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The electrochemical properties of NiO/NFs electrode induced by UV light irradiation

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A simple thermal oxidation has been used for fabricating nanostructured NiO/NFs electrodes at a temperature lower 1000°C in air. The results obtained from x-ray diffraction (XRD) and scanning electron microscope (SEM) have shown the structure and morphology of Ni foam (NFs) before and after oxidation. The electrochemical characterization measurements have shown that the NiO/NFs electrodes are sensitive to UV light, as observed from the increase in measured current. The effect of UV-irradiation will be discussed.

Keywords: NiO electrode, UV light, Electrochemical, Thermal oxidation

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