



Semiconductor Photoelectrochemistry

John H. Moore, Nicholas D. Spencer



Semiconductor Photoelectrochemistry:

Semiconductor Photoelectrochemistry A. Martin Buoncristiani, 1983 **Semiconductor Photoelectrochemistry** Yuri Pleskov, 2012-06-02 Interest in semiconductor electrochemistry has expanded rapidly in the past few years spurred on by the search for economic methods for solar energy conversion Semiconductor electrochemistry and photoelectrochemistry is not however restricted to this single area of application Over the same period there have been many interesting and exciting developments in other areas of semiconductor electrochemistry including the use of laser etching electroreflectance studies and radiation electrochemistry All of these areas are among those covered by Pleskov and Gurevich in this book Their text is a comprehensive study of the electrochemistry and photoelectrochemistry of semiconductors and as such should prove a worthy successor to *Electrochemistry of Semiconductors* by Myamlin and Pleskov which since its publication in 1967 has established itself as a standard reference text for workers in this field In editing the English translation of the present text I have at all times attempted to maintain a clear concise style while at the same time remaining true to the arguments and ideas of the authors I hope that I have succeeded in this endeavor and I hope that this book will be welcomed by experts and beginners alike in the expanding area of semiconductor electrochemistry **Semiconductor Photoelectrochemistry** Yuri Pleskov, 2014-05-14 Interest in semiconductor electrochemistry has expanded rapidly in the past few years spurred on by the search for economic methods for solar energy conversion Semiconductor electrochemistry and photoelectrochemistry is not however restricted to this single area of application Over the same period there have been many interesting and exciting developments in other areas of semiconductor electrochemistry including the use of laser etching electroreflectance studies and radiation electrochemistry All of these areas are among those covered by Pleskov and Gurevich in this book Their text is a comprehensive study of the electrochemistry and photoelectrochemistry of semiconductors and as such should prove a worthy successor to *Electrochemistry of Semiconductors* by Myamlin and Pleskov which since its publication in 1967 has established itself as a standard reference text for workers in this field In editing the English translation of the present text I have at all times attempted to maintain a clear concise style while at the same time remaining true to the arguments and ideas of the authors I hope that I have succeeded in this endeavor and I hope that this book will be welcomed by experts and beginners alike in the expanding area of semiconductor electrochemistry Photochemistry and Photophysics Jan F. Rabek, 1991-04-23 Photochemistry and Photophysics is a multi volume set that presents a critical review of new developments that have occurred in the inorganic organic atmospheric environmental material bio and polymer fields of photochemistry and photophysics over the last decade Specific topics covered in Volume III include photochemical processes at semiconductors photoluminescence probes of porous solids photoluminescence probes of polymer structures and photomodification of cell membranes Topics covered in Volume IV include magnetic fields in photochemistry heterogeneous photocatalysis by semiconductor powders hydrophobic and hydrophilic effects on photochemical and photophysical

processes and photoinitiators for free radical polymerization The book provides essential information for students and researchers in photochemistry and photophysics

Photoelectrochemical Generation of Fuels Anirban Das, Gyandshwar Kumar Rao, Kasinath Ojha, 2022-10-31 Photoelectrochemical processes due to the symbiosis of photochemical and electrochemical processes result in unique reaction pathways and products This technique catalysed by nanomaterials is extensively used to harness sunlight for production of fuels and chemical feedstocks This book explains the basic concepts of photoelectrochemistry as well as their application in the generation of solar fuels from water CO₂ and N₂ as feedstocks It also contains standard methodologies and benchmarks of fuel production including current state of the art in nanocatalysts as well as their mechanism of action This book Explores fundamentals and real time applications of photoelectrochemistry in fuel generation Reviews basic theory and best known catalysts and best conditions processes for fuel generation in each of the chapters Covers standard methodologies processes and limitations for large scale applications Focusses on sustainable production of fuels from renewable energy and resources This book aims at graduate students researchers in chemical energy and materials engineering

