



CO₂ Adsorption and Desorption studies for zeolite 4A

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Abstract

Fossil fuel power plants generate carbon dioxide in large amount, its capturing and storing has received widespread attention and is viewed as an indispensable action for CO₂ discharge reduction. In this study, CO₂ adsorption capacities were studied for zeolite 4A. Breakthrough adsorption studies were done. The best for carbon dioxide adsorption and desorption over zeolite 4A has been considered. Zeolite characterized by ultraviolet and amineulable spectrometers, X-ray diffraction (XRD), surface area (area of the adsorbent measured by standard strategy for Brunauer, Emmett and Teller (BET) by Nitrogen adsorption strategy and thermogravimetric investigation (TGA). The adsorption behaviour of carbon dioxide (CO₂) on these adsorbents was explored at 30°C, 35°C, 50°C. Adsorption limit has been found for zeolite 4A at 30°C, 35°C, 50°C, is 336.77, 607.2, 406.38 mg/g of zeolite individually for given technique for adsorption. CO₂ desorption has been studied.

Keywords: Adsorption, desorption, break through capacity, XRD, Carbon dioxide.

Introduction

Burning of fossil engines lead the release of CO₂ to the climate, which is accepted to cause global warming. Fossil fuel based power plants emit carbon dioxide, its capturing has received widespread attention and is viewed as a critical approach for CO₂ emission reduction. CO₂ is by far one of the greenhouse gases being responsible for about 60% rise in greenhouse effect^[1]. The introduction pollutants which cause harm to humans or other living organisms like chemicals, particulate matter, or biological materials that is air pollution^[2]. Pollution is considered one of the main problems around the world^[3]. Natural contamination and its effect on plant have very much perceived. The role of air pollutants causing injury to plants^[4,5]. The decrease released carbon dioxide to atmosphere from stationary sources like power plants, that is of critical importance^[6]. Its separation and purification process adsorption is one of the effective techniques. Adsorption of gases on smaller scale permeable adsorbents is receiving increased attention in view of the importance of removal and recovery of CO₂. In this era utilization of a lot of fossil fuels has become one of the need of human, which lead to most serious global environment problems, which is now required to be seriously addressed worldwide^[7-10].

This work is focused on studying of adsorbent capacity for CO₂ capture. In this study, the mesoporous cylindrical particles were chosen as adsorbents to study adsorption performance of CO₂, and breakthrough or dynamic method performed^[11-13]. One of the effective option for CO₂ capture is solid adsorbent adsorption. Sorbents with high adsorption capacity are desired. For viable applications on the other hand, the accomplishment of this

methodology relies on upon the determination of an adsorbent adsorption capacity with a high CO₂ selectivity. Characterization, CO₂ adsorption capacity and desorption study of the 4A zeolite^[14-17]. Zeolites are utilized broadly as a part of numerous mechanical applications mainly in adsorption, catalysis and gases separation and ion exchange purposes^[18]. Adsorption and desorption of CO₂ over zeolite 4A has been studied^[19].

Material and Methods

Zeolite are crystalline, hydrated aluminosilicates of T and B group components, specifically, sodium, potassium, magnesium, calcium, barium and strontium^[20]. Fundamentally, zeolites are structure aluminosilicate which are based on infinitely extending three dimensional AlO₄ and SiO₄ tetrahedral linked to each other by sharing all the oxygen. They can be represented by the observational equation $M_n(\text{OH})_x \cdot \text{Al}_2\text{Si}_2\text{O}_8 \cdot x\text{H}_2\text{O}$ in this equation, n is for the most part equivalent to or more prominent than 2 since tetrahedral are joined only to tetrahedral SiO₄, and, x is the valency of the cation^[21]. Zeolite 4A in the form of pellets of more or less 3 mm. Adsorbent was bought from Merck, India Ltd. Carbon dioxide (99%) was secured from India Gases, Nagpur, India. GC grade ultra unsaturated the (99.999%) was gotten from Chemtec Technologies, Nashik, India for directing the adsorption studies^[22].

