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ALIJAH WARREN

Anne und die schwarzen Katzen Springer Science & Business Media
 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners. *Fiberglass Science and Technology* John Wiley & Sons
 Interest in biochar among soil and environment researchers has increased dramatically over the past decade. Biochar initially attracted attention for its potential to improve soil fertility and to uncouple the carbon cycle, by storing carbon from the atmosphere in a form that can remain stable for hundreds to thousands of years. Later it was found that biochar had applications in environmental and water science, mining, microbial ecology and other fields. Beneficial effects of biochar and its environmental applications cannot be fully realised unless the chemical, physical, structural and surface properties of biochar are known. Currently many of the analytical procedures used for biochar analysis are not well defined, which makes it difficult to choose the right biochar for an intended use and to

compare the existing data for biochars. Also, in some instances the use of inappropriate procedures has led to erroneous or inaccurate values for biochars in the scientific literature. Biochar: A Guide to Analytical Methods fills this gap and provides procedures and guidelines for routine and advanced characterisation of biochars. Written by experts, each chapter provides background to a technique or procedure, a stepwise guide to analyses, and includes data for biochars made from a range of feedstocks common to all presented methods. Discussion about the unique features, advantages and disadvantages of a particular technique is an explicit focus of this handbook for biochar analyses. Biochar is primarily intended for researchers, postgraduate students and practitioners who require knowledge of biochar properties. It will also serve as an important resource for researchers, industry and regulatory agencies dealing with biochar.

Digests of InterMag Walter de Gruyter GmbH & Co KG
 The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications. The first section of the book describes the historical development of inorganic photochemistry, along with the fundamentals related to this multidisciplinary scientific field. The main experimental

techniques employed in state-of-art studies are described in detail in the second section followed by a third section including theoretical investigations in the field. In the next three sections, the photophysical and photochemical properties of coordination compounds, supramolecular systems and inorganic semiconductors are summarized by experts on these materials. Finally, the application of photoactive inorganic compounds in key sectors of our society is highlighted. The sections cover applications in bioimaging and sensing, drug delivery and cancer therapy, solar energy conversion to electricity and fuels, organic synthesis, environmental remediation and optoelectronics among others. The chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research. This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia.

Spillover and Mobility of Species on Solid Surfaces CSIRO PUBLISHING

The book focuses on advanced characterization methods for thin-film solar cells that have proven their relevance both for academic and corporate photovoltaic research and development. After an introduction to thin-film photovoltaics, highly experienced experts report on device and materials characterization methods such as electroluminescence analysis, capacitance spectroscopy, and various microscopy methods. In the final part of the book simulation techniques are presented which are used for ab-initio calculations of relevant semiconductors and for device simulations in 1D, 2D and 3D. Building on a proven concept, this new edition also covers thermography, transient optoelectronic methods, and absorption and photocurrent spectroscopy.

Polymer Surface Modification John Wiley & Sons

Tailoring Surfaces *Modern Aspects of Bulk Crystal and Thin Film Preparation* BoD - Books on Demand

Biomedical Engineering Springer Science & Business Media

This book is a printed edition of the Special Issue "Surface Chemistry and Catalysis" that was published in *Catalysts*

Moderne Röntgenbeugung John Wiley & Sons

Invention of the solid-state laser has initiated the beginning of the laser era. Performance of solid-state lasers improved amazingly during five decades. Nowadays, solid-state lasers remain one of the most rapidly developing branches of laser science and become an increasingly important tool for modern technology. This book represents a selection of chapters exhibiting various investigation directions in the field of solid-state lasers and the cutting edge of related applications. The materials are contributed by leading researchers and each chapter represents a comprehensive study reflecting advances in modern laser physics. Considered topics are intended to meet the needs of both specialists in laser system design and those who use laser techniques in fundamental science and applied research. This book is the result of efforts of experts from different countries. I would like to acknowledge the authors for their contribution to the book. I also wish to acknowledge Vedran Kordic for indispensable technical assistance in the book preparation and publishing.