Environmental Oriented Electrochemistry C.A.C. Sequeira, 1994-06-06 This book concentrates on the electrochemistry environment relationship including among others chapters on design and operation of electrochemical reactors and separators process simulation development and scale up optimization and control of electrochemical processes applied to environmental problems also including economic analysis description of unique current and future applications in addition to basic research into developing new technologies It is hoped that this volume will be considered interesting and extremely timely to specialists in electrochemistry and environmental sciences

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Photoelectrochemistry and Photovoltaics of Layered Semiconductors A. Aruchamy, 2013-03-13 This volume aims at bringing together the results of extensive research done during the last fifteen years on the interfacial photoelectronic properties of the inorganic layered semiconducting materials mainly in relation to solar energy conversion Significant contributions have been made both on the fundamental aspects of interface characteristics and on the suitability of the layered materials in photoelectrochemical semiconductor electrolyte junctions and in solid state photovoltaic Schottky and p n junctions cells New insights into the physical and chemical characteristics of the contact surfaces have been gained and many new applications of these materials have been revealed In particular the basal plane surface of the layered materials shows low chemical reactivity and specific electronic behaviour with respect to isotropic solids In electrochemical systems the inert nature of these surfaces characterized by saturated chemical bonds has been recognized from studies on charge transfer reactions and catalysis In addition studies on the role of the d band electronic transitions and the dynamics of the photogenerated charge carriers in the relative stability of the photoelectrodes of the transition metal dichalcogenides have deepened the understanding of the interfacial photoreactions Transition metal layered compounds are also recognized as ideal model compounds for the studies Involving surfaces photoreactions

adsorption phenomena and catalysis scanning tunneling microscopy and spectroscopy and epitaxial growth of thin films Recently quantum size effects have been investigated in layered semiconductor colloids Semiconductor Photocatalysis

Horst Kisch, 2015-04-20 Focusing on the basic principles of semiconductor photocatalysis this book also gives a brief introduction to photochemistry photoelectrochemistry and homogeneous photocatalysis In addition the author one of the leading authorities in the field presents important environmental and practical aspects A valuable one stop source for all chemists material scientists and physicists working in this area as well as novice researchers entering semiconductor photocatalysis **Photoelectrochemical Engineering for Solar Harvesting** Samrana Kazim, Muhammad Nawaz

Tahir, Shahzada Ahmad, Sanjay Mathur, 2024-06-24 Photoelectrochemical Engineering for Solar Harvesting provides an up to date appraisal of the photon engineering of innovative catalysts for solar energy harvesting Sunlight driven fuel synthesis is the most sustainable and potentially economical option for producing energy vectors through water splitting Thus this book focuses on the design of photocatalysts and water oxidation catalysts as artificial photosynthesis and hydrogen fuel production via water oxidation in place of fossil fuels are two promising approaches towards renewable energy The book critically analyzes the overall progress potential challenges and the possibility of industrialization of new catalysts in the near future The primary emphasis of the discussion is on experimental approaches from materials synthesis to device applications however there will also be some introduction to relevant photochemistry concepts Photoelectrochemical Engineering for Solar Harvesting is suitable for materials scientists and chemists who through the use of photonics are in continuous pursuit of improving the efficiencies of different devices used to capture solar energy for the generation of sustainable fuel Covers design of innovative energy materials such as photocatalysts and water oxidation catalysts for solar energy harvesting Reviews briefly computational and theoretical approaches before providing comprehensive overview of experimental directions Provides information to guide photon and photoelectrochemical engineering of catalysts for solar application

Electrochemical Impedance Spectroscopy And Related Techniques: From Basics To Advanced Applications

Laurence M Peter, 2023-12-14 This book begins by introducing the basic concepts of impedance to non specialist readers who may have only an elementary knowledge of physics and mathematics Mathematical concepts are explained clearly at appropriate points in a series of Theory Notes Subsequent chapters cover RCL resistor capacitor inductor circuits before developing the key ideas behind the application of impedance spectroscopy to electrochemical systems Circuit elements used to model electron transfer double layer charging and diffusion are described in detail along with Kramers Kronig testing of experimental data The book explains how potentiostats and frequency response analyzers work and evaluates a wealth of experimental data obtained either during the annual Bath impedance courses or in the laboratories of the author and his colleagues Topics covered include not only conventional electrochemical systems such as the rotating disc electrode and ultramicroelectrodes but also unconventional solar cells and the application of frequency resolved techniques in

spectroelectrochemistry Finally the last two chapters introduce techniques based on modulation of light intensity rather than voltage or current The book concludes with worked answers to the problems set out in earlier chapters