Characterization of Material: Zeolite 4A, was described, utilizing distinctive characterization procedures. X-ray diffraction has been studied utilizing a diffractometer which is of Phillips Analytical Xpert, with monochromatic Cu K α

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Zeolite Chemistry and Applications Benoit Louis, Marcelo Maciel Pereira, Qiang Wang, 2020-04-20 **CO2**

Adsorbents Ahad Ghaemi, Zohreh Khoshraftar, Fereshteh Pouresmaeil, 2025-09-10 CO2 Adsorbents comprehensively explores the materials and technologies used for adsorbing carbon dioxide. It covers materials synthesis, characterization, adsorption mechanisms, applications, modeling, and potential environmental and industrial impacts to help readers find the best adsorbent for their needs. Through its coverage of advanced research and technological developments in the field, such as novel adsorbent materials, innovative synthesis methods, and advancements in scalable production techniques, the book aims to contribute to the understanding of CO2 adsorption processes, materials, and their practical applications in addressing the global challenge of climate change and CO2 emissions reduction. Presents an overview of different adsorbent materials used for CO2 capture and the methods of synthesis, modification, and functionalization to enhance their CO2 adsorption performance. Describes characterization techniques used to assess the structural, morphological, and surface properties of CO2 adsorbents. Explores the fundamental mechanisms behind CO2 adsorption of various materials, the interactions between CO2 molecules and the adsorbent surface, and the kinetics and thermodynamics of CO2 adsorption processes. Discusses through real-world case studies the applications of CO2 adsorbents in various industries, such as natural gas purification, carbon capture, and storage, biogas upgrading, and air purification, and their potential in mitigating greenhouse gas emissions and addressing environmental concerns. Analyzes the environmental impact and feasibility of using CO2 adsorbents in real-world scenarios and the challenges and benefits of integrating adsorption technologies into existing industrial processes. Provides insights into potential improvements, challenges, and directions for further research and development. Through its practical relevance, advanced insights, and focus on sustainability and innovation, this text serves as a valuable resource for researchers, engineers, and professionals working in the field of carbon capture and utilization, including those in chemical, environmental, and related engineering disciplines. **Advances in Carbon Capture** Mohammad Reza

Rahimpour, Mohammad Farsi, Mohammad Amin Makarem, 2020-08-04 Advances in Carbon Capture reviews major implementations of CO2 capture, including absorption, adsorption, permeation, and biological techniques. For each approach, key benefits and drawbacks of separation methods and technologies, perspectives on CO2 reuse and conversion, and pathways for future CO2 capture research are explored in depth. The work presents a comprehensive comparison of capture technologies. In addition, the alternatives for CO2 separation from various feeds are investigated based on process economics, flexibility, industrial aspects, purification level, and environmental viewpoints. Explores key CO2 separation and compares technologies in terms of provable advantages and limitations. Analyzes all critical CO2 capture methods in tandem with related technologies. Introduces a panorama of various applications of CO2 capture. Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of

experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription *Hydrogen Science and Engineering, 2 Volume Set* Detlef Stolten, Bernd Emonts, 2016-03-21 Authored by 50 top academic government and industry researchers this handbook explores mature evolving technologies for a clean economically viable alternative to non renewable energy In so doing it also discusses such broader topics as the environmental impact education safety and regulatory developments The text is all encompassing covering a wide range that includes hydrogen as an energy carrier

hydrogen for storage of renewable energy and incorporating hydrogen technologies into existing technologies Zeolites and Related Materials: Trends Targets and Challenges(SET) Antoine Gedeon,Pascale Massiani,Florence

