



# **Novel Materials for Carbon Dioxide Mitigation Technology**

*James Fan Shi and Bryan Morreale*

# Novel Materials For Carbon Dioxide Mitigation Technology

**Steve A. Rackley**



## **Novel Materials For Carbon Dioxide Mitigation Technology:**

*Novel Materials for Carbon Dioxide Mitigation Technology* Bryan Morreale, Fan Shi, 2015-06-01 Materials for Carbon Dioxide Mitigation Technology offers expert insight and experience from recognized authorities in advanced material development in carbon mitigation technology and constitutes a comprehensive guide to the selection and design of a wide range of solvent sorbent catalyst used by scientists globally. It appeals to chemical scientists, material scientists and engineers, energy researchers and environmental scientists from academia, industry and government in their research directed toward greener, more efficient carbon mitigation processes. Emphasizes material development for carbon mitigation technologies rather than regulations. Provides a fundamental understanding of the underpinning science as well as technological approaches to implement carbon capture, utilization and storage technologies. Introduces the driving force behind novel materials, their performance and applications for carbon dioxide mitigation. Contains figures, tables and an abundance of examples clearly explaining the development, characterization and evaluation of novel carbon mitigation materials. Includes hundreds of citations drawing on the most recent published works on the subject. Provides a wealth of real world examples illustrating how to bridge nano scale materials to bulk carbon mitigation properties.

**Recent Advances in Carbon Capture and Storage** Yongseung Yun, 2017-03-08 Carbon capture and storage (CCS) has been considered as a practical way in sequestering the huge anthropogenic CO<sub>2</sub> amount with a reasonable cost until a more pragmatic solution appears. The CCS can work as a bridge before fulfilling the no CO<sub>2</sub> era of the future by applying to large scale CO<sub>2</sub> emitting facilities. But CCS appears to lose some passion by the lack of progress in technical developments and in commercial success stories other than EOR. This is the time to go back to basics starting from finding a solution in small steps. The CCS technology desperately needs far newer ideas and breakthroughs that can overcome earlier attempts through improving, modifying and switching the known principles. This book tries to give some insight into developing an urgently needed technical breakthrough through the recent advances in CCS research in addition to the available small steps like soil carbon sequestration. This book provides the fundamental and practical information for researchers and graduate students who want to review the current technical status and to bring in new ideas to the conventional CCS technologies.

**Facilitated Transport Membranes (FTMs) for CO<sub>2</sub> Capture: Overview and Future Trends** Sarah Farrukh, Xianfeng Fan, Takeshi Matsuura, Syed Shujaat Karim, 2023-02-13 This book highlights the importance of Facilitated Transport Membranes (FTMs) for the application of carbon capture, covering its introduction, gas transport phenomena and models, reaction mechanisms, industrial applications such as bio gas upgradation, flue gas separation, hydrogen gas and natural gas purification, fabrication methods of both FTMs and their carrier mediums, testing, characterization techniques, techno analysis with up to date trends and the future outlooks. Climate change and environmental impacts are resulted due to greenhouse gases, particularly CO<sub>2</sub>. The industrial revolution is currently causing the augmented emission of greenhouse gases. Therefore various technologies are being looked at to

overcome these problems In which membrane technology is key among them and is envisaged for many industrial applications especially for gas separations and carbon capture Considering this FTMs are being actively investigated due to their remarkable gas separation performance This book describes the working principle of FTMs and includes case studies to explore their impact on different industrial applications Also the book highlights how FTMs are reshaping science to capture CO<sub>2</sub> for reducing climate and environmental impacts Materials and Processes for CO<sub>2</sub> Capture, Conversion, and Sequestration Lan Li,Winnie Wong-Ng,Kevin Huang,Lawrence P. Cook,2018-06-29 Addresses materials technology and products that could help solve the global environmental crisis once commercialized This multidisciplinary book encompasses state of the art research on the topics of Carbon Capture and Storage CCS and complements existing CCS technique publications with the newest research and reviews It discusses key challenges involved in the CCS materials design processing and modeling and provides in depth coverage of solvent based carbon capture sorbent based carbon capture membrane based carbon capture novel carbon capture methods computational modeling carbon capture materials including metal organic frameworks MOF electrochemical capture and conversion membranes and solvents and geological sequestration Materials and Processes for CO<sub>2</sub> Capture Conversion and Sequestration offers chapters on Carbon Capture in Metal Organic Frameworks Metal Organic Frameworks Materials for Post Combustion CO<sub>2</sub> Capture New Progress of Microporous Metal Organic Frameworks in CO<sub>2</sub> Capture and Separation In Situ Diffraction Studies of Selected Metal Organic Framework MOF Materials for Guest Capture Applications Electrochemical CO<sub>2</sub> Capture and Conversion Electrochemical Valorization of Carbon Dioxide in Molten Salts Microstructural and Structural Characterization of Materials for CO<sub>2</sub> Storage using Multi Scale X Ray Scattering Methods Contribution of Density Functional Theory to Microporous Materials for Carbon Capture and Computational Modeling Study of MnO<sub>2</sub> Octahedral Molecular Sieves for Carbon Dioxide Capture Applications Addresses one of the most pressing concerns of society that of environmental damage caused by the greenhouse gases emitted as we use fossil fuels Covers cutting edge capture technology with a focus on materials and technology rather than regulation and cost Highlights the common and novel CCS materials that are of greatest interest to industrial researchers Provides insight into CCS materials design processing characterization and computer modeling Materials and Processes for CO<sub>2</sub> Capture Conversion and Sequestration is ideal for materials scientists and engineers energy scientists and engineers inorganic chemists environmental scientists pollution control scientists and carbon chemists

