



Recent developments in state-of-the-art hydrogen energy technologies – Review of hydrogen storage materials

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ABSTRACT

Hydrogen energy has been assessed as a clean and renewable energy source for future energy demand. For harnessing hydrogen energy to its fullest potential, storage is a key parameter. It is well known that important hydrogen storage characteristics are operating pressure-temperature of hydrogen, hydrogen storage capacity, hydrogen absorption-desorption kinetics and heat transfer in the hydride bed. Each application needs specific properties. Every class of hydrogen storage materials has a different set of hydrogenation characteristics. Hence, it is required to understand the properties of all hydrogen storage materials. The present review is focused on the state-of-the-art hydrogen storage materials including metal hydrides, magnesium-based materials, complex hydride systems, carbonaceous materials, metal organic frameworks, perovskites and materials and processes based on artificial intelligence. In each category of materials' discovery, hydrogen storage mechanism and reaction, crystal structure and recent progress have been discussed in detail. Together with the fundamental synthesis process, latest techniques of material tailoring like nanostructuring, nanoconfinement, catalyzing, alloying and functionalization have also been discussed. Hydrogen energy research has a promising potential to replace fossil fuels from energy uses, especially from automobile sector. In this context, efforts initiated worldwide for clean hydrogen production and its use via fuel cell in vehicles is much awaiting steps towards sustainable energy demand.

Abbreviations: IEA, International Energy Agency; CEM, Clean Energy Ministerial; MI, Mission Innovation; MT, Million Tons; IRENA, International Renewable Energy Agency; AEO, Annual Energy Outlook; US-DOE, United States Department of Energy; LCOE, Levelized Cost of Electricity; SMR, Steam Methane Reforming; kWh, Kilo Watt-hour; MOF, Metal Organic Frameworks; PCTO, Fuel Cell Technologies Office; AI, Artificial Intelligence; ML, Machine Learning; SWCNT, Single Wall Carbon Nanotube; MWCNT, Multiwall Carbon Nanotube; ANI, Artificial Narrow Intelligence; AGE, Artificial General Intelligence; HSA, Hydrogen Storage Alloys; IMC, Intermetallic Compounds; Pa, Pascal; MPa, Mega Pascals; Am, Atmosphere; BCC, Body Centered Cubic; SS, Solid Solution; Ni-MH, Nickel-Metal Hydride; P-C-T (or PCT), Pressure Composition Temperature; Wt% (or wt%), weight percentage; kJ, Kilo Joules; PEM, Proton Exchange Membrane; H₂/M, Hydrogen to metal ratio; CRMM, Controlled Reactive Mechanical Milling; HREM, High-Energy Ball Milling; NPs, Nanoparticles; PMMA, Poly(methyl methacrylate); CA, Carbon Aerogels; 2D and 3D, Two and Three Dimension; DFT, Density Functional Theory; RHC, Reactive Hydride Composite; K, Kelvin (Temperature scale); °C (or °C), Degree Celsius (Temperature scale); CC, Covalent Crystals; LOHC, Liquid Organic Hydrogen Carriers; MWCNT, Multiwall Nanotubes; GPa, GigaPascals; TM, Transition Metal; H-H, Hydrogen-Hydrogen; FCEV, Fuel Cell Electric Vehicle.

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Recent Developments In Hydrogen Technology

**Paul Medwell, Michael Evans, Shaun
Chan**



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Recent Developments in Hydrogen Technology, 1986 Recent developments in hydrogen technology Kenneth D. Williamson, 1986 **Advances in Cryogenic Engineering** Peter Kittel, 2012-12-06 The Albuquerque Convention Center was the venue for the 1993 Cryogenic Engineering Conference The meeting was held jointly with the International Cryogenic Materials Conference Walter F Stewart of Los Alamos National Laboratory was conference chairman Albuquerque is near Los Alamos National Laboratory which has been a significant contributor to the cryogenics community since the early days of the Manhattan Project Albuquerque is also the home of the Air Force s Phillips Laboratory which has a lead role in developing cryocoolers The program consisted of 322 CEC papers more than a 30% increase from CEC 91 and 20% more than CEC 89 This was the largest number of papers ever submitted to the CEC Of these 249 papers are published here in Volume 39 of *Advances in Cryogenic Engineering* Once again the volume is published in two books This volume includes a cumulative index for the CEC volumes from 1975 1993 volumes 21 23 25 27 29 31 33 35 37 and 39 of *Advances in Cryogenic Engineering* The first 20 volumes are indexed in Volume 20 A companion cumulative index for the ICMC volumes volumes 22 through 40 appears in Volume 40 This is my first volume as editor I would not have been able to have done it without the assistance of the many reviewers Especially appreciated was the instruction manual left me by the previous editor Ron Fast

