



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_13453
Title of the Manuscript:	Nano-structural characterizations: Elongation of graphene layers within solid hydrocarbons
Type of the Article	Original research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Section 4.1 1. Figs. 1(a) & (b) are unable to show the grains size clearly, which may result in their wrong dimensions. Please replace the figures with the clearer ones.</p> <p>2. Author claimed that "Elongation indicating graphitization within HAC was observed in the graphene layers with the laser power in spite of the presence of high hydrogen content". Since elongation was observed with the presence of high hydrogen content in all materials, why author mentioned the fraction of incorporated hydrogen is smaller for the Fig. 1(c) at the same time. There is a contradiction between the two claims above. Please clarify them.</p> <p>Section 4.2 3. Please label all different all 3 functional groups in the Fig.2 for better justification. I notice that band of =C-H is hardly to be seen in the Fig.2.</p> <p>Section 4.3 4. Please explain reasons for the decrease in gap energy with the increasing annealing temperature. Use any relevant reference journals to prove your points as well.</p>	<p>I would like to thank the reviewer for his/her useful comments on my manuscript "Nano-structural characterizations: Elongation of graphene layers within solid hydrocarbons" in the Physical Science International Journal.</p> <p>Section 4.1 For point 1, Figs. 1(a) & (b) have been amplified by a factor of 2 and now they are clearer.</p> <p>For point 2, it is now clarified after the rewriting, please see the highlighted text.</p> <p>Section 4.2 For point 3, the 3 functional groups are now labelled on Figure 2, please see the figure.</p> <p>Section 4.3 For point 3, it is now explained, please find it in the highlighted text</p>



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<u>Minor</u> REVISION comments	1. In "Introduction" section, author did not explain briefly how the hydrogen content affects the properties of HAC. 2. In "Analytical Techniques", please explain further about optical absorption measurements to be used to probe the gap energy. Author should include any relevant journals as citation for the claim.	All these minor comments have been considered; please find them in the highlighted text.
<u>Optional/General</u> comments	None. Grammar and sentence Structures should be fine.	