

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441030043 A

(19) INDIA

(22) Date of filing of Application :13/04/2024

(43) Publication Date : 07/06/2024

(54) Title of the invention : PROCESS OF PREPARING COCOS NUCIFERA WASTE- DERIVED HIGH- SURFACE CARBON AND SELECTION OF ELECTROLYTE CONCENTRATION FOR GREEN ENERGY STORAGE DEVICE

<p>(51) International classification :H01M0004360000, B01J0035000000, C01G0009000000, A61K0036889000, B05D0001020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)National Institute of Technology Karnataka Address of Applicant :Srinivasnagar PO, Surathkal, Mangaluru - 575025, Karnataka, India Mangalore ----- ----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shreeganesh Subraya Hegde Address of Applicant :Shivanugraha", House No.-19, Beerangod, Post: Magod, Tq: Honnavar, Dist: Uttarakannada, Honnavar-581423, Karnataka, India. Honnavar ----- -----</p> <p>2)Badekai Ramachandra Bhat Address of Applicant :‘Poornachandra’ 15-22-1169/3, 3rd Cross, Lower Bendoor, Kankanady, Dist: Dakshina Kannada, Mangaluru-575002, Karnataka, India. Mangalore ----- -----</p>
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(57) Abstract :

A process (100) of preparing cocos nucifera waste-derived high-surface carbon and selection of electrolyte concentration for green energy storage device is disclosed. The process (100) includes mixing (102) a pulverized material with Zinc chloride (ZnCl₂) in ultrapure water to obtain a first mixture, heating (104) the first mixture by continuous stirring until a first solid paste is formed, placing (106) the first solid paste in a hot air oven at first predefined temperature for a first predefined time to obtain a ZnCl₂-treated sawdust, pyrolyzing (108) the ZnCl₂-treated sawdust in an argon gas environment at second predefined temperature for a second predefined time to obtain a pyrolyzed powder sample, mixing (110) the pyrolyzed powder sample with KOH in the ultrapure water to obtain a second mixture, and heating (112) the second mixture by continuous stirring until a second solid paste is formed. <

No. of Pages : 27 No. of Claims : 10