Review of: "Valorization of palm oil wastes into oyster mushrooms (Pleurotus HK-37) and biogas production"

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Potential competing interests: No potential competing interests to declare.

The research conducted by the authors, titled "Valorization of Palm Oil Wastes into Oyster Mushrooms (Pleurotus HK-37) and Biogas Production," offers a promising approach to achieving sustainable mushroom production and effective waste utilization. This work represents an essential step towards addressing environmental and agricultural challenges associated with waste management and the demand for sustainable food sources.

However, several key points require attention before the research can be accepted or considered for further implementation. It is crucial to address the following comments and concerns:

Overall

1. Kindly check the grammar and units in manuscript

Introduction

1. Write and compare the pretreatment method of palm oil waste for other sustainable biology.
2. More literature survey required for effect of waste pretreatment on mushroom production as compared to raw waste.
3. The objective of article is missing in introduction.

Method and material

1. In mushroom production the authors need to add citation for Spawn preparation, Substrate preparation, Spawning, Fructification and fruit body development etc.
2. Can you use control substrate for your experiments?
3. All formula should be written in Cambria Math formate using equation formate
4. Is this all experiment performed in triplicates?
5. Why Biogas was collected for 40 days at an interval of 5 days? Please provide a citation.
6. Kindly add and write the details method of pretreatment of substrate.

Results

1. Figure 1, Y variables and unit axis unit is missing?
2. Conclusion is missing in every section.
3. Literature support is missing?

4. Kindly provide an error graph for all the results.

Conclusion

1. Kindly summarize the Key findings.