Wenn ein Buch und ein Kopf zusammenstoßen... Elsevier

This book highlights recent developments in fiberglass research and technology development, including high-performance fiberglass chemistry; in-depth glass network structure information derived from the-state-of-the-art spectroscopic measurements, molecular dynamics simulations, and their correlations with properties; fiber surface chemistry in relation to sizing chemistry - a critical part of composite performance; fiber process stability; fundamental understanding of the batch-to-melt

conversion processes and melt flow simulations; and environmental concerns such as energy efficiency and emission of volatile species, which are key to environmentally-friendly product manufacturing. The book aims to guide fiberglass researchers and manufacturers towards better awareness and, perhaps, provides potential options for global ecosystem management. More than 500 current references are included, which will enable researchers from fiber glass industry and research institution access to the most recent progress in fiberglass science and technology. Advances scientific understanding of fiberglass-forming processes, rising in popularity as a building material throughout the world; Describes the current advances in the structure and formation of fiber glass, beginning with chemistry, a wide range of characterizations, and processes, through to applications; Contains information on environmental aspects of fiberglass production, addressing energy consumption and emission.

Modern Aspects of Bulk Crystal and Thin Film Preparation Elsevier

This international collection of chapters comprehensively covers different aspects of procedures for speciation analysis at all levels starting from sample collection and storage, through sample preparation approaches to render the species chromatographable, principles of separation techniques used in speciation analysis, to the element specific detection. International renowned editors and contributors Includes coverage of electrochemical methods, biosensors for metal ions, radioisotope techniques and direct solid speciation techniques Provides information on quality assurance and risk assessment, and speciation-relevant legislation Each chapter is a stand-alone reference covering a given facet of elemental speciation analysis written by an expert in a given field with the volume as a whole providing an excellent introductory text and reference handbook.

Damage to Space Optics and Properties and Characteristics of Optical Glass Springer Nature

Handbook of Mineral Spectroscopy, Volume 1: X-ray Photoelectron Spectra presents a database of X-ray Photoelectron spectra showing both survey (with chemical analysis) and high-resolution spectra of more than 200 rock-forming and major ore minerals. XPS of minerals is a very powerful technique for analyzing not only the chemical composition of minerals - including, for other techniques, difficult elements such as F and Cl, but also the local environment of atoms in a crystal structure. The book includes a section on silicates and on non-silicates, and is further subdivided according to the normal mineral classes. Brings together and expands upon the limited information available on the XPS of minerals into one handbook Features 2,500 full color, X-ray Photoelectron survey and high-resolution Spectra for use by researchers in the lab and as a reference Includes the chemical information of each mineral Written by experts with more than 50 years of combined mineral spectroscopy experience

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Materials for Information Technology BoD - Books on Demand

Addressing global environmental problems, such as global warming is essential to global sustainability. Continued research leads to advancement in standard methods and produces new data. Carbon Dioxide Utilization for Global Sustainability: Proceedings of the 7th ICCDU (International Conference on Carbon Dioxide Utilization) reflects the most recent research results, as well as stimulating scientific discussions with new challenges in advancing the development of carbon dioxide utilization. Drawing on a wealth of information, this well structured book will benefit students, researchers and consultants looking to catch up on current developments in environmental and chemical engineering. * Provides comprehensive data on CO2 utilisation* Contains up-to-date

information, including recent research trends* Is written for students, researchers and consultants in environmental and chemical engineering

Metals Abstracts Springer-Verlag

These meetings, held every four years, bring together researchers from academia and industry and offer a forum for discussions on the chemistry involved in the preparation of industrial heterogeneous catalysts. Contributions focus on the aspects of catalyst preparation. Reports on physico-chemical characteristics of catalysts and catalytic performances are limited to correlations with the preparation parameters. Contains a collection of the papers presented at the workshop

Spectroscopy for Materials Characterization MDPI

Das Buch bietet einen umfassenden Überblick über die Anwendungen der Röntgenbeugung in Gebieten wie Werkstofftechnik, Metallurgie, Elektrotechnik, Maschinenbau sowie Mikro- und Nanotechnik. Es vermittelt die nötigen Grundkenntnisse der Röntgenbeugung fundiert und anschaulich. Dabei werden neue Techniken und Auswerteverfahren ebenso dargestellt wie altbekannte Methoden. Das Buch wurde vollständig überarbeitet und aktualisiert. Das Kapitel über spezielle Verfahren wurde neu geschrieben.

