Enhanced UV sensing properties of ZnO/GO nanocomposites by bending

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In this work, ZnO/GO nanocomposites were prepared by simple Solvothermal technique under 150℃ of synthetic temperature for 6 hours. Surface morphology and crystallinity characterization of ZnO/GO nanocomposites were investigated by Field emission scanning electron microscopy (FE-SEM), X-ray diffraction (XRD), Fourier transforms (FT-IR) and Raman spectroscopy (RS). UV sensing properties were measured both in dark and under UV illumination. Additionally, the effects of bending on substrate were also studied. The dark current was increased upto 3 times higher by bending and photosensitivity also increased about 123.59%.