*NexGen Technologies for Mining and Fuel Industries (Volume I and II)* Pradeep K. Singh,V.K. Singh,A.K. Singh,D. Kumbhakar,M.P. Roy,2017-03-06 The papers in these two volumes were presented at the International Conference on NexGen Technologies for Mining and Fuel Industries NxGnMiFu 2017 in New Delhi from February 15 17 2017 organized by CSIR Central Institute of Mining and Fuel Research Dhanbad India The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies The major issues focused on are Innovative Mining

Technology Rock Mechanics and Stability Analysis Advances in Explosives and Blasting Mine Safety and Risk Management Computer Simulation and Mine Automation Natural Resource Management for Sustainable Development Environmental Impacts and Remediation Paste Fill Technology and Waste Utilisation Fly Ash Management Clean Coal Initiatives Mineral Processing and Coal Beneficiation Quality Coal for Power Generation and Conventional and Non conventional Fuels and Gases This collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences **Advances and Technology**

**Development in Greenhouse Gases: Emission, Capture and Conversion** Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-07-20 Advances and Technology Development in Greenhouse Gases Emission Capture and Conversion is a comprehensive seven volume set of books that discusses the composition and properties of greenhouse gases and introduces different sources of greenhouse gases emission and the relation between greenhouse gases and global warming The comprehensive and detailed presentation of common technologies as well as novel research related to all aspects of greenhouse gases makes this work an indispensable encyclopedic resource for researchers in academia and industry Volume 4 titled Carbon Capture Technologies is devoted to efficient technologies utilized for separation that are the heart of controlling carbon made greenhouse gases GHGs The book starts with a review of carbon capture concepts with a focus on energy penalties as well as the operating pilots and plants followed by a meticulous investigation of different classes of capture methods Section 2 surveys the absorption process including amines physical absorbents alkaline solvents ionic liquids and deep eutectic solvents nanoparticle enhanced solvents as well as a number of novel materials and structures that are employed to eliminate GHGs utilizing absorption Section 3 addresses adsorption based strategies with a focus on the role of different solid adsorbents introduces technologies that benefit from membranes and considers different materials utilized in the fabrication of membranes The final section deals with other as state of the art alternatives in carbon capture Moreover each section reviews the economic assessments and environmental challenges Introduces carbon capture concepts and challenges Describes various absorption and adsorption processes for carbon capture Includes various membrane technologies for carbon capture Smart Materials: Integrated Design, Engineering Approaches, and Potential Applications

Anca Filimon, 2018-07-18 Polymer based smart materials have become attractive in recent years due to the fact that polymers are flexible and provide many advantages compared to inorganic smart materials they are low cost they are easy to process and they exhibit good performance at nano and microscale levels This volume focuses on a different class of polymers that are used as smart materials in the areas of biotechnology medicine and engineering The volume aims to answer these questions How do we distinguish smart materials and How do they work The chapters lay the groundwork for assimilation and exploitation of this technological advancement Four of the key aspects of the approach that the authors have developed throughout this book are highlighted namely the multidisciplinary exchange of knowledge exploration of the relationships

between multiple scales and their different behaviors understanding that material properties are dictated at the smallest scale and therefore the recognition that macroscale behavior can be controlled by nanoscale design      **Advanced**

