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Title

Structural investigation of the graphite oxide and thermal reduced graphite oxide with terahertz spectroscopy

Source

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Abstract

This work present optical proprieties of graphite oxide and thermally reduced graphite oxide for five different temperatures: 100, 125, 150, 175, 200 degrees C. Molecular absorption spectra of the carbon structures were obtained using Time-Domain Spectroscopy (THz-TDS) Kit from EKSPLA Company. Usable spectral range from 100 GHz to 5 THz with spectral resolution 50GHz. Results obtained in THz spectroscopy showed that the carbon structure with different concentrations of oxygen have unique molecular spectrum.