of Tartu Estonia University of Turin Italy Pierre and Marie Curie University France European Profiles S.A. Greece Representation of the Polish Academy of Sciences in Kyiv University of Angers France Ruprecht Karl University of Heidelberg Germany Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key findings on material properties behavior and synthesis This book's companion volume also addresses topics such as nano optics energy storage and biomedical applications

Tissue Engineering Yoshito Ikada, 2011-08-29 Tissue engineering is an emerging interdisciplinary field occupying a major position in the regenerative medicine that aims at restoring lost or damaged tissues and organs with use of cells Regenerative medicine includes cellular therapy and tissue engineering In general the former treats patients by cell infusion alone while tissue engineering needs biomaterials and growth factors in addition to cells Biomaterials function in tissue engineering as the scaffold or template for cells to proliferate differentiate and produce matrices Tissue Engineering focuses on the fundamentals biomaterials scaffolds cell cultures bioreactors animal models etc recent animal and human trials and future prospects regarding tissue engineering Almost twenty years have passed since the advent of the tissue engineering which uses cells scaffolds and growth factors for regeneration of neotissues The number of investigations on tissue engineering is still increasing tremendously Nevertheless it seems likely that the number of reports describing clinical trials of tissue engineering will remain very limited Even the studies that apply tissue engineering research to large animals have not been performed yet on a large scale The major objective of this book is to address this question from a science and technology point of view and to describe the principles of basic technologies that have currently been developed by numerous research groups Helps reader understand the key issues required for promotion of clinical trials in tissue engineering Covers in full the issues related to tissue engineering Looking at current technologies in the field

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Introduction

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