Preparation of Activated Carbon Using the Copyrolysis of Agricultural and Municipal Solid Wastes

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Activated Carbon Jude Okolie,Alivia Mukherjee,2025-05-08 Activated Carbon Synthesis Analysis and Industrial Applications explores the fundamentals of activated carbon production and characterization modification techniques and applications of machine learning in the field of activated carbon synthesis and applications The book is divided into three parts to enable readers and researchers of all levels easy access to the information herein Part 1 is on Synthesis methods and characterization techniques The next six chapters on part 2 focus on diverse industrial applications of activated carbon The last section is on machine learning applications as well as research progress in activated carbon synthesis modification and diverse applications Written for researchers graduate and undergraduate students academics and industry professionals in the fields of sustainable environmental science and chemical engineering this book will be a welcomed reference for those who wish to better understand the role of activated carbon in solving sustainability challenges in the world related to energy shortage greenhouse gas emissions and environmental issues Offers useful information for industrial practitioners interested in the development of new biobased technology Opens up new research directions by listing knowledge gaps and future research prospects of activated carbon utilization **Sustainable Technologies for Textile Wastewater Treatments** Subramanian Senthilkannan Muthu,2021-03-23 Sustainable Technologies for Textile Wastewater Treatments takes on this complex and environmentally crucial issue by providing comprehensive coverage on new technologies and practices Sections provide technical detail and instruction on cutting edge technologies including innovative industrial uses of nanotechnology and waste biomass In addition case studies are provided on different textile wastewater treatment plants hence showing their full practical context Specific areas of discussion include zero liquid discharge nanomaterials adsorption and advanced oxidization processes AOP Appropriate case studies from textile wastewater treatment plants are included to help illustrate key points Other sections cover the cost of these methods before highlighting effective low cost options This book will be of use to researchers with an interest in textile sustainability or wastewater treatment although sustainability managers or lifecycle assessment professionals in the textiles and fashion sector will find the book very impactful to their work Provides detailed technical information on wastewater remediation methods including zero liquid discharge nanomaterials adsorption and advanced oxidization processes AOP Includes case studies from textile wastewater treatment plants Outlines the cost of these methods and highlights effective low cost options Biorefinery: A Sustainable Approach for the Production of Biomaterials, Biochemicals and Biofuels Pranav D. Pathak,Sachin A. Mandavgane,2023-03-01 This book discusses recent trends and concepts in the field of biorefinery It discusses optimal and economic strategies for converting biomass to value added products to maximize profits with minimal environmental impact with a sustainability approach The chapters of the book are focused on the current technologies techno economical aspects life cycle assessment and case studies The book is divided into three sections the first section presents strategies for the production of biofuels like bioethanol biomethane

biohydrogen bio oil gasification etc from the biomass in a sustainable way The second sections review the extraction of bioactive chemicals phenolic antioxidants enzymes and carboxylic acid from the biomass residue The last section examines the utilization of biomass for the production of bioactive materials including biofertilizers bioadsorbents activated carbon nano materials and pigments This book explores the relation between biofuels and the sustainable development goals SDGs 7

Bioremediation Sanjay K. Sharma,2019-10-24 Bioremediation A Sustainable Approach to Preserving Earth s Water discusses the latest research in green chemistry practices and principles that are involved in water remediation and the quality improvement of water The presence of heavy metals dyes fluoride dissolved solids and many other pollutants are responsible for water pollution and poor water quality The removal of these pollutants in water resources is necessary yet challenging Water preservation is of great importance globally and researchers are making significant progress in ensuring this precious commodity is safe and potable This volume illustrates how bioremediation in particular is a promising green technique globally Features Addresses bioremediation of all the major water pollutants Approaches the chemistry of water and the concept of water as a renewable resource from a green chemistry aspect Discusses environmental chemistry and the practice of industrial ecology Explains the global concern of adequate high quality water supplies and how bioremediation can resolve this Explores sustainable development through green engineering **Novel Water Treatment and Separation Methods** Bharat A. Bhanvase,Rajendra P. Ugwekar,Raju B. Mankar,2017-09-18 Due to increasing demand for potable and irrigation water new scientific research is being conducted to deal with wastewater from a variety of sources Novel Water Treatment and Separation Methods Simulation of Chemical Processes presents a selection of research related to applications of chemical processes for wastewater treatment separation techniques and modeling and simulation of chemical processes Among the many topics are degradation of herbicide removal of anionic dye efficient sun light driven photocatalysis removal of copper and iron using green activated carbon defluoridation of drinking water removal of calcium and magnesium from wastewater using ion exchange resins degradation of vegetable oil refinery wastewater novel separation techniques including microwave assisted extraction and more The volume presents selected examples in wastewater treatment highlighting some recent examples of processes such as photocatalytic degradation emulsion liquid membrane novel photocatalyst for degradation of various pollutants and adsorption of heavy metals The book goes on to explore some novel separation techniques such as microwave assisted extraction anhydrous ethanol through molecular sieve dehydration batch extraction from leaves of Syzygium cumini known as jambul jambolan jamblang or jamun and reactive extraction These novel separation techniques have proved be advantageous over conventional methods The volume also looks at modeling and simulation of chemical processes including chapters on flow characteristics of novel solid liquid multistage circulating fluidized bed mathematical modeling and simulation of gasketed plate heat exchangers optimization of the adsorption capacity of prepared activated carbon and modeling of ethanol water separation by pervaporation along with topics on simulation using