**Functional Membranes** Inamuddin,Tariq Altalhi,Mohd Imran Ahamed,Mohammad Luqman,2022-03-15 Functional membranes are used in food processing sensor technology medical and biomedical devices desalination waste water treatment CO2 capture energy production and energy storage optoelectronics etc The book reviews recent advances in the field and discusses challenges and perspectives Keywords Membrane Fabrication Polymer Membranes Self Assembled Membranes Molecular Probes Membrane Fouling Membrane Cleaning Microfiltration Ultrafiltration Food Processing Sensors Medical Devices Biomedical Applications Desalination Wastewater Treatment Ion Exchange Processes Polymeric Ceramic Membranes Nano Holes Fuel Cells Lithium Ion Batteries Optoelectronics      **Carbon Capture and Storage** Steve

A. Rackley,2017-09-05 Carbon Capture and Storage Second Edition provides a thorough non specialist introduction to technologies aimed at reducing greenhouse gas emissions from burning fossil fuels during power generation and other energy intensive industrial processes such as steelmaking Extensively revised and updated this second edition provides detailed coverage of key carbon dioxide capture methods along with an examination of the most promising techniques for carbon storage The book opens with an introductory section that provides background regarding the need to reduce greenhouse gas emissions an overview of carbon capture and storage CCS technologies and a primer in the fundamentals of power generation The next chapters focus on key carbon capture technologies including absorption adsorption and membrane based systems addressing their applications in both the power and non power sectors New for the second edition a dedicated section on geological storage of carbon dioxide follows with chapters addressing the relevant features events and processes FEP associated with this scenario Non geological storage methods such as ocean storage and storage in terrestrial ecosystems are the subject of the final group of chapters A chapter on carbon dioxide transportation is also included This extensively revised and expanded second edition will be a valuable resource for power plant engineers chemical engineers geological engineers environmental engineers and industrial engineers seeking a concise yet authoritative one volume overview of this field Researchers consultants and policy makers entering this discipline also will benefit from this reference Provides all inclusive and authoritative coverage of the major technologies under consideration for carbon capture and storage Presents information in an approachable format for those with a scientific or engineering background as well as non specialists Includes a new Part III dedicated to geological storage of carbon dioxide covering this topic in much more depth 9 chapters compared to 1 in the first edition Features revisions and updates to all chapters Includes new sections or expanded content on chemical looping calcium looping life cycle GHG assessment of CCS technologies non power industries e g including pulp paper alongside ones already covered carbon negative technologies e g BECCS gas fired power plants biomass and waste co firing and hydrate based capture      **Carbon Capture-Utilization and Storage** Jayarama Reddy

Puthalpet,2024-07-20 In Carbon Capture Utilization and Storage Climate Change Mitigation the urgent battle against climate change takes center stage as the world grapples with the pressing need to reduce anthropogenic carbon dioxide emissions Delving into the intricate science behind Carbon Capture Utilization and Storage CCUS this book navigates the complex landscape of strategies aimed at trapping emitted CO<sub>2</sub> and preventing its release into the atmosphere From post combustion to pre combustion methods readers are immersed in a world where cutting edge technologies intersect with environmental necessity As the global community strives to honor the mandates of the Paris Agreement the author explores the potential of CCUS to pave the way for a carbon neutral future Despite challenges surrounding cost and commercial viability a glimmer of hope emerges as integrated CCUS systems gain traction around the world From the United States to China these systems offer a glimpse into a future where carbon capture and utilization become integral components of sustainable energy production With a focus on clarity and accessibility this book aims to educate undergraduates researchers and policymakers alike on the vital role CCUS plays in the fight against climate change For those seeking a comprehensive understanding of this pivotal technology Carbon Capture Utilization and Storage serves as an indispensable guide into the realm of environmental stewardship and innovation Intensification of Biobased Processes Andrzej Górak,Andrzej

Stankiewicz,2018-06-18 In recent years bioprocessing has increased in popularity and importance however bioprocessing still poses various important techno economic and environmental challenges such as product yields excessive energy consumption for separations in highly watery systems batch operation or the downstream processing bottlenecks in the production of biopharmaceutical products Many of those challenges can be addressed by application of different process intensification technologies discussed in the present book The first book dedicated entirely to this area Intensification of Biobased Processes provides a comprehensive overview of modern process intensification technologies used in bioprocessing The book focusses on four different categories of biobased products bio fuels and platform chemicals cosmeceuticals food products and polymers and advanced materials It will cover various intensification aspects of the processes concerned including bio reactor intensification intensification of separation recovery and formulation operations and process integration This is an invaluable source of information for researchers and industrialists working in chemical engineering biotechnology and process engineering Circular Economy and Sustainable Energy Materials Ngoc Thanh Thuy Tran,Wei-Sheng

