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Clean Hydrogen Production Methods



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Zhebo Chen,Huyen N. Dinh,Eric Miller



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Clean Hydrogen Production Methods Sushant Kumar, 2014-12-27 This brief covers novel techniques for clean hydrogen production which primarily involve sodium hydroxide as an essential ingredient to the existing major hydrogen production technologies Interestingly sodium hydroxide plays different roles and can act as a catalyst reactant promoter or even a precursor The inclusion of sodium hydroxide makes these processes both kinetically and thermodynamically favorable In addition possibilities to produce cleaner hydrogen in terms of carbon emissions are described Through modifications of steam methane reformation methods and coal gasification processes from fossil as well as non fossil energy sources the carbon dioxide emissions of these established ways to produce hydrogen can significantly be reduced This brief is aimed at those who are interested in expanding their knowledge on novel techniques and materials to produce clean hydrogen and capture carbon dioxide at a large scale The detailed thermodynamic analysis experimental findings and critical analysis of such techniques are well discussed in this brief Therefore this book will be of great interest and use to students engineers and researchers involved in developing the hydrogen economy as well as mitigating carbon dioxide emissions at a large scale

EU Islands and the Clean Energy Transition Gabriel Winter-Althaus, Antonio Pulido-Alonso, Lourdes Trujillo, Enrique Rosales-Asensio, 2023-01-25 This book explains the challenges and barriers of island energy systems in the European Union It reviews the research projects carried out to date and proposes a new feasible scheme that could be advantageous to many isolated energy systems The book contains a thorough literature review to ensure the originality of its ideas It provides a clear insight of the opportunities and difficulties facing EU island energy systems

The Role of Clean Coal Technologies in Energy Transformation and Energy Security Aurelia Rybak, Aleksandra Rybak, 2025-01-02 This book presents the latest achievements in the field of clean coal technologies and shows how these innovations contribute to environmental protection and ensure stability of energy supplies The book describes how clean coal technologies can revolutionize our energy future From advanced mining methods to modern energy storage solutions this book is a source of knowledge about sustainable development and technological innovation

Photoelectrochemical Water Splitting Zhebo Chen, Huyen N. Dinh, Eric Miller, 2013-08-28 This book outlines many of the techniques involved in materials development and characterization for photoelectrochemical PEC for example proper metrics for describing material performance how to assemble testing cells and prepare materials for assessment of their properties and how to perform the experimental measurements needed to achieve reliable results towards better scientific understanding For each technique proper procedure benefits limitations and data interpretation are discussed Consolidating this information in a short accessible and easy to read reference guide will allow researchers to more rapidly immerse themselves into PEC research and also better compare their results against those of other researchers to better advance materials development This book serves as a how to guide for researchers engaged in or interested in engaging in the field of photoelectrochemical PEC water splitting PEC

water splitting is a rapidly growing field of research in which the goal is to develop materials which can absorb the energy from sunlight to drive electrochemical hydrogen production from the splitting of water. The substantial complexity in the scientific understanding and experimental protocols needed to sufficiently pursue accurate and reliable materials development means that a large need exists to consolidate and standardize the most common methods utilized by researchers in this field.

Marine Bioenergy Se-Kwon Kim, Choul-Gyun Lee, 2015-05-21. *Marine Bioenergy Trends and Developments* features the latest findings of leading scientists from around the world. Addressing the key aspects of marine bioenergy, this state-of-the-art text offers an introduction to marine bioenergy, explores marine algae as a source of bioenergy, describes biotechnological techniques for biofuel production, and explains the

Advances in Chemical, Bio and Environmental Engineering Jatinder Kumar Ratan, Deepak Sahu, Nitin Naresh Pandhare, Anjireddy Bhavanam, 2022-05-11. This book focuses on the state-of-the-art research, development, and commercial prospective of recent advances in chemical sciences. The innovative work in the field of Environmental Engineering, Biochemical Engineering, Chemical Engineering, Nanotechnology, Environment Impact Assessment, Green Technologies. The contents in this book cover various design concepts and control and optimization for applications in Chemical, Bio, and Environmental Engineering, manufacturing, Physics, Chemistry, and Biological sciences. This book will be a useful resource for researchers, academicians, as well as professionals interested in the highly interdisciplinary field of Chemical, Bio, and Environmental Engineering.

