

Nanoporous Materials for Energy and the Environment

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Nanoporous Materials For Energy And The Environment

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Nanoporous Materials For Energy And The Environment:

Nanoporous Materials for Energy and the Environment Gilbert Rios, Gabriele Centi, Nick Kanellopoulos, 2016-04-19 This book disseminates and discusses relevant best case examples and research practices that show how nanomaterial research and related engineering concepts may provide answers and viable solutions to a variety of socioeconomic issues and concerns The first section is dedicated to the development of new materials and their characterization The se

Nanocomposites-Advanced Materials for Energy and Environmental Aspects Mohammad Ehtisham Khan, Jeenat Aslam, Chandrabhan Verma, 2023-01-25 Nanocomposites Advanced Materials for Energy and Environmental Aspects provides a brief introduction to metal oxides The book then discusses novel fabrication methodologies and eco friendly methods for using a broad range of metal oxide based nanocomposites in innovative ways Key aspects include fundamental characteristics of environmentally sustainable fabrication of materials for solar power power generation and the textiles industries Commercialization and economic aspects that are currently of major significance are also discussed in detail The book represents an important information resource for material scientists and engineers to create the next generation of products and devices for energy and environmental applications Metal and metal oxide based nanocomposites are at the heart of some of the most exciting developments in the field of energy and environmental research They have exceptional properties and are utilized in electronic and environmental sensing devices for energy storage electrode materials fuel cells membranes and more Covers fabrication standard characterization and photocatalytic mechanism for a wide range of applications Includes broad ranging metal and metal oxide based applications covering environmental energy electronics oil gas water treatment and sensing Evaluates dye consumption in the textiles industries and the energy related research that will determine options for sustainable and transformational opportunities

Emerging Materials for Energy Conversion and Storage Kuan Yew Cheong, Giuliana Impellizzeri, Mariana Amorim Fraga, 2018-08-09 Emerging Materials for Energy Conversion and Storage presents the state of art of emerging materials for energy conversion technologies solar cells and fuel cells and energy storage technologies batteries supercapacitors and hydrogen storage The book is organized into five primary sections each with three chapters authored by worldwide experts in the fields of materials science physics chemistry and engineering It covers the fundamentals functionalities challenges and prospects of different classes of emerging materials such as wide bandgap semiconductors oxides carbon based nanostructures advanced ceramics chalcogenide nanostructures and flexible organic electronics nanomaterials The book is an important reference for students and researchers from academics but also industry interested in understanding the properties of emerging materials Explores the fundamentals challenges and prospects for the application of emerging materials in the development of energy conversion and storage devices Presents a discussion of solar cell and photovoltaic fuel cell battery electrode supercapacitor and hydrogen storage applications Includes notable examples of energy devices based on emerging materials to illustrate recent

advances in this field **Polymer-Based Advanced Functional Materials for Energy and Environmental Applications**

Nithin Kundachira Subramani, S. K. Nataraj, Chetankumar Patel, Sachhidananda Shivanna, 2022-01-01 Polymer based advanced functional materials are one of most sought after products of this global high performance material demand as polymer based materials guarantee both processing ease and mechanical flexibilities This volume provides a comprehensive and updated review of major innovations in the field of polymer based advanced functional materials which focuses on constructive knowledge on advanced multifunctional materials and their resultant techno commercial applications The contents aim at restricting the coverage to energy and environment related applications as the said two are the most emerging application domains of polymer based advanced functional materials It highlights the cutting edge and recent research findings of polymer based advanced functional materials in energy and environment sectors wherein each chapter focuses on a specific energy and environment related application of polymer based advanced functional materials their preparation technique nature enhancement achieved and allied factors This volume would be of great interest to researchers academicians and professionals involved in polymers chemistry energy and environmental research and other allied domains

Micro/Nano Materials for Clean Energy and Environment Zhongchao Tan, Qinghai Li, 2019-07-01 The Tsinghua University University of Waterloo Joint Research Center for Micro Nano Energy Environment Technology JCMEET is a platform It was established on Nov 11 2017 The Chairperson of University Council of Tsinghua University Dr Xu Chen and the President of the University of Waterloo Dr Feridun Hamdullahpur attended the opening ceremony and unveiled the nameplate for the joint research center on 29th of March 2018 The research center serves as a platform for researchers at both universities to conduct joint research in the targeted areas and to meet regularly for information exchange talent exchange and knowledge mobilization especially in the fields of micro nano energy and environmental technologies The center focuses on three main interests micro nano energy technology micro nano pollution control technology and relevant fundamental research In order to celebrate the first anniversary of the Joint Research Center we were invited to serve as the Guest Editors of this Special Issue of Materials focusing on the topic of micro nano materials for clean energy and environment It collects research papers from a broad range of topics related to micro nanostructured materials aimed at future energy resources low emission energy conversion energy storage energy efficiency improvement air emission control air monitoring air cleaning and many other related applications This Special Issue provides an opportunity and example for the international community to discuss how to actively address the energy and environment issues that we are facing **Materials for Sustainable Energy**

