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Surface and porous characterisation of activated carbons made from a novel biomass precursor, the esparto grass

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ABSTRACT

In the work now reported the production of activated carbons from a novel precursor, esparto grass, by activation with carbon dioxide is presented. The results show that the materials produced have interesting properties, namely BET apparent surface area and pore volume up to 1122 $m^2 g^{-1}$ and 0.46 $cm^3 g^{-1}$, respectively. The activated carbons have basic characteristics with point of zero charge between 9.25 and 10.27 and show a very fascinating structure, as shown by the SEM images.