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Sushant Kumar

Clean Hydrogen Production Methods



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Clean Hydrogen Production Methods Springerbriefs In Energy

**Sabu Thomas, Mahesh Hosur, Daniel
Pasquini, Cintil Jose Chirayil**



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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

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

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

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

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

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 Explains th

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 Bio chemical 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 useful resource for researchers academicians as well as professionals interested in the highly interdisciplinary field of Chemical Bio and Environmental Engineering

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

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

The National Clean Energy Fund of India Rita Pandey, Sanjay Bali, Nandita Mongia, 2014-07-15 The National Clean Energy Fund NCEF announced in the Government of India's Budget 2010-11 is seen as a major step in India's quest for energy security and reducing the carbon intensity of energy Funding research and innovative projects in clean energy technologies and harnessing renewable energy sources to reduce dependence on fossil fuels constitute the objectives of the NCEF The NCEF's utilization of funds is considered to be rather low and disbursements poorly aligned with the fund's stated objectives thus posing a potential risk of diluting the focus of NCEF with adverse implications for the much needed research and innovation in the clean energy sector in India The book provides a detailed framework for promoting effective utilization and administration of NCEF To this effect it identifies the most promising avenues for utilization of NCEF resources for catalytic opportunities and deployment of new technologies It also identifies and prioritizes the specific energy sub sectors towards which the NCEF resources are directed It also makes suggestions for designing a smart monitoring and evaluation framework for the NCEF This work provides significant information for the government so that appropriate mid course corrections may be made in a timely manner This will also be useful in honing the strategic thinking on a suitable energy technology policy and an assessment of technology needs and other barriers to the clean energy sector in India

Metal Oxides/Chalcogenides and Composites Aneeya Kumar Samantara, Satyajit Ratha, 2019-08-09 This book covers the recent development of metal oxides hydroxides and their carbon composites for electrochemical oxidation of water in the production of hydrogen and oxygen as fuels It includes a detailed discussion on synthesis methodologies for the metal oxides hydroxides structural morphological characterizations and the key parameters Tafel plot Turnover frequency Faradic efficiency overpotential long cycle life etc needed to evaluate

the electrocatalytic activity of the materials. Additionally, the mechanism behind the electro-oxidation process is presented. Readers will find a comprehensive source on the close correlation between metal oxides, hydroxides, composites, and their properties and importance in the generation of hydrogen and oxygen from water. The depletion of fossil fuels from the earth's crust and related environmental issues such as climate change demand that we search for alternative energy resources to achieve some form of sustainable future. In this regard, much scientific research has been devoted to technologies such as solar cells, wind turbines, fuel cells, etc. Among them, fuel cells attract much attention because of their versatility and efficiency. In fuel cells, different fuels such as hydrogen, CO₂, alcohols, acids, methane, oxygen, air, etc. are used as the fuel, and catalysts are employed to produce a chemical reaction for generating electricity. Hence, it is very important to produce these fuels in an efficient, eco-friendly, and cost-effective manner. The electrochemical splitting of water is an environmentally friendly process to produce hydrogen, the greener fuel used in fuel cells, but the efficiencies of these hydrogen evolution reactions (cathodic half-reaction) are strongly dependent on the anodic half-reaction (oxygen evolution reaction), i.e., the better the anodic half, the better will be the cathodic reaction. Further, this oxygen evolution reaction depends on the types of active electrocatalysts used. Though many more synthetic approaches have been explored, and different electrocatalysts developed (oxide and hydroxide-based nanomaterials and composites with graphene, carbon nanotubes, etc.) show better performance. This may be due to the availability of more catalytic surface area and electro-active centers to carry out the catalysis process. **Green**