Storage at the Nanoscale Fabian Ifeanyichukwu Ezema, M Anusuya, Assumpta C Nwanya, 2023-07-21 The book Materials for Sustainable Energy Storage Devices at the Nanoscale anticipates covering all electrochemical energy storage devices such as supercapacitors lithium ion batteries LIBs and fuel cells transformation and enhancement materials for solar cells photocatalysis etc The focal objective of the book is to deliver stunning and current information to the materials application

at nanoscale to researchers and scientists in our contemporary time toward the enhancement of energy conversion and storage devices. However, the contents of the proposed book *Materials for Sustainable Energy Storage at the Nanoscale* will cover various fundamental principles and wide knowledge of different energy conversion and storage devices with respect to their advancement due to the emergence of nanoscale materials for sustainable storage devices. This book is targeted to be award winning as well as a reference book for researchers and scientists working on different types of nanoscale materials based energy storage and conversion devices. Features: Comprehensive overview of energy storage devices, an important field of interest for researchers worldwide; Explores the importance and growing impact of batteries and supercapacitors; Emphasizes the fundamental theories, electrochemical mechanism, and its computational view point and discusses recent developments in electrode designing based on nanomaterials, separators, and fabrication of advanced devices and their performances.

Encyclopedia of Renewable and Sustainable Materials, 2020-01-09. *Encyclopedia of Renewable and Sustainable Materials* Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable, recyclable, and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles, and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide (CO₂) emissions, manufacturing energy requirements, manufacturing costs, and waste. This book provides researchers, students, and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development, selection, and use of construction and manufacturing materials. Covers a broad range of topics not available elsewhere in one resource. Arranged thematically for ease of navigation. Discusses key features on processing, use, application, and the environmental benefits of renewable and sustainable materials. Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials.

Chemical Energy Storage Robert Schlögl, 2012-12-21. The use of regenerative energy in many primary forms leads to the necessity to store grid dimensions for maintaining continuous supply and enabling the replacement of fossil fuel systems. Chemical energy storage is one of the possibilities besides mechano-thermal and biological systems. This work starts with the more general aspects of chemical energy storage in the context of the geosphere and evolves to dealing with aspects of electrochemistry, catalysis, synthesis of catalysts, functional analysis of catalytic processes, and with the interface between electrochemistry and heterogeneous catalysis. Top notch experts provide a sound practical hands-on insight into the present status of energy conversion aimed primarily at the young emerging research front.

[Chemistry, a Sustainable Bridge from Waste to Materials for Energy and Environment](#) Francesca Deganello, Enrico Traversa, Ana C. Tavares, 2021-03-08.

Polymer-based Nanocomposites for Energy and Environmental Applications Mohammad Jawaid, Mohammad Mansoor Khan, 2018-01-03. *Polymer Based Nanocomposites for Energy and Environmental Applications* provides a comprehensive and updated review of major

innovations in the field of polymer based nanocomposites for energy and environmental applications. It covers properties and applications including the synthesis of polymer based nanocomposites from different sources and tactics on the efficacy and major challenges associated with successful scale up fabrication. The chapters provide cutting edge up to date research findings on the use of polymer based nanocomposites in energy and environmental applications while also detailing how to achieve materials characteristics and significant enhancements in physical chemical mechanical and thermal properties. It is an essential reference for future research in polymer based nanocomposites as topics such as sustainable recyclable and eco friendly methods for highly innovative and applied materials are current topics of importance. Covers a wide range of research on polymer based nanocomposites. Provides updates on the most relevant polymer based nanocomposites and their prodigious potential in the fields of energy and the environment. Demonstrates systematic approaches and investigations from the design synthesis characterization and applications of polymer based nanocomposites. Presents a useful reference and technical guide for university academics and postgraduate students. Masters and Ph D

Inorganic Materials for Energy, Medicine and Environmental Remediation Saravanan Rajendran, Mu. Naushad, Dai-Viet N. Vo, Eric Lichtfouse, 2021-11-25. This book presents concepts methods and applications of inorganic nanomaterials for energy applications such as fuel cells and batteries for environmental applications such as water purification and for medicinal applications such as cancer treatments. The founding father of nanotechnology Eric Drexler always communicated a unique vision in exploring new materials and creating advancements in molecular nanotechnology. He emphasized the potential advantages of smaller size higher efficiency and less needed resources for applications in energy environment and medicine. A higher surface to volume ratio of inorganic nanomaterials is a key property.

