



## GHGT-9

**Recent developments in solvent absorption technologies at the  
CO<sub>2</sub>CRC in Australia****Kathryn Smith<sup>a,\*</sup>, Ujjal Ghosh<sup>a</sup>, Ash Khan<sup>a</sup>, Michael Simioni<sup>a</sup>, Kohei Endo<sup>a</sup>, Xinglei Zhao<sup>b</sup>, Sandra Kentish<sup>a</sup>, Abdul Qader<sup>a</sup>, Barry Hooper<sup>a</sup>, Geoff Stevens<sup>a</sup>**<sup>a</sup>*Cooperative Research Centre for Greenhouse Gas Technologies (CO<sub>2</sub>CRC), Department of Chemical & Biomolecular Engineering, The University of Melbourne, Australia*<sup>b</sup>*Department of Chemical Engineering, Tsinghua University, Beijing, China***Abstract**

A 2.5 TPD post-combustion CO<sub>2</sub> capture plant for brown coal and a 0.5 TPD pre-combustion CO<sub>2</sub> capture IGCC process have been designed and are being built in Victoria, Australia to assess developments in solvent absorption capture technologies. In this paper, the developments developed for these processes will be discussed along with the underpinning research in the following areas:

- New contact equipment – recent work has shown that the SMR packing has enhanced performance over structured packing and standard Pall rings.
- The influence of promoters to enhance kinetics – using a wetted-wall column, experiments have been conducted with boric acid added to potassium carbonate solvent with results showing an enhancement in CO<sub>2</sub> absorption rates.
- The influence of flue gas impurities – post-combustion impurities, including SO<sub>x</sub> and NO<sub>x</sub>, have been studied with potassium carbonate to evaluate their effects on CO<sub>2</sub> absorption.
- Process modeling – Aspen Plus<sup>®</sup> simulations have been developed to predict column performance and the effects of impurities on the equilibrium relationship.

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**Keywords:** solvent absorption; carbon dioxide; potassium carbonate; packed column; promoters; SO<sub>x</sub>; NO<sub>x</sub>; post-combustion; pre-combustion

**1. Introduction**

Removal of greenhouse gases from our atmosphere is vital in preventing the effects of climate change. The current technologies available for the separation of carbon dioxide from both pre- and post-combustion flue gases

\* Corresponding author. Tel.: +61-3-8344 1063; fax: +61-3-8344 4150.  
E-mail address: [kathryn.smith@unimelb.melb.edu.au](mailto:kathryn.smith@unimelb.melb.edu.au)

# Recent Developments In The Absorption Of

**Sunita Varjani,Ashok Pandey,R. D.  
Tyagi,Huu Hao Ngo,Christian Larroche**

## **Recent Developments In The Absorption Of:**

**Recent Developments in Alcoholism** Marc Galanter, 2013-11-21 From the President of the American Society of Addiction Medicine Recent Developments in Alcoholism Volume 10 is a major contribution to the literature of addiction medicine This volume ru cohool and Cocaine Similarities and Differences contains an impressive collection of chapters from the basic research epidemiological and clinical research perspectives as well as articles that address the relative policy issues and clinical application and patient care concerns It also sends a message to those who would still distinguish between alcohol and drugs or legal and illegal drugs In the research laboratory in the intentions and behavior of the user and by the clinician such distinctions have never been upheld The first section Clinical Pathology includes chapters on the role of alcohol in cocaine dependence dual diagnosis empirical and developmental humanistic approaches and on neuroendocrine and catecholamine levels in humans during administration and withdrawal of cocaine and alcohol emergency room evaluation of cocaine associated neuropsychiatric disorders and clinical and pharmacological interactions of alcohol and cocaine These chapters written by authors who are preeminent in their fields offer a broad perspective to both the researcher and the clinician on relevant issues in clinical pathology

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**New and Future Developments in Microbial Biotechnology and Bioengineering** Vijai Kumar Gupta,Susanne Zeilinger,Harikesh Bahadur Singh,Irina Druzhinina,2020-07-12 New and Future Developments in Microbial Biotechnology and Bioengineering Recent Developments in Trichoderma Research covers topics on Trichoderma biodiversity strain improvement and related researches in bioprocess technology chemical engineering bioremediation process secondary metabolite production Protein production plant disease resistance and biocontrol technology This book includes unique compilations of different chapters with emerging issues in the area of Trichoderma research and its related importance in the Biochemical Industry Agri Food sector Includes recent developments on Trichoderma research in plant biotechnology agriculture and in the environment Provides a detailed and comprehensive coverage of the biodiversity and biochemistry of Trichoderma Covers potential applications of Trichoderma in biotechnology including secondary metabolites and protein engineering