H₂ Transport through LH₂, NH₃ and LOHC Laura A. Pellegrini, Elvira Spatolisano, Federica Restelli, Giorgia De Guido, Alberto R. de Angelis, Andrea Lainati, 2024-07-31. This book explores the opportunities and challenges of hydrogen transport through different carriers, i.e., liquefied hydrogen, ammonia, toluene, and dibenzyltoluene. Each value chain analyzed includes renewable H₂ conversion to the carrier, storage of the hydrogenated carrier, its seaborne transport, reconversion of the carrier to produce H₂, and hydrogen distribution. The conversion and reconversion processes are the cost drivers of the whole value chain. These stages are investigated through an in-depth techno-economic assessment to highlight the critical issues and the need for further investigation. Low TRL alternatives are examined considering different H₂ applications (industrial and mobility sector), different costs of utilities, present and future scenarios, and different distances from the loading to the unloading terminal. All these scenarios are discussed and compared by means of the levelized cost method to understand which is the most cost-effective choice for each case study. As a result, H₂ application to the industrial sector shows the lowest costs, with ammonia being the best alternative for transporting and storing hydrogen in this case. Liquefied hydrogen is the most expensive H₂ carrier for the industrial application as a consequence of the high liquefaction costs, while holding promises for the mobility sector. *Microalgal Biomass for Bioenergy Applications* Jeyabalan Sangeetha, Devarajan Thangadurai, 2023-09-21. *Microalgal Biomass for Bioenergy Applications* presents current methods, practical applications, and research trends on diverse biofuel products from microalgae. This comprehensive book provides analyses of microalgal

biology chemical and molecular engineering techniques to scale up algal biomass processes and biofuels conversion and economic feasibility of value added bioenergy co products from a variety of microalgal strains Sections cover microalgal biomass availability suitability potential for biofuel applications scientific and methodical aspects of biomass harvesting sustainable and commercial applications of microalgal biofuels including LCA and the technological limitations and future perspectives on microalgal biofuels Each section offers in depth knowledge on the fundamental and practical aspects with reference to biofuels and bioenergy production from microalgae This book will be a valuable update for students researchers and industry professionals working in bioenergy and will be of interest to microbial and environmental scientists and phycologists interested in practical applications for microalgae Reviews all aspects of microalgal biodiversity and its structure in context of cultivation conservation harvesting and advantages over other conventional biomass Examines key steps and integrated approaches to enhance biofuels production from microalgae Explains the fundamentals practical aspects and scale up techniques for the production of biogas bioethanol biodiesel biohydrogen and biobutanol from microalgal biomass Includes breakthroughs recent advances and challenges in microalgal biomass processing as feedstock for renewable biofuels Analyzes chemical and molecular engineering techniques to scale up algal biomass processes and biofuels conversion and the economic feasibility of value added bioenergy co products from a variety of microalgal strains

Global Carbon Dioxide Recycling Koji Hashimoto, 2019-05-24 This brief describes the current critical situation of global warming and shows its solution by renewable energy use The author has long studied the development of new materials with chemical functions and is renowned as the first advocate of power to gas He established the technology to convert renewable energy to synthesized natural gas methane by electrolytic hydrogen generation using surplus electricity from renewable energy and subsequent methanation of carbon dioxide by reaction with hydrogen In the first part of this brief data on global warming and energy consumption are shown and analyzed from the author's keen point of view The second part introduces the author's research results on key materials for global carbon dioxide recycling and constructed pilot plants based on them Finally an evidence based solution to maintain sustainable development by using only renewable energy is described as a future prospect This book is useful not only for researchers and students studying chemical engineering materials or energy but also for general citizens who are interested in the global environment

Biorefineries Miriam Rabaçal, Ana F. Ferreira, Carla A. M. Silva, Mário Costa, 2017-03-25 This book addresses the potential of the transformation of biomass into a wide range of marketable products and examines the biological biochemical physical and thermal processing of biomass into products such as fuels power heat feeds chemicals and materials Respective chapters explore various topics including biomass characterization biomass pre conditioning and sustainability analysis aspects that are supplemented by a global overview of their implementation in current pilot bio refineries Providing a valuable resource to energy engineers chemical engineers biotechnologists and economists this book will also be of great interest to students and