CHEMCAD software The diverse chapters share and encourage new ideas methods and applications in ongoing advances in this growing area of chemical engineering and technology It will be a valuable resource for researchers and faculty and industrialists as well as for students *Advances in Chemical, Bio and Environmental Engineering* Jatinder Kumar Ratan,Deepak Sahu,Nitin Naresh Pandhare,Anjireddy Bhavanam,2022-05-11 This book focuses on the state of the art research development and commercial prospective of recent advances in chemical sciences The innovative work in the field of Environmental Engineering Bio chemical Engineering Chemical Engineering Nanotechnology Environment Impact Assessment Green Technologies The contents in this book cover various design concepts and control and optimization for applications in Chemical Bio and Environmental Engineering manufacturing Physics Chemistry and Biological sciences This book will be useful resource for researchers academicians as well as professionals interested in the highly interdisciplinary field of Chemical Bio and Environmental Engineering *Production of Biofuels and Chemicals from Sustainable Recycling of Organic Solid Waste* Zhen Fang,Richard L. Smith Jr.,Lujiang Xu,2022-05-18 This book covers sustainable recycling processes e g physical biological chemical and thermo chemical of multiple organic solid wastes provides methods for material recycle of wastes into value added products including fuels and commodity chemicals that are able to be directly applied to promote manufacturing processes Aimed at improving the awareness of effective conversion protocols and for developing innovative biomass conversion processes this text was conceived as a collection of studies on state of art techniques and know how for production of biofuels and chemicals from sustainable recycling of organic solid wastes Topics in the text are discussed in terms of addressing recent advances assessing and highlighting promising new methods or new technological strategies and direct conversion of organic solid wastes to process feeds Highly recognized authorities experts and professionals have contributed individual chapters in selected areas to cover the overall topic in a comprehensive manner Advanced Composite Materials for Wastewater Treatment Norzita Ngadi,R.A. Ilyas,Nur Hafizah Ab Hamid,S.M. Sapuan,2025-05-08 Advanced Composite Materials for Wastewater Treatment presents the latesttechnological advancements in this important research field This book explores recent advances in manufacturing fabrication and theintroduction of functional groups such as tailored layered double hydroxide LDH based nanocomposites and three dimensional hierarchical nanostructures Among several discussed composites those that show maximum efficiency including graphene composites bio based composites alginate natural fiber rubber etc biochar metal organic frameworks geopolymers nanocomposites and LDH are all discussed This book is an essential reference resource for researchers scientists andindustrial professionals as well as postgraduate students providing them with anin depth understanding of cutting edge developments in this field It providesreaders with an overview of the evolution of composites in water and wastewatertreatment applications Covers wastewater treatment processes using composite materials Introduces different types of composite materials with an emphasis onperformance related to wastewater treatment Showcases valuable techniques in producing composite materials for wastewatertreatment