**Recent Developments in Particle Physics and Cosmology** G.C. Branco,Q. Shafi,J.I. Silva-Marcos,2012-12-06 The NATO Advanced Study Institute 2000 was held in Cascais a small town located in a renowned beach resort area near Lisbon The aim of the Meeting was to provide an overview and to cover the recent developments in some of the most important topics in Particle Physics and Cosmology including Neutrino Physics CP violation B Physics Baryogenesis Dark Matter Inflation Supersymmetry Unified Theories Large Extra Dimensions and M theory In the NATO ASI 2000 we had the privilege to have among the lecturers some of the most prominent physicists working in the fields of Particle Physics and Cosmology Furthermore there was a strong participation by a large number of young scientists including graduate students and post docs who had an opportunity to learn about the latest developments in the field and discuss the various topics with lecturers and other participants The enthusiasm of the young participants the generosity of the lecturers in giving their time to participate in open discussions and debates together with the social events and the pleasant environment of Cascais all contributed to the great success of the Meeting We are very grateful to Camara Municipal de Cascais for their support and organization of the reception in the beautiful Palace Condes Castro de Guimaraes and we are also specially grateful to colonel Eugenio de Oliveira for his support to commander A Monteiro de Macedo and to Mr

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**Current Developments in Biotechnology and Bioengineering** Ashok Pandey,Ranjna Sirohi,Christian Larroche,Mohammad Taherzadeh,2022-08-18 Advances in

Bioprocess Engineering the latest release in the Current Developments in Biotechnology and Bioengineering series provides a comprehensive overview of bioprocess systems kinetics bioreactor design batch and continuous reactors and introduces key principles that enable bioprocess engineers to engage in analysis optimization and design with consistent control over biological and chemical transformations The bioprocessing sector is also updating its technologies with state of the art techniques to keep up with the rising demand of the industry and R D This book covers these aspects taking readers through a step by step journey of bioprocessing while also guiding them towards a new era and future Covers state of the art technological advancements in the field of bioprocessing Includes design and scale up of bioreactors monitoring and control systems advances in upstream and downstream processing Includes design and development of fermentation processes such as the suitability of experimental design full factorial central composite design Box Behnken Plackett Burman and more

**New Developments in Dietary Fiber** Ivan Furda, Charles J. Brine, 2013-04-09 It has been acknowledged that the physiological effects of dietary fiber are an exceedingly complex matter which requires a multidisciplinary research effort The increased scientific involvement of the medical community nutritionists chemists and physicists is not only warranted but it has become mandatory This is because we are entering a more advanced research phase in which the observed in vivo effects should not be only recorded but they should be systematically correlated with the physicochemical and analytical properties of the individual dietary fibers The Division of Agricultural and Food Chemistry of the American Chemical Society has recognized this for some time and has asked us to organize another International Symposium similar to one in 1982 which would address the latest developments in this field We decided to ask a cross section of leading experts from industrial and academic research institutions to assess the state of the art in dietary fiber namely in the areas of the physiological effects physicochemical attributes and in existing and proposed analytical methods We also felt that chemistry and physical chemistry should play a greater role in fiber research to complement and better explain the existing in vivo data There is a large volume of animal and human physiological and nutritional data available Unfortunately the generated information is frequently confusing One reason is that this research is not conducted with well characterized compounds but rather with loosely defined complex mixtures or entities

**Recent Developments in Separation Science** Norman N. Li, 1972

Recent Trends in Nanotechnology and Materials Science Ford Lumban Gaol, Jeffrey Webb, 2014-05-19 This book presents 8 selected reviews from the 2013 International Conference on Manufacturing Optimization Industrial and Material Engineering held in Bandung Indonesia 09 10 March 2013 The chapters focus on new advances and research results in the fields of Nanotechnology and Materials Science from metals to thin films 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**

**Development in Energy Conversion Systems** Sunday Olayinka Oyedepo, Fidelis Ibiang Abam, Olusegun David Samuel, Oluseyi Olanrewaju Ajayi, Abimbola Patricia Popoola, Diana-Andra Borca-Tasciuc, 2024-03-15 In this industrial and technological age energy plays a principal role in sustainable development This is connected to issues regarding availability production processes utilization and environmental impact Due to the increased rate of population growth the energy demand in the entire world is getting to the level that it may not be sustained in the nearest future if drastic action is not taken to address the situation especially from research and development perspectives None of the millennium development goals MDGs can be completed without considerable improvements in the quality and quantity of energy services in developing countries according to the United Nations Development Programme UNDP Based on this fact UNDP is making efforts especially in developing countries to ensure that people have access to sustainable sources of clean reliable and affordable energy since every aspect of human development is highly impacted by this vital resource **Recent Advances**

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*in Applied Physics and Material Science* Sudhir Bhardwaj, Manoj Singh Shekhawat, Bhuvneshwer Suthar, 2025-10-22 It gives us immense pleasure to present the Conference Proceedings of the Second International Conference on Recent Trends in Applied Physics Material Science RAM 2024 held on November 15 16 2024 at Bikaner Rajasthan India This prestigious event was organized jointly by Bikaner Technical University Bikaner and the Condensed Matter Research Society Bikaner with the support of our esteemed publication partners CRC Press and the Journal of Condensed Matter RAM 2024 brought together over 400 participants both offline and online from across the globe reflecting the vibrant and growing international interest in the domains of Applied Physics and Material Science The conference featured plenary and keynote lectures by eminent experts oral presentations and poster sessions providing a stimulating platform for the exchange of knowledge and recent advances in the field Recent Trends in Industrial and Production Engineering Avanish Kumar Dubey, Anish

