Fabrication of β -MnO₂/RGO Composite and Its Electrochemical Properties

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MnO₂ is considered to be a promising alternative anode material for lithium ion batteries. In this work, β -MnO₂/RGO composite has been successfully fabricated via hydrothermal method. The sample is carefully investigated by X-ray diffraction (XRD) techniques, Raman spectra, X-ray photoelectron spectroscopy (XPS) and scanning electron microscopy (SEM). When β -MnO₂/RGO composite as anode material for lithium ion batteries, which shows good cycling performance and excellent rate capacity.

Keywords: MnO₂, β -MnO₂/RGO composite, lithium ion batteries, anode material

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