Carbons for Electrochemical Energy Storage and Conversion Systems Francois Beguin,Elzbieta Frackowiak,2009-11-18 As carbons are widely used in energy storage and conversion systems there is a rapidly growing need for an updated book that describes their physical chemical and electrochemical properties Edited by those responsible for initiating the most progressive conference on Carbon for Energy Storage and Environment Protection CESEP this book undoub *Synthesis, Characterization, and Applications of Graphitic Carbon Nitride* Sabu Thomas,S. Anas,Jomon Joy,2022-09-21 Synthesis Characterization and Applications of Graphitic Carbon Nitride An Uprising Carbonaceous Material offers an up to date record on the major findings and observations relating to graphitic carbon nitride based systems elaborately covering all the aspects of carbon nitride as chemical stable and pollution free materials that are easy to prepare in a cost effective way along with their applications in photocatalytic degradation of pollutants photocatalytic hydrogen generation carbon dioxide reduction disinfection sensors and supercapacitors Graphitic carbon nitride g C3N4 is a fascinating visible light photocatalyst which possesses many properties that can be used for many applications This makes the book an indispensable reference for post graduate students researchers in academia and industry and engineers working in the field of graphitic carbon nitride based systems Includes the applications of graphitic carbon nitride as a photocatalyst for the reduction of CO2 Describes the synthesis structure and properties of graphitic carbon nitride based systems Deals with the development of graphitic carbon nitride based nanocomposites Includes hydrogen production via water splitting by using graphitic carbon nitride Describes the applications of graphitic carbon nitride in the field of sensors solar cells fuel cells and in analytical chemistry **Biomass-Derived Materials for Environmental Applications** Ioannis Anastopoulos,Eder Claudio Lima,Lucas Meili,Dimitrios A Giannakoudakis,2022-05-20 Biomass Derived Materials for Environmental Applications presents state of the art coverage of bio based materials that can be applied to address the growing global concern of pollutant discharge in the environment The book examines the production characterization and application of bio based materials for remediation Organized clearly by type of material the book includes details on lignocellulosic materials natural clays carbonaceous materials composites and advanced materials from natural origins Readers will find an interdisciplinary and practical examination of these materials and their use in environmental remediation that will be valuable to environmental scientists materials scientists environmental chemists and environmental engineers alike Highlights a wide range of synthetic methodologies as well as physicochemical and engineered features of bio based materials for environmental purposes Provides in depth examination of bio based materials and their characteristics and advantages in environmental remediation Covers a range of specific materials including background information key results critical discussions conclusions and future perspectives **Biochar in Agriculture for Achieving Sustainable Development Goals** Daniel C.W. Tsang,Yong Sik Ok,2022-05-14 Biochar in Agriculture for Achieving Sustainable Development Goals introduces the state of the art of biochar for agricultural applications to actualize sustainable

development goals and highlight current challenges and the way forward The book focuses on scientific knowledge and biochar technologies for agricultural soil improvement and plant growth Sections provide state of the art knowledge on biochar production and characterization focus on biochar for agricultural application and soil improvement discuss the roles of biochar for environmental improvement in farmland to relieve water and waste management as well as climate change highlight biochar used for boosting bioeconomy and clean energy and discuss future prospects This book will be important to agricultural engineers and researchers as well as those seeking to improve overall soil and environmental conditions through the use of biochar Focuses on biochar utilization in agricultural applications targeting deeper elaboration of biochar as a cost effective and renewable material in field scale agriculture applications Highlights biochar s role in boosting the bioeconomy which shows great potential for promoting a circular economy and maximizing environmental social and economic benefits Connects biochar applications with sustainable development goals Sustainable Food Waste-to-Energy Systems Thomas Trabold,Callie W. Babbitt,2018-09-05 Sustainable Food Waste to Energy Systems assesses the utilization of food waste in sustainable energy conversion systems It explores all sources of waste generated in the food supply chain downstream from agriculture with coverage of industrial commercial institutional and residential sources It provides a detailed analysis of the conventional pathways for food waste disposal and utilization including composting incineration landfilling and wastewater treatment Next users will find valuable sections on the chemical biochemical and thermochemical waste to energy conversion processes applicable for food waste and an assessment of commercially available sustainable food waste to energy conversion technologies Sustainability aspects including consideration of environmental economic and social impacts are also explored The book concludes with an analysis of how deploying waste to energy systems is dependent on cross cutting research methods including geographical information systems and big data It is a useful resource for professionals working in waste to energy technologies as well as those in the food industry and food waste management sector planning and implementing these systems but is also ideal for researchers graduate students energy policymakers and energy analysts interested in the most recent advances in the field Provides guidance on how specific food waste characteristics drive possible waste to energy conversion processes Presents methodologies for selecting among different waste to energy options based on waste volumes distribution and properties local energy demand electrical thermal steam opportunities for industrial symbiosis regulations and incentives and social acceptance etc Contains tools to assess potential environmental and economic performance of deployed systems Links to publicly available resources on food waste data for energy conversion

3rd Generation Biofuels Eduardo Jacob-Lopes,Leila Queiroz Zepka,Ihana Aguiar Severo,Mariana Manzoni Maroneze,2022-06-01 3rd Generation Biofuels Disruptive Technologies to Enable Commercial Production is a comprehensive volume on all aspects of algal biofuels offering the latest advances on commercial implementation In addition to the fundamentals the book discusses all applied aspects of 3rd generation biofuels production including design approaches unit

