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Optical bandwidth estimate of graphene oxides and multilayers of reduced graphene oxides

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In this paper we propose the study of the bandwidth in the multilayers of Graphene oxide (MGO) and thermally reduced graphene oxide (RMGO). The Raman spectroscopy technique (laser with an excitation wavelength of 532 nm) was used to determine the intensities of the D and G bands, in these spectra, with these the mean distance between defects (L_a) on the surface of multilayers, so we finally determine the optical bandwidth. The results show that the bandwidth is more stable to the variation of the laser power density, in addition, it decreases due to the thermal reduction. This fact provides a basis for estimating the optical bandwidth in Graphene Oxide and Reduced Graphene Oxide Multilayers.

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