Babonneau,2008-08-19 The present book Zeolites and Related Materials Trends Targets and Challenges reports the communications that have been presented at the 4th International FEZA Federation of European Zeolite Associations Conference in Paris September 3 6 2008 It gives an excellent overview of the present state of the art of ordered nanoporous solids including zeolites as well as synthetic layered materials clays nanosized molecular sieves ordered mesoporous solids metal organic framework compounds MOFs carbons etc with emphasis on the synthesis comprehensive characterization and advanced applications The significant research activities in this domain are due to the outstanding properties of those nanoporous materials that concentrate the collaborative efforts of researchers from material science chemistry physical chemistry and physics The understanding and development of the unique properties of porous materials relies on a unique blend of multidisciplinary knowledge covering material science with the implication of organic and colloid chemistry to prepare micro and mesoporous materials surface and adsorption sciences sustained by theory and modelling to understand the peculiar behaviour of molecules in confined systems special branches of catalysis physics chemical engineering and life science to design novel applications This book summarizes the developments in the area of nanoporous solids at the dawn of the 21st century useful for both students young researchers entering the field of nanoporous materials as well as for senior scientists Also summarizes the new family of porous compounds e g MOF s and ordered porous carbon The present state of the art and prospects of nanoporous solids for advanced applications is discussed **Reducing Carbon Footprint in**

Different Sectors for Sustainability ,2024-09-25 Discover practical strategies and innovative solutions to combat climate change with Reducing Carbon Footprint in Different Sectors for Sustainability This comprehensive guide explores how diverse industries including energy transportation cement production agriculture and architecture are adopting sustainable practices to reduce their environmental impact Highlighting the critical roles of education and research in driving this transformation the book offers invaluable insights into the integration of sustainability across various sectors Whether you are a policymaker industry leader researcher or educator this volume equips you with the knowledge and tools needed to make meaningful contributions toward a low carbon future Embrace the opportunity to be part of the global effort to mitigate climate change and promote sustainability with this essential resource **Post-combustion Carbon Dioxide Capture**

Materials Qiang Wang,2018-10-22 An introduction to the different inorganic adsorbents sorbents used in post combustion carbon dioxide capture Principles of Adsorption and Adsorption Processes Douglas M. Ruthven,1984-06-05 The first up to date summary and review for the fundamental principles and industrial practice of adsorption separation processes in more than 30 years Emphasizes the understanding of adsorption column dynamics and the modeling of adsorption systems as well as fundamental aspects of kinetics and equilibria New Developments in Adsorption/Separation of Small Molecules by

Zeolites Susana Valencia, Fernando Rey, 2021-01-04 This volume compiles and discusses the fundamental and multidisciplinary knowledge on adsorption and separation processes using zeolites as adsorbents Over the last decade a large amount of research has been carried out for the development of zeolites as adsorbents However there is still a growing interest to increase the understanding of such selective adsorbents Therefore synthesis strategies and new approaches for developing new selective zeolite adsorbents for gas separation are presented in the first chapter In addition a chapter focused on adsorption characterization techniques of microporous materials is included This will be helpful for advanced readers since the new IUPAC recommendations for microporous characterization are not still widely employed by the zeolite community Experimental and theoretical aspects of economically and environmentally relevant separations which have been successfully carried out with zeolites are discussed in detail in subsequent chapters Finally industrial zeolite based adsorption and separation processes as well as current perspectives for new zeolite based separations and improvements of current technologies are presented

Decarbonization Technology Nik Abdul Hadi Sapiaa, Lam Man Kee, Khairulazhar Jumbri, Bamidele Victor Ayodele, Syaza Izyanni Ahmad, 2025-05-25 The Proceedings of the International Conference on Decarbonization Technology ICDT2024 cover a wide range of topics including Hydrogen Solar and Thermal Energy Biomass and Biofuel Carbon Capture and Utilization Green Processes and Materials and Carbon Offsets and Accounting Keywords Hydrogen Production Bioethanol Lithium Recovery Gas Separation Refrigeration Oils Microwave Heating Rubber Waste Tyre CO2 Adsorption Nanofluids Hybrid Supercapacitor CO2 Hydrogenation Oil Palm Wastes Methanol Production Biogas Upgradation Bacterial Nanocellulose Foam Polymer Aerogel Marine Farm Palm Kernel Oil Lithium ion Batteries Beverages for Astronauts Simulation Software Blue Energy Carbon Capture and Storage Nuclear Fusion Quantum Chemistry Porous Media Carbon Quantum Dots