Photoelectrochemical Solar Conversion Systems Andrés G. Muñoz, 2012-11-12 Providing new insights into the molecular and electronic processes involved in the conversion of sunlight into chemical products Photoelectrochemical Solar Conversion Systems Molecular and Electronic Aspects begins with an historical overview and a survey of recent developments in the electrochemistry of semiconductors and spectroscopic techniques It then provides a comprehensive introduction to the science of conversion cells reviews current issues and potential directions and covers a wide range of materials from organic to inorganic cells Employing a tutorial organization with balanced coverage of electrochemistry and solar energy conversion this book covers The conversion of sunlight into chemical energy and different actual conversion concepts Electrochemical methods for the construction and characterization of electrolyte metal oxide semiconductor contacts EMOS in the nanodimensions the so called nano emitter concept including the electrochemical formation of metal clusters of catalytic metals and the formation of passivating layers by anodization The fundamentals of electrocatalysis with emphasis on the hydrogen evolution reaction and the electrochemical CO₂ reduction Classical and quantum mechanical theories of electron transfer reactions in metal electrolyte interfaces and their relation with surface electronics The physicochemical characterization of the model system Si/SiO_x/metal electrolyte by means of modern electrochemical surface and spectroscopic methods Improvements of conversion efficiency by means of optical effects for example the generation of surface plasmons by nano dimensioned arrangements of optically active metals *On Solar Hydrogen and Nanotechnology* Lionel Vayssieres, 2010-01-26 More energy from the sun strikes Earth in an hour than is consumed by humans in an entire year Efficiently harnessing solar power for sustainable generation of hydrogen requires low cost purpose built functional materials combined with inexpensive large scale manufacturing methods These issues are comprehensively addressed in *On Solar Hydrogen Nanotechnology* an authoritative interdisciplinary source of fundamental and applied knowledge in all areas related to solar hydrogen Written by leading experts the book emphasizes state of the art materials and characterization techniques as well as the impact of nanotechnology on this cutting edge field Addresses the current status and prospects of solar hydrogen including major achievements performance benchmarks technological limitations and crucial remaining challenges Covers the latest advances in fundamental understanding and development in photocatalytic reactions semiconductor nanostructures and heterostructures quantum confinement effects device fabrication modeling simulation and characterization techniques as they pertain to solar generation of hydrogen Assesses and establishes the present and future role of solar hydrogen in the hydrogen economy Contains numerous graphics to illustrate concepts techniques and research results *On Solar Hydrogen Nanotechnology* is an essential reference for materials scientists physical and inorganic chemists electrochemists physicists and engineers carrying out research on solar energy photocatalysis or semiconducting

nanomaterials both in academia and industry It is also an invaluable resource for graduate students and postdoctoral researchers as well as business professionals and consultants with an interest in renewable energy

Encyclopedia of Chemical Physics and Physical Chemistry John H. Moore, Nicholas D. Spencer, 2023-07-03 The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections FUNDAMENTALS the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text METHODS the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials APPLICATIONS specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail

Encyclopedia of Electrochemical Power Sources Jürgen Garche, Chris K. Dyer, Patrick T. Moseley, Zempachi Ogumi, David A. J. Rand, Bruno Scrosati, 2013-05-20 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With a focus on the environmental and economic impact of electrochemical power sources this five volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates nearly 350 articles with timely coverage of such topics as environmental and sustainability considerations

