

# Review of: "Investigation of Mechanical Properties of Sisal Fiber and Sugar Palm Fiber Reinforced Hybrid Composites"

Samson Adeosun<sup>1</sup>

<sup>1</sup> University of Lagos

Potential competing interests: No potential competing interests to declare.

## REVIEWER'S COMMENTS

1. Abstract- There are editorial works to be done. State reasons for the better flexural strength and other properties as well.
2. Introduction- There are editorial works to be done. The application areas mentioned in the first paragraph should be supported with present materials available for the fabrication of the profiles. The problems with the use of the present materials in terms of inferior properties should be stated as the general shortcomings of the materials as well. These will pave the way for this present study after considering other related earlier studies to improve or mitigate against the functional demerits of conventional materials.
3. Section 2: There are things stated in this section that are to be taken to Section 1.
4. Section 3: There are things stated in this section that are to be taken to the Materials and Methods section.
5. Discussion: The discussion of results should be supported by literature when reasons have been provided to justify the behavioural pattern of the composites due to the filler additions.
6. Section 4.4: Last sentence: You should note that these fibres have different water absorption propensities. Carrying out the FTIR test on the fillers would have revealed the functional groups present in the fibres and the ones prone to water absorption.
7. Conclusions: The conclusion here lacks support regarding mechanisms and reasons for the observed results. The mechanical properties results would be better described with the aid of the microstructural using SEM/EDS analysis. This will be revealed if there are improvements in the interfacial interaction between the matrix and fillers at the different filler fractions. The presence of entanglements of fibres and pores would have been revealed.
8. **Recommendation- The paper should be accepted for publication after the minor editorial works observed in the paper have been done.**