Emerging Nanostructured Materials for Energy and Environmental Science Saravanan Rajendran, Mu. Naushad, Kumar Raju, Rabah Boukherroub, 2019-02-07. This book provides the fundamental aspects of the diverse ranges of nanostructured materials 0D 1D 2D and 3D for energy and environmental applications in a comprehensive manner written by specialists who are at the forefront of research in the field of energy and environmental science. Experimental studies of nanomaterials for aforementioned applications are discussed along with their design fabrication and their applications with a specific focus on catalysis energy storage and conversion systems. This work also emphasizes the challenges of past developments and directions for further research. It also looks at details pertaining to the current ground breaking of nanotechnology and future perspectives with a multidisciplinary approach to energy and environmental science and informs readers about an efficient utilization of nanomaterials to deliver solutions for the public.

Technologies for Sustainability in Energy and the Environment Martin Mkandawire, Allen J. Britten, R. Chandra Devi, 2024-10-10. The focus of technological development has changed from sustaining life to improving the quality of life. This change is exerting excessive demand for fuel and resources. The consequences manifest as challenges to environmental and energy sustainability and to climate change. Thus further technological advancements need urgent re

focusing to save the earth from becoming uninhabitable This book looks specifically at the direction of technologies and research innovations including those just entering the market for abating rehabilitating and restoring degraded environments Scientific and engineering perspectives are presented on promising technologies for a sustaining environmental conditions which are cost effective and efficient with the potential to reach the most underprivileged world economies and b clean energy production which is either renewable or has low or zero carbon emissions This book is a must read for a diverse and interdisciplinary audience ranging from academics researchers industry professionals and advanced students

Inorganic Materials for Energy and Environmental Catalysis Qingyi Zeng,Lai Lyu,Chong-Chen Wang,Zhu Xiong,Suqing Wu,Shuaifei Zhao,2022-08-22

Advanced Electrochemical Materials and Devices for Clean Energy and Environment Zeba Khanam,Divesh Narayan Srivastava,Muhammad-Sadeeq Balogun Adetunji,2025-05-09 Advanced Electrochemical Materials and Devices for Clean Energy and Environment presents recent advancements revolutionary breakthroughs and unraveled challenges in the development of electrochemical materials and devices for energy and environmental applications The book discusses the latest trends in synthesis processing fabrication characterization and properties of materials In addition it highlights novel sustainable materials such as natural polysaccharides biochar plant waste animal waste other waste materials as promising substitutes for use in next generation electrochemical devices The book also demonstrates crossroads research where the electrochemical removal of pollutants can be coupled with the electrical energy production such as in biological fuel cells desalination batteries supercapacitors and other integrated devices This is a valuable reference for beginners researchers scientists and professionals from a variety of sectors including electrochemists chemical engineers environmental scientists materials scientists and energy researchers across academia and industry Features cross cutting research directions critical for meeting future energy needs and a sustainable environment Highlights hot topics on electrochemical materials and devices in a single platform for both academics and the industrial sector Introduces specific coverage on innovative engineered prototypes patents approved and commercialized devices for real applications

Nanocarbon-Inorganic Hybrids Dominik Eder,Robert Schlögl,2014-08-20 Nanocarbon Inorganic Hybrids is dedicated exclusively to the new family of functional materials covering a multidisciplinary research field that combines materials science chemistry and physics with nanotechnology and applied energy science It provides a concise introduction into fundamental principles of nanocarbons defines hybrids and composites explains the physics behind sustainability and illustrates requirements for successful implementation in energy applications It further reviews the current research on developing concepts for designing nanocarbon hybrids unravels mechanistic details of interfacial electron transfer processes and highlights future challenges and perspectives associated with exploiting these exciting new materials in commercial energy applications and beyond This comprehensively written book is indispensable for Master and PhD students seeking to become familiar with a modern field of knowledge driven material science as well as for senior

researchers and industrial staff scientists who explore the frontiers of knowledge