Recent Developments in Power and Propulsion Applications Ashoke De, Ashwani K. Gupta, Akshai K. Runchal, Dibakar Rakshit, Abhijit Kushari, 2025-09-26 The primary focus of this contributed volume is on providing cutting edge developments in a number of critically important fields including energy combustion power propulsion environment using fossil fuels and the production and use of biofuels The availability of clean and sustainable energy is more crucial now than ever before for all areas of energy use in power mobility and propulsion In the future the energy used will only grow due to the increase in population and enhanced standards of living This book includes contributions from globally recognized specialists from various regions of the world They have provided the most recent advances in both basic and applied research on the creation of cleaner energy and its application for a variety of technologies from microscale energy conversion to supersonic and hypersonic propulsion powered by hydrocarbon fuels Clean and efficient energy conversion for various stationary and propulsion applications including hypersonic propulsion thermal management emission control and environmental issues for energy sustainability are amongst the challenges and opportunities followed for the specific applications In parallel some of the other applications include the combustion of fossil and biofuels clean energy production from low grade materials such as waste and biomass and alternative fuels via rigorous modeling and simulation with a focus on efficiency and environmental issues The present and future R D activities include specially designed technical tracks and contributions from internationally recognized technical experts that reveal different but complementary viewpoints on fuels combustion power and propulsion and air toxins The development and implementation of novel energy conversion technologies require solid fundamental

understanding as well as research and development efforts at different scales from bench to pilot to full scale We conjecture that for the foreseeable future hydrocarbon fuels will likely remain a major source of energy in all sectors of power transportation and propulsion with a slow but steady increase in renewable energy resources in the overall energy mix A multifaceted strategy is needed for the energy and environmental sustainability of all power and propulsion systems This includes creating and utilizing alternative and renewable fuels designing flexible fuel combustion systems that are simple to use with the new fuels and developing cutting edge eco friendly technologies to maximize the use of all types of gas liquid and solid fuels This book provides a wealth of knowledge as a reference for practicing engineers research engineers researchers and managers in labs and industry academic institutions graduate students and senior year undergraduates studying mechanical chemical aerospace energy and environmental and industrial engineering

Recent Developments in Energy and Environmental Engineering Rafid Al Khaddar,S. K. Singh,N. D. Kaushika,R. K. Tomar,S. K. Jain,2023-06-19 This book comprises select proceedings of the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2022 It discusses the latest topics related to energy and environmental engineering The topics covered include green and clean technologies zero energy buildings solar energy energy conservation and heat recovery solar architecture artificial intelligence for sustainable buildings climate change and plastic and air pollution This book is useful for researchers and professionals working in the area of civil engineering and energy and environmental engineering

Recent Trends in Fuel Cell Science and Technology S. Basu,2007-10-20 Fuel cell science and technology is evolving fast for the past two decades as it is thought to be an efficient way of transforming chemical energy of hydrogen rich compounds to electrical energy Although this idea of direct conversion of chemical energy to electrical energy was first demonstrated by Sir William Grove in 1839 using a fuel cell it was only in the middle of the twentieth century when Bacon s pioneering work led to the use of fuel cell in space missions The interest in commercialization of fuel cell for civilian use has caught up with government organizations and private corporations for the past decade on account of fluctuating oil prices and environmental concerns It is well known that the conventional fossil fuel which is a primary source of gasoline is not going to last more than a hundred years in the face of ever increasing demand in the developed and developing countries Although the reserves of natural gas coal and tar sands may last another two to three hundred years with the current rate of production their conversion is not efficient and pollution free Thus scientists all over the world have taken up fuel cell development work in their quest of solution to the energy crises looming largely on global population This book aims to script the present status of the rapidly developing field of fuel cell science and technology

Recent Developments in Microbial Technologies Ram Prasad,Vivek Kumar,Joginder Singh,Chandrama Prakash Upadhyaya,2020-12-07 This book focuses on the application of microorganisms in various aspects of life such as plant protection and improvement environmental remediation and the improvement of plant human health Various applications of microorganisms are examined in depth e g applied microbiology

in agriculture microbes in the environment the development of new microbial enzymes and microbes in human health In turn the book shares insights into the diverse microorganisms that have been explored and exploited in the development of various applications for agricultural improvements It also discusses the detection and exploitation of microorganisms in the diagnosis of human diseases which offer potential holistic approaches to health Presenting the latest information and findings on the applications of microbial biotechnology the book offers a valuable resource Recent Developments in Hydrogen Technology - Williamson Jr KD Ed,1986 **Progress in Combustion Diagnostics, Science and Technology** Paul Medwell,Michael Evans,Shaun Chan,2020-03-25 The role that combustion plays in the world s energy systems will continue to evolve with the changes in technological demands For example the challenges that we face today are more focused on the conservation of energy and addressing environmental concerns which together necessitate cleaner and more efficient combustion processes using a range of fuel sources This book includes contributions to highlight the recent progress in theory and experiments development and demonstration of technologies and systems involving combustion processes for the production storage use and conservation of energy Aviation Law: Recent Developments In Aviation Laws Gazala Noor,2024-09-17 Aviation law is a rapidly evolving field that addresses the regulatory operational and safety aspects of the aviation industry Recent Developments in Aviation Laws provides an in depth analysis of the latest changes and trends shaping this crucial area This book explores significant regulatory updates introduced by international bodies like the International Civil Aviation Organization ICAO and national aviation authorities aimed at enhancing safety security and environmental sustainability The book examines how aviation law is adapting to these changes ensuring the safe integration of new technologies into airspace Recent international agreements and national regulations reflect this shift aiming to make aviation more eco friendly The book also delves into passenger rights highlighting recent enhancements in compensation for delays disability accommodations and data privacy protections Globalization and international agreements continue to shape the legal landscape emphasizing the need for cooperation and harmonization of regulations across borders Recent Developments in Aviation Laws is an essential resource for legal professionals industry stakeholders and policymakers offering comprehensive insights into the current and future state of aviation law

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