



Contribution ID: 376

Type: Oral Presentation

Vibrational properties of Mass produced graphene monolayer by chemical method

Thursday, 14 July 2011 11:45 (15 minutes)

Graphene is a two-dimensional crystal of carbon atoms arranged in a honeycomb lattice. It is a zero band gap semimetal with very unique electronic optical and mechanical properties which make it useful for many applications such as ultra-high-speed field-effect transistors, p-n junction diodes, terahertz oscillators, and low-noise electronic, NEMS and optical sensors. The high quality mass production of this nanomaterial is a big challenge, for this work we have used chemical method which helped to get this goal. Raman and FTIR vibrational spectroscopies were investigated to the examination of the production quality.

**Level (Hons, MSc,
 PhD, other)?**

PhD

**Consider for a student
 award (Yes / No)?**

Yes

**Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?**

Yes

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Session Classification: CMPMS1

Track Classification: Track A - Condensed Matter Physics and Material Science