Plasmonics for Hydrogen Energy Katsuaki Tanabe, 2021-10-13. This book provides an overview of the fundamentals of plasmonic field enhancement phenomena and the recent advancements in the field of hydrogen energy technologies that utilize plasmonics for their performance enhancement. Hydrogen energy is currently a representative clean energy without polluting or greenhouse emission in its use. However, industrial production of hydrogen molecules or other usable hydrogen-containing molecules is required for the use of hydrogen energy. It is also important to produce hydrogen in clean, renewable manners to contribute to the solution of the environmental problems such as atmospheric pollution and global warming and of the depletion of energy resources. For the widespread use of hydrogen energy, technical developments, particularly for hydrogen production and storage, are highly sought after. Free electrons in metals, particularly around metal surfaces or interfaces with dielectric materials, exhibit a strong interaction with electromagnetic fields or light in the form of collective oscillation named surface plasmons. The electromagnetic field intensity around subwavelength size metal particles can be highly localized due to the coupling between the incident photons and collective oscillation of free electrons at the metal surface, resulting in focusing of electromagnetic energy density or, namely, local field enhancement.

Sustainable Thermal Power Resources Through Future Engineering Shaharin Anwar Sulaiman, 2018-11-03. This book presents recent research in the field of nonconventional and renewable energy and energy efficiency in the context of thermal power. It addresses energy efficiency and environmental issues that are critical in the production of thermal power and also examines various applications.

especially air conditioning internal combustion engines and solar electric power plants *Computational Approaches in Chlamydomonas reinhardtii for Effectual Bio-hydrogen Production* Pratyosh Shukla, M.V.K. Karthik, 2015-04-23 This book describes the feasibility of using molecular dynamics as a screening technique to identify the stability of HydA1 and PetF interactions Structure based computational approaches are necessary to recognize and characterize protein protein complexes and their functions It introduces the idea that for specific proteins homology modeling is the most effective technique and that docking algorithms are an increasingly powerful tool for providing a detailed explanation of such interactions This book is a useful source of information on biomass based biofuels for researchers in the field of bio hydrogen and bioinformatics techniques Biofuel and bioenergy produced from unicellular microalgae Chlamydomonas reinhardtii is a clean energy source and providing information about functional optimization in HydA1 and PetF interactions will help researchers to adopt swift screening methods to identify key protein complexes and their functions The book also provides an introduction to hydrogenases and associated Chlamydomonas reinhardtii which is a useful model microorganism for research on biofuel production The book focuses on the in silico methods such as phylogenetic studies homology modeling molecular docking electrostatic studies and conformational analysis which have the potential to become the most cost effective methods for bio fuel production This book provides a valuable resource to senior undergraduate and graduate students researchers professionals and other interested individuals or groups working in the area of bioenergy with special reference to microalgal biofuel **Handbook of Biomass** Sabu Thomas, Mahesh Hosur, Daniel Pasquini, Cintil Jose Chirayil, 2024-05-31 This handbook constitutes state of the art research covering topics such as chemical constituents of biomass their specific properties characterization and different applications The contents also discuss challenges and issues involved in its applications This volume brings together a number of biomass derived potential renewable elements and its circular economy approach in one place The content includes industrial applications and fills the gap in laboratory research works to practical applications in related industries The book gives an insight towards the circular economy approach by the biomass different gross morphologies of biomasses and the valuable chemical constituents that can be derived from the biomass and moreover the potential applications of all those constituents It enables researchers and scientists to get informed of the designs to improve existing utilization of biomass in an efficient manner and deliver better products at lower cost The volume is useful reference for professionals researchers industrial practitioners graduate students and senior undergraduates in the fields of polymer science bioscience and bioengineering It also provides an in depth reference for biomass processors and fabricators and for industry sectors utilizing biomass such as packaging sensors film manufacturers medical device manufacturers and biomedical engineers

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