Sachdeva, Munish Mehta, 2021-07-23 This book presents the select proceedings of the International Conference on Advances in Sustainable Technologies ICAST 2020 organized by Lovely Professional University Punjab India This book caters to the industrial and production engineering aspects It covers the industrial and production engineering areas such as sustainable manufacturing systems decision sciences supply chain management Just in Time JIT logistics and supply chain management rapid prototyping and reverse engineering quality control and reliability six sigma smart manufacturing time and motion study six sigma ergonomics operations management manufacturing management metrology manufacturing process optimization machining and machine tools casting welding and forming This book will be useful for industry professionals and researchers working in the area of mechanical engineering especially industrial and production engineering Recent Developments in Durability Analysis of Composite Systems H. Dardon, H. Fukuda, K.L. Reifsnider, G. Verchery, 2000-01-01 The papers from these proceedings address experimental and analytical methods for the characterization and analysis of modern composite and adhesive systems They have been produced to provide understanding that can be used to design safe reliable engineering components Recent Development of Electrospinning for Drug Delivery Romána Zelkó, Dimitrios A. Lamprou, István Sebe, 2020-03-27 Several promising techniques have been developed to overcome the poor solubility and or membrane permeability properties of new drug candidates including different fiber formation methods Electrospinning is one of the most commonly used spinning techniques for fiber formation induced by the high voltage applied to the drug loaded solution With modifying the characteristics of the solution and the spinning parameters the functionality related properties of the formulated fibers can be finely tuned The fiber properties i e high specific surface area porosity and the possibility of controlling the crystalline amorphous phase transitions of the loaded drugs enable the improved rate and extent of solubility causing a rapid onset of absorption However the enhanced molecular mobility of the amorphous drugs embedded into the fibers is also responsible for their physical chemical instability This Special Issue will address new developments in the area of electrospun nanofibers for drug delivery and wound healing applications covering recent advantages and future directions in electrospun fiber formulations and scalability Moreover it serves to highlight and capture the contemporary progress in electrospinning techniques with particular attention to the industrial feasibility of developing pharmaceutical dosage forms All aspects of small molecule or biologics loaded fibrous dosage forms focusing on the processability structures and functions and stability issues are included **Advances in Materials Processing - Recent Trends and Applications in Welding, Grinding, and Surface Treatment Processes** Uday M. Basheer Al-Naib, Anna Rudawska, 2024-09-18 This book discusses advances in materials processing especially recent trends and applications in welding grinding and surface treatment processes A description of current trends in and innovative aspects of the grinding technology grinding applications and surface treatment processes is presented including the grinding technological parameters grinding machining methods new and improved technologies of grinding design of tools for grinding construction and materials of grinding tools surface

treatment using grinding in adhesive technology surface characterization after grinding and new trends in grinding applications in various industries and other technical and technological areas Grinding technology plays an important role in the surface finishing and surface treatment of many components The purpose of this book is to provide information on the characteristics and applications of grinding technology This information enables engineers scientists and designers to make effective use of grinding technology and surface treatment in the manufacturing process of various construction elements and the effective development of this technique



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## **Table of Contents Recent Developments In The Absorption Of**

1. Understanding the eBook Recent Developments In The Absorption Of
  - The Rise of Digital Reading Recent Developments In The Absorption Of
  - Advantages of eBooks Over Traditional Books
2. Identifying Recent Developments In The Absorption Of
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Recent Developments In The Absorption Of
  - User-Friendly Interface
4. Exploring eBook Recommendations from Recent Developments In The Absorption Of
  - Personalized Recommendations
  - Recent Developments In The Absorption Of User Reviews and Ratings
  - Recent Developments In The Absorption Of and Bestseller Lists

5. Accessing Recent Developments In The Absorption Of Free and Paid eBooks
  - Recent Developments In The Absorption Of Public Domain eBooks
  - Recent Developments In The Absorption Of eBook Subscription Services
  - Recent Developments In The Absorption Of Budget-Friendly Options
6. Navigating Recent Developments In The Absorption Of eBook Formats
  - ePub, PDF, MOBI, and More
  - Recent Developments In The Absorption Of Compatibility with Devices
  - Recent Developments In The Absorption Of Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Recent Developments In The Absorption Of
  - Highlighting and Note-Taking Recent Developments In The Absorption Of
  - Interactive Elements Recent Developments In The Absorption Of
8. Staying Engaged with Recent Developments In The Absorption Of
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Recent Developments In The Absorption Of
9. Balancing eBooks and Physical Books Recent Developments In The Absorption Of
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Recent Developments In The Absorption Of
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Recent Developments In The Absorption Of
  - Setting Reading Goals Recent Developments In The Absorption Of
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Recent Developments In The Absorption Of
  - Fact-Checking eBook Content of Recent Developments In The Absorption Of
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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