Elsevier

This book provides a theoretical background to X-ray photoelectron spectroscopy (XPS) and a practical guide to the analysis of the XPS spectra using the RxpsG software, a powerful tool for XPS analysis. Although there are several publications and books illustrating the theory behind XPS and the origin of the spectral feature, this book provides an additional practical introduction to the use of RxpsG. It illustrates how to use the RxpsG software to perform specific key operations, with figures and examples which readers can reproduce themselves. The book contains a list of theoretical sections explaining the appearance of the various spectral features (core-lines, Auger components, valence bands, loss features, etc.). They are accompanied by practical steps, so readers can learn how to analyze specific spectral features using the various functions of the RxpsG software. This book is a useful guide for researchers in physics, chemistry, and material science who are looking to begin using XPS, in addition to experienced researchers who want to learn how to use RxpsG. In the digital format, the spectral data and step-by-step indications are provided to reproduce the examples given in the textbook. RxpsG is a free software for the spectral analysis. Readers can find the installation information and download the package from <https://github.com/GSperanza/> website. RxpsG was developed mainly by Giorgio Speranza with the help of his colleague dr. Roberto Canteri working at Fondazione Bruno Kessler. Key Features: Simplifies the use of RxpsG, how it works, and its applications. Demonstrates RxpsG using a reproduction of the graphical interface of RxpsG, showing the steps needed to perform a specific task and the effect on the XPS spectra. Accessible to readers without any prior experience using the RxpsG software. Giorgio Speranza is Senior Researcher at Fondazione Bruno Kessler – Trento Italy, Associate Member of the Italian National Council of Research, and Associate Member of the Department of Industrial Engineering at the University of Trento, Italy.

Mineral-Water Interface Geochemistry Elsevier

"Spillover and Mobility of Species and Solid Surfaces" collects the papers which were presented at the Fifth International Conference Spillover, either as oral or poster contributions, as well as the summaries of the invited lectures. This congress and its publication in the Studies on Surface Science and Catalysis series follow the tradition of previous conferences on spillover, initiated in Lyon, 1983, and continued in Leipzig, 1989, Kyoto

1993 and Dalian, 1997. For the fifth conference, held in S.L. el Escorial (Madrid), the organising committee has attempted to compile representative contributions which illustrate the advances in understanding the spillover phenomenon since 1997. Spillover is a process taking place during the interface of gas reactant molecules (mainly hydrogen and oxygen) on solid surfaces. However, different contributions to the more general area of the chemistry at surfaces, related with the mobility and migration of species, diffusion through membranes, fuel cell catalysts, etc., have also been included. In fact the title of the present volume summarizes this attempt to extend the conference topics towards dynamics at surfaces. Among the 70 contributions received, the 56 accepted papers were selected on the basis of the reports of at least two international reviewers, according to standards comparable to those applied for other specialised journals. These papers are from 21 different countries.

Tissue Engineering Using Ceramics and Polymers CRC Press
Characterization of Nanoparticles: Measurement Processes for Nanoparticles surveys this fast growing field, including established methods for the physical and chemical characterization of nanoparticles. The book focuses on sample preparation issues (including potential pitfalls), with measurement procedures described in detail. In addition, the book explores data reduction, including the quantitative evaluation of the final result and its uncertainty of measurement. The results of published inter-laboratory comparisons are referred to, along with the availability of reference materials necessary for instrument calibration and method validation. The application of these methods are illustrated with practical examples on what is routine and what remains a challenge. In addition, this book summarizes promising methods still under development and analyzes the need for complementary methods to enhance the quality of nanoparticle characterization with solutions already in operation. Helps readers decide which nanocharacterization method is best for each measurement problem, including limitations, advantages and disadvantages Shows which nanocharacterization methods are best for different classes of nanomaterial Demonstrates the practical use of a method based on selected case studies

Advanced Characterization Techniques for Thin Film Solar Cells
BoD – Books on Demand

In recent years, scientific investigations and technological developments have resulted in many new results. Direct applications of quantum mechanical laws to system with length scales lower than 100 nm (nano) had opened a way to construction of new equipment in the field f.e. of nano- and optoelectronics. This book fits into this trend summarizing the results related to discoveries and technological applications of nanolayer in different fields of material science and even life science. The chapters are organized into three subfields: 1) Preparation and fabrications of nanolayers with different methods. 2) Description of recent achievements related to very important III-V heterostructures. 3) Descriptions of mechanical, thermal, optoelectronic, photocatalytic, and tribological properties of nanolayered structures. Some environmentally friendly applications are also treated in this book. The presented book provides a description of specific and original results obtained by authors. We hope that the volume will be of interest for a wide range of readers working in the field of material science.

