



[SDI Review Form 1.6](#)

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_24551
Title of the Manuscript:	Production and Analysis of Pyrolysis Oil (Bio-Oil) From Mahogany Wood
Type of the 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 <i>(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)</i>
Compulsory REVISION comments	<p>Abstract You need to improve the summary. Is the article's calling card. As there will be additions, the block must be rewritten.</p> <p>Introduction Improve information about reactors including using references.</p> <p>Add a paragraph on analyzes to be carried out in the bio-oil with appropriate references.</p> <p>In the last paragraph of the introduction, direct the type of reactor that was used in the work based on the review of the reactors (previous paragraph).</p>	



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	<p>Materials and Methods</p> <p>2.2. Condenser Add larger information about Figure 3 and their letters a, b, c and d. If you want, can delete this image (should be some reference and may need to request authorization to use).</p> <p>Add information on the type of condenser cooling system used in pyrolytic reactor. The flow rate was in the same direction of pyrolysis gases or countercurrent (reverse</p>	
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	<p>flow)? By drawing in Figure 1 show that it was in the same direction. Generally the heat transfer is more efficient in reverse flow. If the condensing was in reverse flow modify the arrows in Figure 1.</p> <p>2.4. Design calculations Indicate the references consulted.</p> <p>2.5. Analyzes in the bio-oil Describe the experimental procedures of analyzes used for the characterization of the produced bio-oil. Do not forget to indicate the references consulted.</p> <p>Results and Discussion Add comments to discussions on the results obtained and comparison with some references or intention of the work.</p> <p>Increase the discussion on the outcome of the bio-oil spectrum.</p> <p>Conclusion Needs to improve to enable the reader understand the message of the work and its prospects. As there will be additions, the block must be revised.</p>	
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<p>Minor REVISION comments</p>	<p>Title of the article Very confusing. Difficult to understand the intention of work. Must present objective character and botanical name of the plant used. Here are some suggestions:</p> <p>Production and analysis of bio-oil from mahogany wood (<i>Genus species</i>)</p> <p>Production by pyrolysis and analysis of bio-oil from mahogany wood (<i>Genus species</i>)</p> <p>Pyrolysis of mahogany wood (<i>Genus species</i>) and analysis of produced bio-oil</p> <p>Note: It may be that the plant used was this: <i>Swietenia macrophylla</i>. If so, simply replace the term "genus species" for this new notation.</p> <p>Keywords Some keywords have been removed (above recommended by periodic) and no objectivity for search of theme. the botanical name of the plant (check the correct species)</p>	
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	<p>Materials and Methods</p> <p>Improving description of procedures of analyzes used for the characterization of the produced bio-oil (see references).</p> <p>Fig.1 - Modify the arrow showing the flow of the gas. Clarify the print of reactor material output. I put a suggestive arrow.</p> <p>Fig. 2 - (renumbered) - Remove the project details, information, contour risks of figure, leaving only images. Legend fulfills their informative function.</p> <p>Fig. 5 – Figure 5 could have better quality (not to be below the others listed).</p> <p>Results and Discussion</p> <p>3.3 Results of analysis for infrared spectroscopic</p> <p>Spectrum of bio-oil: This block is one of the most relevant items of work. Increase scientific information would be interesting for mixture of the chemical composition of the bio-oil. This action greatly raises the level of your article to the scientific community.</p>	
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<p>Optional/General comments</p>	<p>Centralize figures and tables to meet the journal's recommendations and make the most perfect article.</p> <p>Adjust references according rules of periodic.</p> <p>ADDITIONAL COMMENTS REVIEW: Some questions:</p> <ol style="list-style-type: none">1. Why the choice of mahogany wood for the production of bio-oil?2. This plant is not a very difficult species to find and is in global depletion phase?3. Would it not be more prudent to use other species more abundant, cheaper and simpler to oil?4. What is the cost for the manufacture of a reactor that can cater to small businesses?5. What is the cost of bio-oil compared to petroleum diesel and biodiesel?6. What are the possible organic compounds presents in bio-oil? <p>Note: The answers to these questions could improve and deepen the article.</p>	
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Reviewer Details:

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