



Sunflower seed



Sunflower seed husk



Soak and stir the husk in a 20% solution of  $ZnCl_2$  at 70 °C to 2 h at ratio 2:1



Let the mix. at room temp. for 48 hours



Filtration of husk

Use to remove  $Cd^{+2}$ ,  $Cr^{+3}$  and  $Pb^{+2}$  ions

Applied



Drying



Washing carbon with  $HCl$  and afterwards with deionized water



Burning the husk under nitrogen at 400-500 °C

Characterization

XRD, SEM, EDX, TGA and FT-IR

# Preparation And Characterization Of Activated Carbon

**Zhen Fang, Richard L. Smith, Jr.**



## **Preparation And Characterization Of Activated Carbon:**

*Preparation and Characterization of Activated Carbon...* Liza Ramli,1999      *Preparation and Characterization of Activated Carbon from Raw Red Macroalgae and Bio Char from Macroalgae* Bouaik Hassan,2020 This article discusses the preparation and characterization of activated carbon by the combined method combination of two methods of chemical activation by ZnCl<sub>2</sub> and physical CO<sub>2</sub> leads to essentially microporous coals with specific BET specific surfaces which can exceed 800 m<sup>2</sup> g It is generally obtained by the BET method which is based on the adsorption capacity in vapor phase of nitrogen at 77 K and the steric hindrance of the N<sub>2</sub> molecule Microporous activated carbon prepared from Moroccan red macroalgae can be used as excellent carriers for adsorbing small molecules like heavy metals and other organic molecules like pesticides This work was devoted to the characterization of active carbon prepared from red macroalgae with H<sub>3</sub> PO<sub>4</sub> ZnCl<sub>2</sub> CO<sub>2</sub> H<sub>3</sub> PO<sub>4</sub> CO<sub>2</sub> ZnCl<sub>2</sub> by TFIR BET and SEM

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**7th International Symposium on High-Temperature Metallurgical Processing** Jiann-Yang Hwang,Tao Jiang,Chris Pistorius,Gerardo Alvear,Onuralp Yucel,Liyuan Cai,Baojun Zhao,Dean Gregurek,Varadarajan Seshadri,2016-12-01 The technology operation energy

environmental analysis and future development of the metallurgical industries utilizing high temperature processes are covered in the book The innovations on the extraction and production of ferrous and nonferrous metals alloys and refractory and ceramic materials the heating approaches and energy management and the treatment and utilizations of the wastes and by products are the topics of special interests This book focuses on the following issues High Efficiency New Metallurgical Process and Technology Fundamental Research of Metallurgical Process Alloys and Materials Preparation Direct Reduction and Smelting Reduction Coking New Energy and Environment Utilization of Solid Slag Wastes and Complex Ores Characterization of High Temperature Metallurgical Process *Rapid Refrigeration and Water Protection* Rasel Das,Bidyut Baran Saha,2022-05-23 This book provides a cross disciplinary multi scale assessment of the development of adsorption based refrigerants and super adsorbent based wastewater purification The book covers two major aspects from the 21st century including the development of an environmentally benign adsorption cooling system and the preparation of a super adsorbent for water purification Although work has been published on these topics the authors present the latest findings and introduce some new perspectives The book is written as a reference book with contributions from global field experts and will appeal to water engineers chemists environmentalists physicists material scientists nano technologists and environmental technologists

**Production of Biofuels and Chemicals from Lignin** Zhen Fang,Richard L. Smith, Jr.,2016-09-28 This book provides state of the art reviews current research on and the prospects of lignin production biological thermal and chemical conversion methods and lignin technoeconomics Fundamental topics related to lignin chemistry properties analysis characterization and depolymerization mechanisms as well as enzymatic fungal and bacterial degradation methods are covered The book also examines practical topics related to technologies for lignin and ultra pure lignin recovery activated carbon carbon fiber production and materials and addresses the biological conversion of lignin with fungi bacteria or enzymes to produce chemicals along with chemical catalytic thermochemical and solvolysis conversion methods Lastly it presents a case study on practical polyurethane foam production using lignin Lignin has a bright future and will be an essential feedstock for producing renewable chemicals biofuels and value added products Offering comprehensive information on this promising material the book represents a valuable resource for students researchers academicians and industrialists in the field of biochemistry and energy

*Biomass and Bioenergy* Khalid Rehman Hakeem,Mohammad Jawaid,Umer Rashid,2014-08-25 Biomass obtained from agricultural residues or forest can be used to produce different materials and bioenergy required in a modern society As compared to other resources available biomass is one of the most common and widespread resources in the world Thus biomass has the potential to provide a renewable energy source both locally and across large areas of the world It is estimated that the total investment in the biomass sector between 2008 and 2021 will reach the large sum of 104 billion Presently bioenergy is the most important renewable energy option and will remain so the near and medium term future Previously several countries try to explore the utilization of biomass in bioenergy

and composite sector Biomass has the potential to become the world's largest and most sustainable energy source and will be very much in demand Bioenergy is based on resources that can be utilized on a sustainable basis all around the world and can thus serve as an effective option for the provision of energy services In addition the benefits accrued go beyond energy provision creating unique opportunities for regional development The present book will provide an up to date account of non wood forest residues agricultural biomass natural fibers and energy crops together with processing properties and its applications to ensure biomass utilization and reuse All aspects of biomass and bioenergy and their properties and applications will be critically re examined The book consists of three sections presenting Non wood and forest products from forestry arboriculture activities or from wood processing agricultural biomass natural fibers from agricultural harvesting or processing and finally energy crops high yield crops and grasses grown especially for energy production

**Preparation and Characterization of Activated Carbons from Bamboo for Adsorption Studies on the Removal of Surfactants** Wai Wan Cheong,2006 Preparation and Characterization of Activated Carbon from Chengal Wood (Balanocarpus Hemii) Ahmad Rizal Ahmad Nor,1999

**Solid Waste Management** Garima Chauhan,Surajbhan Sevda,2023-12-01 Waste is generally identified as goods or material that are perceived to be mostly valueless However objects that are perceived to be waste based on consumers object valuation can be redefined to create value This requires a multitude of efforts using different strategies in waste prevention and management This book is an edited collection of various chemical approaches used for valorization of solid wastes particularly waste electrical and electronic equipment plastic waste and agro residue waste that provide research insights into the concept waste to energy Covering a variety of interdisciplinary topics on waste treatment and resource recovery makes the book one for all that serves as an excellent reading material for engineers science scholars entrepreneurs and organizations who are working in the field of waste management

**Preparation and Characterization of Activated Carbon from Oil Palm Trunk** Harivindran N. Krishnan,2005 The Quest for Global Dominance Anil K. Gupta,Vijay Govindarajan,Haiyan Wang,2008-03-21 Anil K Gupta Vijay Govindarajan and Haiyan Wang are among the most distinguished experts in the field of globalization In The Quest for Global Dominance they present the lessons from their twenty year study of over two hundred corporations They argue that in order for a company to create and maintain its position as a globally dominant player executives must ensure that their company leads its industry in the following four essential tasks Identifying market opportunities worldwide and pursuing them by establishing the necessary presence in all key markets Converting global presence into global competitive advantage by identifying and developing the opportunities for value creation that global presence offers Cultivating a global mindset by viewing cultural and geographic diversity as an opportunity not just a challenge Leveraging the rise of emerging markets especially China and India to transform the company's growth prospects global cost structure and pace of innovation

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