Bioceramics BoD – Books on Demand

The topic of polymer surface modification is of tremendous contemporary interest because of its critical importance in many and varied technological applications where polymers are used.

Currently there is brisk research activity in unraveling the mechanisms of surface modification and finding ways to prolong the life of surface treatment. Also there is acute interest and need to devise new, improved and economical means to modify polymer surfaces. This book is divided into three parts as follows: Part 1: Surface Modification Techniques; Part 2: Interfacial Aspects and Adhesion; Part 3: General Papers. The topics covered include: various techniques for surface modification including plasma (both vacuum and atmospheric pressure), ozone, photografting, UV photo-oxidation, laser, use of charged particles and others for a variety of polymers; longevity of surface treatment; hydrophobic recovery; fabrication of high-density polymer nano-dots; immobilization of organometallic catalysts on textile carrier materials; polymer membrane antifouling properties; electroless metallization of polymers; effects of surface modification on interfacial shear strength of composites, cord/rubber adhesion, adhesion of UV-curable coatings and attachment of hyperbranched polymers; plasma polymerization; block copolymers; application of plasma technology in decontamination of heat-sensitive polymer surfaces. In essence this book reflects the current state-of-the-knowledge in the arena and represents the work of many renowned scientists and technologists. It should be of interest to anyone with a desire or need to learn the latest R&D activity in this domain and the information contained here should be very valuable in deciding the optimum surface modification technique for his/her particular requirements.

JJAP Springer Nature

Volume 23 of Reviews in Mineralogy and accompanying MSA short course covers chemical reactions that take place at mineral-water interfaces. We believe that this book describes most of the important concepts and contributions that have driven mineral-water interface geochemistry to its present state. We begin in Chapter 1 with examples of the global importance of mineral-water interface reactions and a brief review of the contents of the entire book. Thereafter, we have divided the book

into four sections, including atomistic approaches (Chapters 2- 3), adsorption (Chapters 4-8), precipitation and dissolution (Chapters 9-11), and oxidation-reduction reactions (Chapters 11-14).

Surface Analysis by Electron Spectroscopy Springer

SPECTROSCOPY FOR MATERIALS CHARACTERIZATION Learn foundational and advanced spectroscopy techniques from leading researchers in physics, chemistry, surface science, and nanoscience In Spectroscopy for Materials Characterization, accomplished researcher Simonpietro Agnello delivers a practical and accessible compilation of various spectroscopy techniques taught and used to today. The book offers a wide-ranging approach taught by leading researchers working in physics, chemistry, surface science, and nanoscience. It is ideal for both new students and advanced researchers studying and working with spectroscopy. Topics such as confocal and two photon spectroscopy, as well as infrared absorption and Raman and micro-Raman spectroscopy, are discussed, as are thermally stimulated luminescence and spectroscopic studies of radiation effects on optical materials. Each chapter includes a basic introduction to the theory necessary to understand a specific technique, details about the characteristic instrumental features and apparatuses used, including tips for the appropriate arrangement of a typical experiment, and a reproducible case study that shows the discussed techniques used in a real laboratory. Readers will benefit from the inclusion of: Complete and practical case studies at the conclusion of each chapter to highlight the concepts and techniques discussed in the material Citations of additional resources ideal for further study A thorough introduction to the basic aspects of radiation matter interaction in the visible-ultraviolet range and the fundamentals of absorption and emission A rigorous exploration of time resolved spectroscopy at the nanosecond and femtosecond intervals Perfect for Master and Ph.D. students and researchers in physics, chemistry, engineering, and biology, Spectroscopy for Materials Characterization will also earn a place in the libraries of materials science researchers and students seeking a one-stop reference to basic and advanced spectroscopy techniques.

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