

Abstract

AgNO₃/MOF-NPs composite with activated carbon was synthesized by solution hydrothermal method. Using X-ray diffraction (XRD), Fourier-transform infrared spectroscopy (FTIR), scanning electron microscopy, and electrochemical measurements were examined. The existence of the crystalline nature of AgNO₃/MOF-NPs was confirmed by XRD after sintering at 700 °C. Functional groups like Ni-O and C-O were confirmed by FTIR in the produced samples.