Chen,Shou-Heng Liu,Jow-Lay Huang,2024-08-29 Achieving carbon neutrality is crucial for creating a sustainable and resilient future worldwide The circular economy framework focuses on reducing waste optimizing resource use and promoting regenerative practices thus curbing carbon footprints Concurrently sustainable energy techniques such as harnessing renewable sources enhancing energy storage and boosting energy efficiency contribute to the reduction of greenhouse gas emissions With a unique emphasis on net zero emission approaches this book delves into circular economy principles and sustainable energy materials offering a comprehensive perspective on climate change challenges Covers fundamental

circular economy principles from carbon capture to advancements in biomass and hydrogen energy Explores recycling techniques for essential energy materials including batteries solar cells and fuel cells Provides detailed coverage of technologies processes and challenges related to achieving sustainability in the energy sector Bridges theory and practical applications Offering a roadmap toward a carbon neutral and net zero emission future this book serves as a valuable resource for advanced students researchers engineers and policymakers worldwide seeking solutions to climate change and sustainable development

Nanostructured Materials for Visible Light Photocatalysis Arpan Kumar Nayak,Niroj Kumar Sahu,2021-10-10 Nanostructured Materials for Visible Light Photocatalysis describes the various methods of synthesizing different classes of nanostructured materials that are used as photocatalysts for the degradation of organic hazardous dyes under visible light irradiation The first three chapters include a general introduction basic principles mechanisms and synthesis methods of nanomaterials for visible light photocatalysis Recent advances in carbon bismuth series transition metal oxide and chalcogenides based nanostructured materials for visible light photocatalysis are discussed Later chapters describe the role of phosphides nitrides and rare earth based nanostructured based materials in visible light photocatalysis as well as the characteristics synthesis and fabrication of photocatalysts The role of doping composites defects different facets morphology of nanostructured materials and green technology for efficient dye removal under visible light irradiation are also explored Other topics covered include large scale production of nanostructured materials the challenges in present photocatalytic research the future scope of nanostructured materials regarding environmental hazard remediation under visible light and solar light harvesting This book is a valuable reference to researchers and enables them to learn more about designing advanced nanostructured materials for wastewater treatment and visible light irradiation Covers all the recent developments of nanostructured photocatalytic materials Provides a clear overview of the mechanism of visible light photocatalysis and the controlled synthesis of nanostructured materials Assesses the major challenges of creating visible light photocatalysis systems at the nanoscale

Graphene and its Derivatives (Volume 2) Kaustubha Mohanty,S. Saran,B. E. Kumara Swamy,S. C. Sharma,2023-08-23 This book describes the essential characteristics of graphene graphene oxide reduced graphene oxide and its nanocomposite and their applications in water and wastewater treatment and other environmental issues The book introduces each topic in detail discusses the basic principles and analyzes and summarizes recent developments in the field Various topics covered in this book include role of graphene as a potential material in photocatalytic organic pollutant degradation water splitting applications capacitive deionization techniques air purification gas adsorption and decontamination of pathogenic microorganisms Given the contents the book is useful for students researchers and professionals working in the area environmental science and materials especially graphene oxide graphene and graphene nanocomposite

**Gas Transport in Glassy Polymers** Maria Grazia De Angelis,Giulio C. Sarti,2021-04-22 This Special Issue of Membranes focuses on several new aspects of fluid transport in glassy polymers with application in



relevant membrane separations such as gas purification VOC removal and CO<sub>2</sub> capture In particular the focus lies on novel experimental techniques and detailed characterization of specific phenomena like polar and multicomponent interactions during transport The properties of novel materials such as mixed matrix membranes based on glassy polymers and different selective fillers are also presented A critical review of existing modeling approaches to describe the sorption and transport in glassy polymers suitable for membrane separations is provided including both macroscopic and atomistic models and relying both on the standard solution diffusion process and on the facilitated transport mechanism

