

NFC Kenaf Core Graphene Paper: In-situ Method Application

Authors : M. A. Izzati, R. Rosazley, A. W. Fareezal, M. Z. Shazana, I. Rushdan, M. Jani

Abstract : Ultrasonic probe were using to produce nanofibrillated cellulose (NFC) kenaf core. NFC kenaf core and graphene was mixed using in-situ method with the 5V voltage for 24 hours. The resulting NFC graphene paper was characterized by field emission scanning electron microscopy (FESEM), fourier transformed infrared (FTIR) spectra and thermogavimetric analysis (TGA). The properties of NFC kenaf core graphene paper are compared with properties of pure NFC kenaf core paper.

Keywords : NFC, kenaf core, graphene, in-situ method

Conference Title : ICNMS 2015 : International Conference on Nano and Materials Science

Conference Location : Kuala Lumpur, Malaysia

Conference Dates : February 12-13, 2015