operations of the upstream and downstream biomass processing and every potential microalgae based energy product including microbial fuel cells Policy economic environmental and regulatory issues are addressed in a dedicated section Finally the book presents pilot and demonstration scale projects for 3rd generation biofuels production in the format of a white paper Each chapter reviews the state of the art discusses the disruptive technological approaches that will potentially enable large scale production and concludes with specific recommendations on how to achieve commercial competitiveness The book provides readers with an invaluable reference for researchers graduates and practitioners working in the areas of renewable energy bioenergy and alternative fuels and biotechnology Offers a sequential framework for the design of process plants using 3rd generation feedstock Presents dedicated sections on case studies at pilot and demonstration scales as well as on policy economic and environmental issues Provides a global perspective on biofuels production with more than 40 contributions from world renouned experts **Issues in Biotechnology and Medical Technology Research and Application: 2011 Edition** ,2012-01-09 Issues in Biotechnology and Medical Technology Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Biotechnology and Medical Technology Research and Application The editors have built Issues in Biotechnology and Medical Technology Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Biotechnology and Medical Technology Research and Application in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Biotechnology and Medical Technology Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Waste to Profit Meera Sheriffa Begum K.M.,Anand Ramanathan,Amaro Olimpio Pereira Junior,Dmitrii O. Glushkov,M. Angkayarkan Vinayakaselvi,2023-06-19 Waste to Profit Environmental Concerns and Sustainable Development gives information about selecting the most suitable technology for waste treatment and energy recovery under different conditions It contains techno economic analysis life cycle assessment optimization of tools and technologies including overview of various technologies involved in the treatment of wastes and factors influencing the involved processes Finally it explores the environmental socioeconomic and sustainability impact of different waste to energy systems Features Reviews energy sources and technologies from waste their environmental interactions and the relevant global energy policies Provides overview of waste to energy technologies for a sustainable future Explores physicochemical properties involved in the pertinent process and technologies Gives a multidisciplinary view about energy conversion and management planning controlling and monitoring processes Discusses information in transferring the technologies industrial level and global level to meet the requirements of

different countries This book is aimed at researchers and graduate students in environmental engineering energy engineering waste management waste to energy and bioenergy Solid-Gaseous Biofuels Production Inamuddin,Tariq Altalhi,2024-07-24 Written by a team of industry experts and edited by one of the most prolific and well respected engineering authors in the industry this exciting new volume covers the latest processes equipment and applications for clean biofuel production With renewable and alternative energy sources becoming more and more important and the growth in percentage of the overall energy used biofuels production is more important than ever and is a huge part of taking up the slack in the transition from fossil fuels This volume covers many of the newest state of the art processes trends and changes in the industry combining information from many disciplines to deliver have to have solutions for the engineer or scientist s daily problems Whether in the plant or in the classroom this exciting new volume is a must have for any engineer scientist student or other industry professional working in biofuel production Audience Engineers scientists faculty and students and industry professionals working in the biofuel industry WASTES – Solutions, Treatments and Opportunities II Candida Vilarinho,Fernando Castro,Maria de Lurdes Lopes,2017-09-01 Wastes Solutions Treatments and Opportunities II contains selected papers presented at the 4th edition of the International Conference Wastes Solutions Treatments and Opportunities that took place 25 26 September 2017 at the Faculty of Engineering of the University of Porto Porto Portugal The Wastes conference which takes place biennially is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance The published papers focus on a wide range of topics including Wastes as construction materials Wastes as fuels Waste treatment technologies MSW management Recycling of wastes and materials recovery Wastes from new materials nanomaterials electronics composites etc Environmental economic and social aspects in waste management and Circular economy

Designer Biochar Assisted Bioremediation of Industrial Effluents Riti Thapar Kapoor,Maulin P. Shah,2022-12-12 This book provides useful information and applications of biochar produced from agricultural waste for removal of contaminants from industrial effluent and reutilization of waste sludge in the production of biofuel bioenergy It describes how designer or modified biochar or combined application biochar microbes can be applied successfully for reuse of wastewater and contaminated soil for ecorestoration environment protection and sustainable development It also deals with the unique features advantages and disadvantages of techniques for biochar production and analyses It underlines a road map in development of future strategy for pollution abatement and sustainable development Features Provides exhaustive coverage of biochar and its production and properties Highlights use of biochar in pollution control and environment protection Covers use of agricultural waste waste biomass for dye decolorization and degradation Explores synergistic approaches for contaminants removal for better insights into basic and advanced biotechnological applications Describes how biochar treatment can be successfully applied for reuse of wastewater and contaminated soil ecorestoration and environment

protection This book is aimed at graduate students and researchers in chemical biochemical engineering biotechnology environmental sciences engineering and agriculture engineering *Biochar and its Application in Bioremediation* Riti Thapar Kapoor,Helen Treichel,Maulin P. Shah,2022-01-03 Biochar prepared from agricultural biomass has received considerable attention because of the huge availability of ago waste at zero cost flexibility high efficiency renewability faster contaminant removal rate ability to treat concentrated effluent and reduction of sludge production after the treatment This book on biochar is a comprehensive account of preparation of biochar from agricultural waste It provides a roadmap in development of future strategy for pollution abatement and sustainable waste management This book contains up to date information on biochar and its role in environment protection The book covers useful information and applications of biochar to research scholars academicians agronomists scientists and environmentalist working in the field of environment protection bioremediation waste management and climate change mitigation

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