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Supercapacitors based on AC/MnO₂ deposited onto dip-coated carbon nanofiber cotton fabric electrodes

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Abstract

This work introduces the preparation of flexible carbon composite electrodes based on the top-down approach starting from the dip-coating of carbon nanofibers (CNFs) onto a cotton fabric. On these so-obtained conductive cotton fabrics, further layers of activated carbon and manganese oxide (MnO₂) materials were subsequently added to enhance the electrochemical performances of negative and positive electrodes. At the end, two different

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