

Visible light driven photocatalytic activity of hybrid ZnO/GO nanostructures

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In this work, hybrid ZnO/GO nanostructures were prepared by a simple Solvothermal technique under 150 °C for 6 hours. In order to characterize the Surface morphology and crystallinity characterization of hybrid ZnO/GO nanostructures, Field emission scanning electron microscopy (FE-SEM), X-ray diffraction (XRD), Fourier transforms (FT-IR) and Raman spectroscopy (RS) would be performed. Photocatalytic activity performance was measured by the degradation of methyl blue (MB) in water assisted with visible light illumination. Additionally, the effects of GO concentration were also discussed.