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

Ali Sadooghi[1]

1 Shahid Rajaee Teacher Training University

Potential competing interests: No potential competing interests to declare.

Dear Editor

I have read the whole manuscript, and the below sentences are my ideas and comments regarding the authors' research. In the research, the experimental work, sisal fiber, and sugar palm fibers were used as reinforcement in different ratios to fabricate hybrid composites by the compression moulding technique while maintaining a total fiber loading of 30wt%, and some mechanical tests were done. In my point of view, some points were missed:

1. The written abstract must be rewritten, and more obtained quantitative results should be added.
2. The written literature review is not appropriate. The state-of-the-art manuscript must be added with coverage of the obtained results and relevance to the subject.
3. All the figures should be replaced by better quality figures.
4. There are lots of explanations regarding fibers and their production in the world. They should be shortened.
5. What did the authors mean about this sentence? According to which references? What chemical treatment?

"The chemical treatment of the fiber is aimed at improving the adhesion between the fiber surface and the polymer matrix. It will not only modify the fiber surface but also increase fiber strength"

1. What is the novelty of this research? Are there many research similarities to this project?
2. What was the procedure for sample production? What was the standard?
3. The explanation about the mechanical test is too wordy. I mean these explanations.

"Typical points of interest when testing a material include: ultimate tensile strength (UTS) or peak stress; offset yield strength (OYS), which represents a point just beyond the onset of permanent deformation; and the rupture (R) or fracture point where the specimen separates into pieces

The flexural load versus elongation was recorded for analysis. It is measured by loading the desired shape specimen with a span length at least three times the depth. The flexural strength or modulus of rupture is expressed in MPa"

1. The tensile results in Fig. 8 are too comical and uncommon. All the graphs have been copied and moved upward from sample 1 to sample 3. All the peaks and all the upward and downward movements of the 3 different samples were the same??????????????????????

2. The images of the final produced samples with their dimensions should be added.
3. Please add more explanation about the obtained results. The authors mostly reported the obtained numbers.
4. The SEM images of the failure cross section should be added.