

Green Chemistry and Sustainable Technology

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Masahiko Arai *Editors*

Transformation and Utilization of Carbon Dioxide

 Springer

Transformation And Utilization Of Carbon Dioxide Green Chemistry And Sustainable Technology

Ashok Kumar, Swati Sharma



Transformation And Utilization Of Carbon Dioxide Green Chemistry And Sustainable Technology:

Transformation and Utilization of Carbon Dioxide Bhalchandra M. Bhanage, Masahiko Arai, 2014-01-27

Transformation and Utilization of Carbon Dioxide shows the various organic polymeric and inorganic compounds which result from the transformation of carbon dioxide through chemical photocatalytic electrochemical inorganic and biological processes The book consists of twelve chapters demonstrating interesting examples of these reactions depending on the types of reaction and catalyst It also includes two chapters dealing with the utilization of carbon dioxide as a reaction promoter and presents a wide range of examples of chemistry and chemical engineering with carbon dioxide Transformation and Utilization of Carbon Dioxide is a collective work of reviews illustrative of recent advances in the transformation and utilization of carbon dioxide This book is interesting and useful to a wide readership in the various fields of chemical science and engineering Bhalchandra Bhanage is a professor of industrial and engineering chemistry at Institute of Chemical

Technology India Masahiko Arai is a professor of chemical engineering at Hokkaido University Japan *Transformation and Utilization of Carbon Dioxide* Bhalchandra M. Bhanage, Masahiko Arai, 2014-02-28

Chemo-Biological Systems for CO2 Utilization Ashok Kumar, Swati Sharma, 2020-09-20 Chemo Biological Systems for CO2 Utilization describes the most recent advanced tools and techniques for carbon dioxide capture and its utilization It discusses and compares the advantages of different systems and aids researchers and industrialists in understanding energy generation in the form of biofuels bioelectricity or biogas using chemicals nanomaterials and microbial enzymatic and chemo enzymatic integrated systems It describes the importance and utilization of CO2 in living systems and provides an overview of the various fundamental methods policies and techniques involved in CO2 conversion Emphasis is placed on the production of value added products using CO2 including biomethanol industrial carbonates and liquid or gaseous fuels Features Explains the correlations between microbial biological and chemical products and their roles in the conversion of CO2 into usable energy and related products Being suitable for a broad audience it addresses fundamental treatment methods for reusing environmental waste materials Aids in decision making and policy planning for environmental professionals The information provided throughout this book will help researchers and professionals working in various industries to better understand the conversion of CO2 into energy based products Chemo Biological Systems for CO2 Utilization also serves as a useful guide to seek alternative methods for clean energy and mitigating global climate change

Hydrocarbon Chemistry, 2 Volume Set George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-10-02 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil

and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists *Angewandte Chemie* and useful for chemical engineers as well as engineers in the chemical and petrochemical industries *Petroleum Science and Technology* **Climate Change and Green Chemistry of CO₂ Sequestration** Malti Goel, T. Satyanarayana, Maruthadu Sudhakar, D. P.

Agrawal, 2021-05-10 The book comprises state of the art scientific reviews on carbon management strategies in response to climate change It provides in depth information on topics relating to recent advances in carbon capture technology and its reuse in value added products It features contributions of leading scientists and technocrats on topics including climate change and carbon sequestration lowering carbon footprint CO₂ capture low carbon imperatives in oil industry CO₂ as refrigerant in cold chain application carbonic anhydrase mediated carbon sequestration and utilization chemical looping combustion with Indian coal CO₂ conversion to chemicals algae based biofuels and carbon capture patent landscaping analysis The contents of this book will be helpful for research scholars post graduate students industry agricultural scientists and policy makers planners *Facilitated Transport Membranes (FTMs) for CO₂ 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 CO₂ 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 CO₂ for reducing climate and environmental impacts **Advancing Sustainability Through Green Chemistry and Engineering** Rebecca

L. Lankey, Paul T. Anastas, 2002 This volume illustrates the use of green chemistry and engineering methodologies within the context of achieving sustainability Primary goals of sustainability include decreasing energy consumption decreasing the use of toxic and persistent materials and decreasing the consumption of non renewable resources The text discusses environmentally benign synthesis pharmaceutical greener solvents and biobased synthesis and processing The selected articles illustrate how this research can be used in practical industrial applications that advance the goals of industrial ecology and sustainability Midwest **Carbon Dioxide Utilization to Sustainable Energy and Fuels**

Inamuddin, Rajender Boddula, Mohd Imran Ahamed, Anish Khan, 2021-11-30 This edited book provides an in depth overview of carbon dioxide CO₂ transformations to sustainable power technologies It also discusses the wide scope of issues in engineering avenues key designs device fabrication characterizations various types of conversions and related topics It includes studies focusing on the applications in catalysis energy conversion and conversion technologies etc This is a unique reference guide and one of the detailed works is on this technology The book is the result of commitments by leading researchers from various backgrounds and expertise The book is well structured and is an essential resource for scientists undergraduate postgraduate students faculty R D professionals energy chemists and industrial experts **Materials**

