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Comparative evaluation of organic removal using Ga2O3 and Ga2O3-reduced graphene oxide composite

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We report a simple but strong method to enhance sensitivity and responsibility of graphene oxide (GO) by forming a selfcorrugated surface of GO. The self-corrugated surface was formed by the reaction of graphene oxide with Gallium oxide. The surface of GO is more corrugated with the concentration of Gallium oxide during the dry process of GO solution. The GO structure was distorted due to the three hydroxyl groups of Gallium oxide to replace the existing GO structure. The properties of synthesized GO was investigated by scanning electron microscope, energy dispersive spectroscopy, X-ray diffraction, Raman spectra and atomic force microscope, respectively. This GO composite have superior advantages over normal Gallium oxide for a higher organic removal property and responsibility for water treatment.

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