policymakers **Innovations in Industrial Engineering IV** Jose Machado, *Key Themes in Energy Management* Akilu Yunusa-Kaltungo, 2024-07-29 This book provides a comprehensive global coverage of energy management as it relates mostly to developing countries In an era of unprecedented global population growth the demand for energy has reached staggering levels The United Nations reported an enormous 200% increase in population between 1950 and 2020 with projections indicating a further rise to 10.9 billion by 2100 As a direct consequence global primary energy usage has surged from 3701 Mtoe in 1965 to 13511 Mtoe in 2017 putting immense strain on existing energy sources If current growth rates persist these sources could be depleted within a mere 130 years To address this impending crisis governments worldwide have implemented regulations and incentives to promote energy conservation While numerous studies and publications have emerged within the field of energy management there remains a significant research gap particularly concerning the energy challenges faced by developing countries Existing edited books on energy related topics often narrowly focus on specific aspects hindering readers from gaining a holistic understanding of energy management challenges and potential solutions This book fills this void Recognizing the pivotal role these nations play in achieving sustainable development goals this book provides a wide ranging perspective on the trends challenges and potential solutions to energy crises in these regions It not only acknowledges the challenges faced by developing countries but also offers viable strategies to address them The editor leveraging his successful leadership experience in global academic endeavors including publishing a book on Occupational Safety Health practices during the COVID 19 era and coordination of multinational research projects is well positioned to bring together exceptional chapters from various countries His extensive network ensures the inclusion of diverse perspectives enriching the book's content and offering invaluable insights to readers Designed for a broad readership including energy industry organizations professionals researchers government bodies policymakers and students this book delves into a wide array of energy management issues By facilitating a comprehensive understanding of the subject it equips readers with the knowledge and tools necessary to navigate the complex landscape of energy management in the modern world *Carbon Fiber* Pratima Bajpai, 2020-11-25 Carbon Fiber Second Edition brings together available information on the production properties application and future of carbon fibers This book will be of interest to those involved in the investigation of carbon fiber carbon fiber manufacturing and users In addition the recycling of carbon fiber reinforced polymers and the manufacturing of composites from recycled carbon fiber reinforced polymers are discussed The book offers in depth coverage on the production of carbon fiber and the global carbon fiber market demand and major growth drivers Carbon structures from biowaste waste lignin and novel processes to obtain high purity lignin are presented along with future directions Provides thorough and in depth coverage of carbon fiber production Presents the global carbon fiber market demand and major growth drivers Covers carbon structures from biowaste and waste lignin Discusses novel process to obtain high purity lignin Includes discussions of future directions for the carbon fiber industry **Microbial**

Biostimulants for Sustainable Agriculture and Environmental Bioremediation Inamuddin, Charles Oluwaseun Adetunji, Mohd Imran Ahamed, Tariq Altalhi, 2022-06-29 Today the agriculture industry is confronted with simultaneous issues of how to fully embrace mass production of safer food in terms of both quality and quantity Most industries are concerned with avoiding significant levels of soil pollution and environmental threats as a result of the excessive and harmful use of synthetic products on crops Therefore there is a need to adopt sustainable technological innovations that can ensure the sustainability of agricultural production systems Microbial Biostimulants for Sustainable Agriculture and Environmental Bioremediation discusses the benefits challenges and practical applications of eco friendly biotechnological techniques using biostimulants derived from beneficial microorganisms The chapters cover the use of these organisms to increase crop production enhance soil fertility and maintain soil health create crop and plant tolerance to different abiotic stressors release required nutrients to the soil increase resistance to plant pathogens pests improve nutrient use efficiency of crops and rejuvenate polluted environments FEATURES Explores the physiological morpho anatomical and biochemical molecular plant rejoinders involved in stimulating crop productivity Provides information on the physiological cellular and molecular modes of action underlying microbial biostimulant interfaces Summarizes methods and approaches for executing microbial stimulant technology Outlines numerous environmental management and remediation strategies This book is an ideal resource for researchers engineers and academics working in soil science crop science water remediation microbiology and biotechnology

Biological Odour Treatment Pratima Bajpai, 2014-07-31 Showcasing the very latest technologies for neutralising the unpleasant and sometimes dangerous odours from industrial and waste management processes this Springer Brief in Environmental Sciences covers physical chemical and biological methods The volume includes modern biotechnological approaches now making it cost effective to tackle malodorous chemicals at very small concentrations The book reflects the fact that odour affects us in several ways which range from compromising our quality of life to causing respiratory and other unpleasant conditions and from depressing property values to severe health problems caused by the toxic stimulants of odours Innumerable industrial processes release malodorous and harmful vapours The human sense of smell can detect some noxious chemicals such as the sulphurous by products of paper manufacturing at concentrations of one part per billion This e book shows what has been achieved in combating offensive and harmful odours While conventional air pollution control technologies can treat a wide variety of pollutants at higher concentrations the chapters cover the more refined biological methods used to deal with odours and volatile organic compounds in low concentrations These include bio scrubbers and bio trickling filters Standing alongside its detailed discussion of the health impacts of total reduced sulphur compounds and the composition of paper pulp industry emissions this publication offers comprehensive and in depth treatment of some of the most potent anti odour technologies yet devised

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