



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_18853
Title of the Manuscript:	Formation of Magnetic Semiconductor Carbon Nanotubes via Iron Incorporation
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)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	This work presents the study on synthesis of carbon nanotubes (CNTs) encapsulated by iron (Fe), which aims to construct a magnetic semiconductors. Here iron incorporation was performed through powder mixing in which preparation and characterization was carried out in two different stages. The arc discharging process was used in preparation and purification of the sample was performed by acidic treatment, and open air oxidizing to remove the impurities. Characterization was done by using XRD, TEM, HRTEM, EDX, SEM and scanning tunneling microscopy (STM) techniques. As far as the fabrication of the CNT-Fe samples concern this article presented an interesting results, however here one would like to see the resulting material is really a semiconductor or not. Here Authors have to do some UV work to determine the band gap of the iron encapsulated carbon nanotubes. And they have to show how the variation of iron content affects the band gap of the produced semiconductor.	Thank you for your comment. We could not go for further instrumentation in addition to what we used due to limitations. However, the remaining characters can be identified with further experimental work and it is an open to all the scientific community.
<u>Optional/General</u> comments		