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Research Article

MWCNT attached mesoporousAg₃O₄ @NiO nanocomposite for hybrid supercapacitor applications

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ABSTRACT

The carbon nanotubes attached mesoporous Ag₃O₄-coated NiO nanosheets were prepared successfully through hydrothermal method. The structural, morphological and electrochemical properties of the prepared nanocomposite have been studied. The X-ray diffraction and Raman analysis confirms the presence of NiO, Ag₃O₄ and carbon nanotubes in the prepared sample. HRTEM images clearly show the coating of Ag₃O₄ on the NiO and attachment of carbon nanotubes. BET surface area analysis confirms the mesoporous nature of the prepared composite. The cyclic voltammetric