



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Chemical Science International Journal</a>   |
| Manuscript Number:       | <b>Ms_CSIJ_41304</b>   |
| Title of the Manuscript: | <b>CORROSION INHIBITION AND ADSORPTION CHARACTERISTICS OF MYRIANTHUS arboreus LEAVES EXTRACT ON COPPER IN SULPHURIC ACID SOLUTION.</b> |
| 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 (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)   |
|-------------------------------------|---|---|
| <b>Compulsory</b> REVISION comments | <p>I would suggest a new title like "Sorption of <i>Myrianthus arboreus</i> extract (leaves) components onto copper and its properties as corrosion inhibitor under sulphuric media".</p> <p>All scientific nomenclature must be revised.</p> <p>Authors must work on a deep and careful English review, avoiding long sentences. It is equally recommended to use the names instead of [ref] at the beginning of sentences.</p> <p>I would suggest a Table summarizing efficiencies observed from [7] to [19], showing, when possible, the main responsible for the effect.</p> <p>Considering the complexity of the extract, how could authors calculate the molar concentrations? Were the extracts standardized? I would suggest to express only in terms of mg L<sup>-1</sup>.</p> <p>It is quite interesting the increasing of IE% when increasing temperature, especially considering that adsorption is essentially an exothermic event, authors must discuss this in deep.</p> <p>To complement the introductory part, I would suggest:</p> <p><a href="http://rvq.sbg.org.br/imagebank/pdf/v5n4a01.pdf">http://rvq.sbg.org.br/imagebank/pdf/v5n4a01.pdf</a></p> <p><a href="http://rvq.sbg.org.br/imagebank/pdf/v7n5a01.pdf">http://rvq.sbg.org.br/imagebank/pdf/v7n5a01.pdf</a></p> <p>I would suggest a deep and careful study of the paper:</p> <p><a href="http://dx.doi.org/10.1016/j.watres.2017.04.014">http://dx.doi.org/10.1016/j.watres.2017.04.014</a></p> | <ul style="list-style-type: none"> <li>• <b>No</b>, The molar concentration was not determined, the extract was prepared in g/l as indicated in line 87. (Sorry, it was just an oversight).</li> <li>• . Increase in percentage inhibition efficiency lead to decrease in corrosion rate. This may be attributed to a change in adsorption type from physical to chemical as temperature is increased (Atkins 2006).</li> </ul> |
| <b>Minor</b> REVISION comments      | <p>[1] in line 17 can be suppressed.</p> <p>Units could be corrected, for example, M should be replaced by mol L<sup>-1</sup>, according to IUPAC.</p> <p>The figures do deserve an improvement, as well as a deeper description regarding phytochemical analysis would sound great.</p>  | All minor comments have been corrected.   |