Applied Electrochemistry Krystyna Jackowska, Paweł Krysiński, 2024-08-19 This book introduces the main aspects of modern applied electrochemistry Starting with the basics of thermodynamic background structure of interfaces and selected techniques used in analytical and material chemistry the authors address the principles

of electrochemistry in material science corrosion electrocatalysis electrodeposition energy storage and conversion The application of nanostructured materials in these processes as well as interfacing of electrochemistry with biology and medicine is discussed The final part of the book is devoted to photoelectrochemistry and solar energy conversion in photoelectrochemical cells of various types The goal of this book is to show that electrochemistry has many applications not only for understanding of various phenomena in nowadays life but also in practical devices and can stimulate new science enabled technologies nourishing leaps from bench top to large scale industries providing also means for protecting our environment Creates a snapshot of the most important problems in applied electrochemistry and guides how to solve them Gives an overview of the processes running during corrosion electrodeposition and electrocatalysis Focuses mainly on graduate students and those scientists who want to get a solid background knowledge of applied electrochemistry

Electrochemistry of Metal Chalcogenides Mirtat Bouroushian, 2010-04-23 The author provides a unified account of the electrochemical material science of metal chalcogenide MCh compounds and alloys with regard to their synthesis processing and applications Starting with the chemical fundamentals of the chalcogens and their major compounds the initial part of the book includes a systematic description of the MCh solids on the basis of the Periodic Table in terms of their structures and key properties This is followed by a general discussion on the electrochemistry of chalcogen species and the principles underlying the electrochemical formation of inorganic compounds alloys The core of the book offers an insight into available experimental results and inferences regarding the electrochemical preparation and microstructural control of conventional and novel MCh structures It also aims to survey their photoelectrochemistry both from a material oriented point of view and as connected to specific processes such as photocatalysis and solar energy conversion Finally the book illustrates the relevance of MCh materials to various applications of electrochemical interest such as electro catalysis in fuel cells energy storage with intercalation electrodes and ion sensing Photoelectrochemical Water Splitting Hans-Joachim

Lewerenz, Laurie Peter, Laurence M. Peter, 2013 There has been a resurgence of interest in light induced water splitting as the search for storable carbon neutral energy becomes more urgent Although the history of the basic idea dates back more than four decades efficient economical and stable integrated devices have yet to be realized In the continuing quest for such devices the field of photoelectrochemistry is entering a new phase where the extraordinary interdisciplinary of the research and development efforts are opening new avenues This aspect of current research effort is reflected in the chapters of this book which encompass present thinking in the various disciplines such as materials science photo electrochemistry and interfaces that can contribute to realization of viable solar fuel generators This book presents a blend of the background science and recent advances in the field of photoelectrochemical water splitting and includes aspects that point towards medium to long term future realization The content of the book goes beyond the more traditional approaches to the subject by including topics such as novel excitation energy processes that have only been realized so far in advanced photonics The

comprehensive overview of current activities and development horizons provided by the impressive collection of internationally renowned authors therefore represents a unique reflection of current thinking regarding water splitting by light

The Porphyrin Handbook Karl Kadish, Roger Guilard, Kevin M. Smith, 2012-12-02 The Porphyrin Handbook Volume 16 Phthalocyanines Spectroscopic and Electrochemical Characterization provides information pertinent to every aspect of the chemistry synthesis spectroscopy and structure of phthalocyanines This book examines the biology and medical implications of porphyrin systems Organized into five chapters this volume begins with an overview of the photophysical properties of phthalocyanines that are important in relation to photosensitizers in photodynamic therapy photoconductor solar cells and artificial photosynthesis This text then describe how the data obtained from magnetic circular dichroism spectroscopy has provided the critical information required to describe the excited and ground state degeneracies of main group metallophthalocyanines complexes Other chapters consider the electrocatalysis by electrodes modified with phthalocyanine sensors and complexes This book discusses as well the properties of phthalocyanines and of their complexes The final chapter deals with the experiments with organic pigment thin films This book is a valuable resource for research scientists engineers and clinicians

Photoelectrochemical Solar Fuel Production Sixto Giménez, Juan Bisquert, 2016-04-29 This book explores the conversion for solar energy into renewable liquid fuels through electrochemical reactions The first section of the book is devoted to the theoretical fundamentals of solar fuels production focusing on the surface properties of semiconductor materials in contact with aqueous solutions and the reaction mechanisms The second section describes a collection of current relevant characterization techniques which provide essential information of the band structure of the semiconductors and carrier dynamics at the interface semiconductor The third and last section comprises the most recent developments in materials and engineered structures to optimize the performance of solar to fuel conversion devices

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