Studying the nature of some graphite materials using Raman spectroscopy S. Kendouli1,, N.Sobti1, M. Baghriche1, O. Khalfallah2 and S. Achour3.

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Abstract

This work is a review of the application of Raman spectroscopy to nature of some carbon materials such as: identify the commercial graphite with various compositions. The RAMAN spectra show four bands D, G, D' and 2D bands. The G and 2D Raman peaks change in shape, position and relative intensity with number of graphene layers. These results were confirmed using XRD and FTIR. The samples were scanning electron microscopy analyzed using a to identify their morphologies.

Keywords: Raman spectroscopy; Graphite; Reduced graphite oxide.