Processing Technology, ICAMMP2011 Xianghua Liu, Zheng Yi Jiang, Jing Tao Han, 2011-12-06 Selected peer reviewed papers from the Second International Conference on Advances in Materials and Manufacturing Processes ICAMMP 2011 December 16 18 2011 Guilin China *Capture and Utilization of Carbon Dioxide with Polyethylene Glycol* Zhen-Zhen Yang, Qing-Wen Song, Liang-Nian He, 2012-08-10 In this volume Professor He and his coworkers summarize polyethylene glycol PEG promoted CO₂ chemistry on the basis of understanding about phase behavior of PEG CO₂ system and reaction mechanism at molecular level As PEG could be utilized as a green replacement for organic solvents phase transfer catalyst surfactant support in various reaction systems significantly promoting catalytic activity and recovering expensive metal catalysts particularly regarded as a CO₂ philic material the authors focus on special applications of PEG in CO₂ capture and utilization including PEG functionalized catalysts for efficient transformation of CO₂ and PEG functionalized absorbents for efficient CO₂ capture Furthermore they describe carbon capture and utilization strategy as an alternative approach to address the energy penalty problem in carbon capture and storage Interestingly the authors also discuss PEG radical chemistry in dense CO₂ as rather creative and unusual use of PEG presumably serves as a reaction medium and a radical initiator for radical chemistry **Chemistry for Sustainable Development**, 1993 **Next Generation Environmental**

Technologies Robert J. Lempert, Science and Technology Policy Institute (Rand Corporation), 2003 Next Generation Environmental Technologies NGETs focus on the redesign of manufacturing processes and products at the molecular level with the goal of reducing or eliminating the use of hazardous materials The authors examine the research development and commercialization of NGETs many derived from green chemistry assess their benefits and outline ways to reduce barriers to their development and implementation **Carbon Dioxide Recovery and Utilization** M. Aresta, 2013-06-29 Carbon Dioxide Recovery and Utilization is a complete and informative resource on the carbon dioxide sources and market at the European Union level with reference to the world situation The book covers the following themes Sources of carbon dioxide and their purity Market of carbon dioxide and its uses Separation techniques of carbon dioxide from flue gases Analysis of the potential of each technique and application Basic science and technology of supercritical CO₂ Reactions in supercritical CO₂ and its use as reactive solvent Utilization of CO₂ in the synthesis of chemicals with low energy input Conversion of CO₂

into fuels existing techniques Dry reforming of methane Assessment of the use of carbon dioxide for the synthesis of methanol This book is unique in providing integrated information and a perspective on innovative technologies for the use of carbon dioxide The book is suitable for use as a textbook for courses in chemical engineering and chemistry It is also of great interest as a general reference for those involved with technologies for avoiding carbon dioxide production and for economists This is an invaluable reference for specialists on synthetic chemistry gas separation supercritical fluids carbon dioxide marketing renewable energy and sustainable development In addition it will be useful for those working in the chemical industry and for policy makers for carbon dioxide mitigation innovative technologies carbon recycling and power generation **Green Chemistry** ,2008 Green Carbon Dioxide Gabriele Centi,Siglinda Perathoner,2014-01-17

PROMISING NEW APPROACHES TO RECYCLE CARBON DIOXIDE AND REDUCE EMISSIONS With this book as their guide readers will learn a variety of new approaches and methods to recycle and reuse carbon dioxide CO₂ in order to produce green fuels and chemicals and at the same time minimize CO₂ emissions The authors demonstrate how to convert CO₂ into a broad range of essential products by using alternative green energy sources such as solar wind and hydro power as well as sustainable energy sources Readers will discover that CO₂ can be a driving force for the sustainable future of both the chemical industry and the energy and fuels industry Green Carbon Dioxide features a team of expert authors offering perspectives on the latest breakthroughs in CO₂ recycling from Asia Europe and North America The book begins with an introduction to the production of CO₂ based fuels and chemicals Next it covers such topics as Transformation of CO₂ to useable products through free radical induced reactions Hydrogenation of CO₂ to liquid fuels Direct synthesis of organic carbonates from CO₂ and alcohols using heterogeneous oxide catalysts Electrocatalytic reduction of CO₂ in methanol medium Fuel production from photocatalytic reduction of CO₂ with water using TiO₂ based nanocomposites Use of CO₂ in enhanced oil recovery and carbon capture and sequestration More than 1 000 references enable readers to explore individual topics in greater depth Green Carbon Dioxide offers engineers chemists and managers in the chemical and energy and fuel industries a remarkable new perspective demonstrating how CO₂ can play a significant role in the development of a sustainable Earth **The International Handbook on Environmental Technology Management** Dora Marinova,David Annandale,John Phillimore,2006 This handbook offers a tool for environmental managers and environmental officers alike It contains ideas case studies and methodologies which stimulate continuous improvement thinking and help train staff to implement sustainability and environmental management concepts **Knowledge for Sustainable Development**

Unesco,2002 **World Social Science Report** ,2013 *Green Sustainable Process for Chemical and Environmental Engineering and Science* Tariq Altalhi,Inamuddin,2023-01-13 Green Sustainable Process for Chemical and Environmental Engineering and Science Carbon Dioxide Capture and Utilization explores advanced technologies based on CO₂ utilization The book provides an overview on the conversion and utilization of CO₂ extraction techniques heterogeneous catalysis green

solvent industrial approaches and commodity products through energy intensive processes In addition it highlights lifecycle assessment and biological and engineering strategies for CO₂ utilization Each chapter presents challenges in the processes and future perspectives for the application of CO₂ conversion and utilization Reviews carbon dioxide conversion and sequestration Provides literature on methods of carbon dioxide conversion and sequestration Discusses process mechanism and materials used in carbon dioxide conversion and sequestration **EM** ,2006

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