



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_12742
Title of the Manuscript:	Valorization of Cocoa shells (Theobroma cacao) for the production of Activated Carbon by Chemical Activation using H ₃ PO ₄ and KOH: Kinetic and Equilibrium Studies of Cu(II) ions Adsorption from Aqueous Solutions
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	COMMENTS AND SUGGESTIONS This work could be interesting but appears to me not well constructed and I think that the authors could improve several aspects. These are my comments and suggestions: 1. Please Re-write, organize and focus the purpose of activated carbon and its application for adsorption of Cu(II) from aqueous solutions. The originality of manuscript and important application of the piece of work has not been explained, focused and organized manner. Please try to focus on it. 2. What is the particle size of material, as it affect adsorption process. 3. In the adsorption studies, the value of adsorption capacity should be reported for particular metal ion. 4. The conclusion part should be brief and it is much elaborated which need to be altered.	1-Corrected 2-Powdered activated carbons were used 3-Only one metal ion was used i.e Cu(II) whose maximum adsorption capacity stood as 62.2 mg/g for PAA and 42.2 mg/g for PHA



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	5. Add purity and industrial preparation technique and cost effective prospective in experimental section. What is the cost of material synthesis? 6. Have author investigated the metal adsorption behavior of synthesized metal in absence of electrolyte. If those data can be interpreted, it would explain the rationality of effect of electrolyte. Please rationalize, why author investigated different electrolyte with different concentration. What is the motivation behind the investigation? 7. You have studied the adsorption behavior of metal by your activated carbon. 8. In results and discussion there are lots of scope to improve qualitative scientific explanation, please focus on it. 9. Abstract should be brief and you have given study design, methodology and result, should not be in the abstract. Finally I suggest a minor revision of the manuscript for the elimination of mistakes and repetition.	4-corrected 5-Cost free 6-No counter ion was used. Only HCl and NaOH were used for pH adjustment which does not have anything to do with the metal ion Yes 8-corrected 9- has been corrected as per the author's guide Thanks, all have been corrected
<u>Optional/General</u> comments		