**Diverse Strategies for Catalytic Reactions** Goutam Kumar Patra,2023-09-22 Diverse Strategies for Catalytic Reactions is a compelling exploration of catalysis a cornerstone in chemical sciences that has propelled the evolution of chemical manufacturing at the industrial scale Highlighting the distinctive characteristics of catalysis the book delves into pivotal topics and subfields It underscores the revolutionary role catalysis plays in novel design synthesis and energy efficient development while minimizing side products promoting atom economy and embracing green chemistry principles The comprehensive contents of this book include an array of chapters by experts each addressing a specific catalytic approach such as recent advances in electrocatalysis nano catalysis for selective oxidation micellar catalysis green catalysts and more Each of the 7 book chapters includes a summary and list of references for a broad range of readers Readers will understand the range of chemical engineering strategies that are used to speed up reactions and synthesize molecules of interest With its rich insights and practical applications this book serves as an invaluable reference for graduate students researchers and professionals across academic and industrial domains

*Phytochemistry in Corrosion Science* Chandrabhan Verma,Ashish Kumar,Abhinay Thakur,2024-03-27 Phytochemistry in Corrosion Science covers the use of plant extracts phytochemicals in corrosion mitigation with industrial applications It explores innovative and characterization approaches toward the utilization of plant extracts and their phytochemicals as potential corrosion inhibitors for several metals and their alloys Providing a comprehensive overview of the green aspects of plant extracts as corrosion inhibitors this book discusses the preparation of aqueous and organic phase extracts and their advantages disadvantages and use for different aggressive media It also examines aqueous and organic extracts that have been successfully used as corrosion inhibitors for various metals and electrolyte combinations This book will be a useful reference for undergraduate and graduate students and academic researchers in the fields of phytochemistry corrosion science and engineering environmental science chemical engineering green chemistry and mechanical industrial engineering

**Bioremediation for Environmental Pollutants** Inamuddin,2023-04-26 Increased industrial and agricultural activity has led to the contamination of the earth s soil and groundwater resources with hazardous chemicals The presence of heavy metals dyes fluorides dissolved solids and many other pollutants used in industry and agriculture are responsible for hazardous levels of water pollution The removal of these pollutants in water resources is challenging Bioremediation is a new technique that employs living organisms usually

bacteria and fungi to remove pollutants from soil and water preferably in situ This approach is more cost effective than traditional techniques such as incineration of soils and carbon filtration of water It requires understanding how organisms consume and transform polluting chemicals survive in polluted environments and how they should be employed in the field Bioremediation for Environmental Pollutants discusses the latest research in green chemistry and practices and principles involved in quality improvement of water by remediation It covers different aspects of environmental problems and their remedies with up to date developments in the field of bioremediation of industrial environmental pollutants Volume 1 focuses on the bioremediation of heavy metals pesticides textile dyes removal petroleum hydrocarbon microplastics and plastics This book is invaluable for researchers and scientists in environmental science environmental microbiology and waste management It also serves as a learning resource for graduate and undergraduate students in environmental science microbiology limnology freshwater ecology and microbial biotechnology

**Energy Transport Infrastructure for a Decarbonized Economy** Klaus Brun,Tim Allison,Rainer Kurz,Karl Wygant,2024-08-22 Energy Transport Infrastructure for a Decarbonized Economy evaluates the transportation of fluids required in the decarbonized energy economy The book will help researchers design manufacturers and those within government and academia to understand challenges and guide the design and development of systems machinery and infrastructure needed for a decarbonized energy economy The book provides comprehensive insights on the implications of the energy transition for a critical aspect of commerce the infrastructure central to energy transportation and the economy This practical book highlights the unique systems central to the efficient transport of various forms of energy After outlining the need for transporting energy types of fluids used to transport energy and various means of transportation the book covers the importance of understanding the energy marketplace global perspectives and then moves into the transport of natural gas hydrogen and carbon dioxide The work concludes with coverage of technology gaps research and development future trends and solutions Led by professionals with decades of experience and collecting insights from expert contributors this book begins with the essentials of energy transport provides detailed coverage of modes of transport considers critical questions of energy supply and economics and looks at long term environmentally sensitive sustainable options for the transport thereof A powerful tool for the energy transition Energy Transport Infrastructure for a Decarbonized Economy offers expert analysis on sustainable energy transport and its impact on our future Focuses on the energy transport required for a decarbonized energy economy Addresses challenges of pipeline transport of hydrogen and carbon dioxide as well as new infrastructure needs Provides details on the layout specifications and technical requirements of systems required for the transportation of hydrogen natural gas and carbon dioxide

**Aerosols** Pratim Biswas,Gregory Yablonsky,2022-07-18 Aerosol science and engineering is a vibrant field of particle technology and chemical reaction engineering The book presents a timely account of this interdisciplinary topic and its various application areas It will be of interest to scientists or engineers active in aerosol

physics aerosol or colloid chemistry atmospheric processes and chemical mechanical environmental and or materials engineering

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