ZnO/carbon nanotube nanocomposite for supercapacitors

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A facile, green and highly efficient method for the decoration of carbon nanotubes with ZnO was developed for the fabrication for supercapacitor applications via precipitation method. This method leads to more easy coating with tuneable size, which alters the electrochemical performance of the nano composite electrodes. The structure and surface morphology of the composite film have been studied by means of X-ray diffraction (XRD) analysis, scanning electron microscopy and field emission scanning electron microscopy (FESEM). The XRD study reveals the formation of Wurtzite ZnO structure. The electrochemical performance of nano composite electrode was investigated using cyclic voltammetry, and electrochemical impedance measurements.