Coal Liquefaction Residues Based Carbon Nanofibers Film Prepared by Electrospinning: An Effective Approach to Coal Waste Management

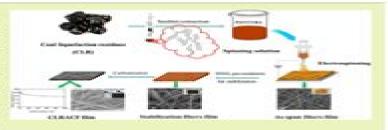
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Supporting Information

ABSTRACT: As a major byproduct of direct coal liquefaction, coal liquefaction residue (CLR) waste is environmentally harmful but also valuable. Considering environmental and economic efficiency, exploiting these wastes as electrodes for new generation energy storage devices will increase the economic value and decrease environmental pollution synchronously. In this regard, CLRs are used to prepare carbon nanofibers film for supercapacitors via electrospinning followed by HNO, preoxidization, air stabilization, and carbonization processes for the first time. The influences of HNO, preoxidization over the formation of fiber morphology, textural structure, surface chemistry, and electrochemical performance are investigated. Our work demonstrates that HNO, preoxidization can enhance the content of the



heteroatom of the as-spun nanofibers and promote the polymerization of the asphaltene (CLRA) molecular during air stabilization, leading to the changes of the thermal behaviors and thus avoiding the fibers melting successfully. The results show that the obtained sample exhibits a 3D nonwoven network with an average diameter of 200 nm, good flexibility, high content of nitrogen, and large specific surface area. Owing to these merits, the as-obtained sample shows high specific capacitance, excellent rate capability (143 F g -1 at 100 A g -1), and long lifespan (98% of its initial capacitance after 10 000 cycles) as supercapacitor electrode.

KEYWORDS: Coal liquefaction residues, Asphaltene, Carbon manefibers film, Supercapacitors, Electrospinning, HDVO, proceedspation

INTRODUCTION

Energy storage devices play an essential role in tackling the issues of storage of the intermittent energy from solar or wind and alleviating environment and energy crises. 1-3 Among modern energy storage technologies, supercapacitors (SCs) have become a fast-growing system due to the distinct characteristics of high power density, safety and long cycling life." The United States and European Union have reported that carbon materials play an important role in energy devices. However, large amounts of carbon-based electrodes made by conventional slurry-coating method can hardly fulfill the demands of the fabrication of high-performance SCs because the polymer binder not only decreases the conductivity of the active materials but also blocks the contact between active material and electrolyte, which leads to low utilization efficiency and undesirable rate capability. Therefore, the preparation of high-quality integrated electrode is of great significance. Moreover, this innovative device also provides a new approach to develop highly flexible and lightweight SCs

used as power supply for next-generation portable and wearable electronic applications. Owing to its advantages of high surface area, light weight, structural controllability, and convenience in fabrication, electrospinning carbon nanofibers (CF) film has drawn great attention as flexible and freestanding electrodes for SCs.". To date, a myriad of precursors, such as coal, 10 pitch, 11 biomass, 12 lignin, 12 and so on, has been used to fabricate the CF films.

As a major byproduct of direct coal liquefaction, coal liquefaction residues (CLR) waste is environmentally harmful but also valuable.14,15 It would be meaningful if we can extract valuable organic components to fabricate high-value-integrated free-standing products for electronic and energy-related applications rather than combustion or gasification, which can increase the economic value and decrease environmental

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- 1. Understanding the eBook Management Of Afbc Residues By Irene Smith Iea Coal Research
 - The Rise of Digital Reading Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Management Of Afbc Residues By Irene Smith Iea Coal Research
 - 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 Management Of Afbc Residues By Irene Smith Iea Coal Research
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Personalized Recommendations
 - Management Of Afbc Residues By Irene Smith Iea Coal Research User Reviews and Ratings
 - Management Of Afbc Residues By Irene Smith Iea Coal Research and Bestseller Lists
- 5. Accessing Management Of Afbc Residues By Irene Smith Iea Coal Research Free and Paid eBooks

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 - Management Of Afbc Residues By Irene Smith Iea Coal Research Enhanced eBook Features
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 - Highlighting and Note-Taking Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Interactive Elements Management Of Afbc Residues By Irene Smith Iea Coal Research
- 8. Staying Engaged with Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Management Of Afbc Residues By Irene Smith Iea Coal Research
- 9. Balancing eBooks and Physical Books Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Management Of Afbc Residues By Irene Smith Iea Coal Research
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Setting Reading Goals Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Management Of Afbc Residues By Irene Smith Iea Coal Research
 - Fact-Checking eBook Content of Management Of Afbc Residues By Irene Smith Iea Coal Research
 - 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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