Facile Synthesis of MnO₂@attapulgite Nanoparticles for Supercapacitor

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In this paper the MnO₂@attapulgite nanoparticles have been successfully synthesized for the supercapacitor, and characterized by X-ray diffractometer, scanning electron microscopy, energy dispersive spectrometer, infrared spectrometer, and surface area and pore size analyzers. The cyclic voltammetry and galvanostatic charge/discharge were performed for MnO₂@attapulgite in 1 M Na₂SO₄ aqueous solutions. For the high specific capacitance and long life time the best mass rate of MnO₂: ATP for MnO₂@attapulgite was obtained.

Keywords: MnO₂, attapulgites, supercapacitor

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