Advances in Synthesis Gas: Methods, Technologies and Applications Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-22 Advances in Synthesis Gas Methods Technologies and Applications Syngas Purification and Separation considers different common and novel processes for the purification of produced syngas such as absorption adsorption membrane cryogenic distillation and particulate separation technologies in addition to thermal and oxidative processes for tar removal The role of various catalysts or materials in absorption adsorption and membrane processes are discussed in separate chapters to address each in more detail Introduces various adsorption and absorption techniques for purifying syngas Describes syngas purification by various membranes Discusses novel technologies for syngas purification

Equilibria and Dynamics of Gas Adsorption on Heterogeneous Solid Surfaces W.A. Steele, G. Zgrablich, W. Rudzinski, 1996-12-17 The fact that the surfaces of real solids are geometrically distorted and chemically non uniform has long been realized by the scientists investigating various phenomena occurring on solid surfaces Even in the case when diffraction experiments show a well organized bulk solid structure the surface atoms or molecules will usually exhibit a much smaller degree of surface organization In addition to the results obtained from electron diffraction this

can be seen in the impressive images obtained from STM and AFM microscopies This geometric and chemical disorder is the source of the energetic heterogeneity for molecules adsorbing on real solid surfaces Hundreds of papers have been published showing that this heterogeneity is a major factor in determining the behaviour of real adsorption systems Studies of adsorption on energetically heterogeneous surfaces have proceeded along three somewhat separate paths with only minor coupling of ideas One was the study of adsorption equilibria on heterogeneous solid surfaces The second path was the study of time evolution of adsorption processes such as surface diffusion or adsorption desorption kinetics on heterogeneous surfaces and the third was the study of adsorption in porous solids or more generally adsorption in systems with limited dimensions The present monograph is a first attempt to provide a synthesis of the ways that surface geometric and energetic heterogeneities affect both the equilibria and the time evolution of adsorption on real solids The book contains 17 chapters written by a team of internationally recognized specialists some of whom have already published books on adsorption

Energy Resources and Policies for Sustainability A. Tadeu, 2020-04-15 An increasing interest in renewable energy resources and the search for maintainable energy policies have inspired the research contributions included in this book Energy production and distribution need to respond to the modern world's dependence on conventional fuels To achieve this collaborative research is required between multiple disciplines including materials energy networks new energy resources storage solutions waste to energy systems smart grids and many other related subjects Energy policies and management are of primary importance for sustainability and need to be consistent with recent advances in energy production and distribution Challenges lie as much in the conversion from renewable energies such as wind and solar to useful forms like electricity heat and fuel at an acceptable cost including environmental damage as in the integration of these resources into existing infrastructure

Converting Power into Chemicals and Fuels Martin Bajus, 2023-07-10 CONVERTING POWER INTO CHEMICALS AND FUELS Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low carbon alternatives Power into Chemicals and Fuels stresses the versatility of hydrogen as an enabler of the renewable energy system an energy vector that can be transported and stored and a fuel for the transportation sector heating of buildings and providing heat and feedstock to industry It can reduce both carbon and local emissions increase energy security and strengthen the economy as well as support the deployment of renewable power generation such as wind solar nuclear and hydro With a focus on power to X technologies this book discusses the production of basic petrochemicals in such a way as to minimize the carbon footprint and develop procedures that save energy or use energy from renewable sources Various different power to X system configurations are introduced with discussions on their performance environmental impact and cost Technologies for sustainable hydrogen production are covered focusing on water electrolysis using renewable energy as well as consideration of the remaining challenges for large scale production and integration with other technologies Power into Chemicals and Fuels readers will also find Discussion of recent advances in

power into x technologies for the production of ethylene propylene formic acid and more Coverage of every stage in the power into x process from power generation to upgrading the final product Thermodynamic technoeconomic and life cycle assessment analyses of each major process Power into Chemicals and Fuels is a valuable resource for scientists and engineers working in the petrochemicals and hydrocarbons industries as well as for all industry professionals in these and related fields

Nanomaterials for Environmental Applications Mohamed Abou El-Fetouh Barakat,Rajeev Kumar,2022-02-03