Design of Advanced Photocatalytic Materials for Energy and Environmental Applications Juan M. Coronado, Fernando Fresno, María D. Hernández-Alonso, Raquel Portela, 2013-05-27 Research for the development of more efficient photocatalysts has experienced an almost exponential growth since its popularization in early 1970 s Despite the advantages of the widely used TiO₂ the yield of the conversion of sun power into chemical energy that can be achieved with this material is limited prompting the research and development of a number of structural morphological and chemical modifications of TiO₂ as well as a number of novel photocatalysts with very different composition *Design of Advanced Photocatalytic Materials for Energy and Environmental Applications* provides a systematic account of the current understanding of the relationships between the physicochemical properties of the catalysts and photoactivity The already long list of photocatalysts phases and their modifications is increasing day by day By approaching this field from a material sciences angle an integrated view allows readers to consider the diversity of photocatalysts globally and in connection with other technologies *Design of Advanced Photocatalytic Materials for Energy and Environmental Applications* provides a valuable road map outlining the common principles lying behind the diversity of materials but also delimiting the imprecise border between the contrasted results and the most speculative studies This broad approach makes it ideal for specialist but also for engineers researchers and students in related fields

Smart Materials and Energy in the Fourth Industrial Revolution James Ayodele Oke, Sina Karimzadeh, Peter Ozaveshe Oviroh, Kingsley Ukoba, Patrick Ehi Imoisili, Tien-Chien Jen, 2025-09-30 This book explores the pivotal role that smart materials and energy systems play in driving innovation and sustainability in the Fourth Industrial Revolution 4IR The chapters cover a wide range of topics cutting across advanced materials science energy technologies and the ongoing digital transformation known as the 4IR By connecting smart materials to large scale sustainability efforts and clean energy technologies this work assists readers looking for solutions to climate change and global energy challenges broadening its relevance to environmental policy and renewable energy sectors Examines the development classification and application of smart materials across key industries emphasizing their role in driving innovation and sustainability Dives deeply into the evolving energy landscape and addresses the future of energy systems and clean energy solutions Offers authoritative insights and cutting edge research ensuring that readers gain access to the latest developments and trends Provides a future oriented analysis of how smart materials can be applied across diverse industries such as renewable energy nanotechnology and smart grids Involves real world examples of smart materials used in healthcare construction and renewable energy helping readers understand how these innovations are applied in practice Emphasizes sustainability energy efficiency and the role of smart materials in addressing global energy challenges Offering forward looking insights into emerging technologies and trends in smart materials energy storage and clean energy this book equips readers in materials chemical and related engineering disciplines with the knowledge to stay ahead in their fields and adapt to future industry shifts

Life Cycle Assessment (LCA) of Environmental and Energy Systems Fabrizio Passarini, Luca Ciacci, 2021-04-01 The transition towards renewable energy sources and green technologies for energy generation and storage is expected to mitigate the climate emergency in the coming years. However, in many cases, this progress has been hampered by our dependency on critical materials or other resources that are often processed at high environmental burdens. Yet, many studies have shown that environmental and energy issues are strictly interconnected and require a comprehensive understanding of resource management strategies and their implications. Life cycle assessment (LCA) is among the most inclusive analytical techniques to analyze sustainability benefits and trade-offs within complex systems, and in this Special Issue, it is applied to assess the mutual influences of environmental and energy dimensions. The selection of original articles, reviews, and case studies addressed covers some of the main driving applications for energy requirements and greenhouse gas emissions, including power generation, bioenergy, biorefinery, building, and transportation. An insightful perspective on the current topics and technologies and emerging research needs is provided. Alone or in combination with integrative methodologies, LCA can be of pivotal importance and constitute the scientific foundation on which a full system understanding can be reached.

Handbook of Emerging Materials for Sustainable Energy Naveen V. Kulkarni, Boris I. Kharissov, 2024-02-28 Handbook of Emerging Materials for Sustainable Energy provides a comprehensive accounting on the fundamentals, current developments, challenges, and future prospects of emerging materials for the development of sustainable energy. Each chapter addresses a distinct and important area within the energy field and includes comprehensive data to support the materials being presented. Sections cover Batteries, Capacitors, and Supercapacitors, Fuel cells, Thermoelectrics, Novel illumination sources, and techniques, Photovoltaics, Solar cells, Alternative energy sources, hydrogen as an energy source, including hydrogen production and fuel generation, the use of Biofuels, and Carbon dioxide. The book concludes with three chapters related to advanced materials under development for energy conservation and environmental protection, including theories, methodologies, and simulations established for advanced materials. Covers a broad scope of advanced materials that have been developed for energy and environmental sustainability. Provides detailed and updated information about the structural and functional features of various emerging materials and their multifaceted applications. Includes supplementary data alongside each chapter.

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