Nanomaterials for Environmental Applications offers a comprehensive review of the latest advances in nanomaterials based technologies for the treatment of emerging contaminants in wastewater It describes the latest developments in the synthesis protocols including the synthesis of different kinds of nanostructure materials using various physical and chemical methods Features Discusses the synthesis and characterization of important nanomaterials such as carbon nanostructures metal and metal oxide nanostructures polymer nanostructures and smart 1D 3D nanomaterials Presents the latest techniques used in the characterization of nanomaterials Covers environmental applications including the remediation of pollutants in wastewater and water purification and disinfection Examines the sources fate transport and ecotoxicology of nanomaterials in the environment Aimed at researchers and industry professionals this work will be of interest to chemical environmental and materials engineers concerned with the application of advanced materials for environmental and water remediation Mohamed Abou El Fetouh Barakat is a Professor of Environmental Sciences at both King Abdulaziz University KAU Saudi Arabia and Central Metallurgical R D Institute CMRDI Egypt He is highly qualified in the fields of industrial waste management and pollution control as well as catalysis and nanotechnology His experience includes academic research works in Japan Germany the United States and Saudi Arabia as well as initiating and leading industrial research projects in Egypt jointly with the United States Rajeev Kumar is an Associate Professor in the Environmental Science Department King Abdulaziz University Jeddah Saudi Arabia His research activities are in the areas of wastewater treatment and materials science He studies the adsorption and photocatalytic properties of nanomaterials for the removal of contaminants from wastewater

Molecular Sieves: From Basic Research to Industrial Applications Jiri Cejka,2005-08-30 Due to their unique porous properties zeolites also referred to as molecular sieves are used in a variety of applications major uses are in petrochemical cracking ion exchange water softening and purification and in the separation and removal of gases and solvents Molecular Sieves From Basic Research to Industrial Applications Volume 158 A B presents over 265 worldwide contributions on the latest developments in zeolitic research Readers will find this book which is divided into five sections Synthesis Characterization Adsorption Catalysis and Novel applications ideal for staying up to date on current research on porous materials Comprehensive overview of current research on porous materials Contains experimental as well as theoretical input reflecting the increasing overlap between theory and experiment Contributions from the world s leading authorities

Biogas to Biomethane Abu Yousuf,Lynsey Melville,2023-10-19 Biogas to Biomethane Engineering Production

Sustainability addresses the technical social and economic aspects of biogas upgradation to biomethane With a focus on the latest advances the book examines the challenges of biomethane production from technology to safety Sections discuss the fundamentals of biomethane production examine the latest technologies for biogas upgradation provide step by step guidance on how to calculate and model mass energy and emission flows from different process and technological configurations address alternative and combined approaches to biogas upgradation such as with mesophilic and thermophilic bacteria consider the socio economic implications of the biogas to biomethane production chain and more Additional sections discuss biosafety in relation to the technologies and processes discussed throughout the book and assess the sustainability of biomethane through lifecycle assessments and techno economic and policy perspectives This is an invaluable reference for researchers and industry engineers interested in biogas upgradation and the production of biomethane and will be of interest to multidisciplinary teams working across Renewable Energy Chemical Engineering Environmental Science and Sustainability Science Presents a comprehensive examination of the latest upgradation routes of biogas to biomethane Provides step by step guidance on the modeling and simulation of biogas upgradation processes and technologies Analyzes the sustainability of biomethane production techno economically socially and environmentally

Fundamentals of Gas Shale Reservoirs Reza Rezaee, 2015-07-01 Provides comprehensive information about the key exploration development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis rock physics geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations

Applied Chemistry and Chemical Engineering, Volume 5 A. K. Haghi, Ana Cristina Faria Ribeiro, Lionello Pogliani, Devrim Balköse, Francisco Torrens, Omari V. Mukbaniani, 2017-12-22 This volume Applied Chemistry and Chemical Engineering Volume 5 Research Methodologies in Modern Chemistry and Applied Science is designed to fulfill the requirements of scientists and engineers who wish to be able to carry out experimental research in chemistry and applied science using modern methods Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications Thus readers will be able to apply the concepts as described in the book to their own experiments This book traces the progress made in this field and its sub fields and also highlight some of the key theories and their applications and will be a valuable resource for chemical engineers in Materials Science and others

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