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Applications of nanocellulose and its composites in bio packaging-based starch

Corresponding author Dr. Melbi Mahardika

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Journal Materials Today: Proceedings

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Ms. Ref. No.: MATPR-D-22-06101R1

Title: Applications of nanocellulose and its composites in bio packaging-based starch

Materials Today: Proceedings

Dear Dr. **Melbi** Mahardika,

I am pleased to inform you that your paper "Applications of nanocellulose and its composites in bio packaging-based starch" has been accepted for publication

Below are comments from the editor and reviewers.

Thank you for submitting your work to Materials Today: Proceedings.

Yours sincerely,

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General Information about This Paper:
Paper ID: MATPR-D-22-06101 Paper Title: Application of nanocellulose and its composite in bio packaging-based starch Article Type: SI: ISPM 2022
Recommendation ()
A) Accept
B) Revise and Accept (Minor Revision) ✓
C) Major Revision and Resubmit
D) Reject
Comments
Confidential Comments to the Editor-in-Chief
Comments to the Author(s) Please summarise the topic of the research, and the key findings. (Limit 50 to 200 Characters) The authors presented a meaningful mini review discussing about the current technology and future issues in applying nanocellulose using starch as bio packaging material.
*What are the strengths of the manuscript? (Limit 50 to 200 Characters) The manuscript reviewed the current conventional materials in packaging and highlighting few recent research conducted using nanocellulose based materials, made from various material types and introduce starch-based biopolymer with nanocellulose as current potential one.
*Which areas of the manuscript could be improved, and why? (Limit 50 to 200 Characters)

The authors presented a significant review from their study. However, there are few revisions required to improve the paper. Firstly, perhaps the authors may use few more illustration diagram for example to show the development of the production process of bio packaging using conventional to biocellulose based materials. This would make the review paper in much more interactive way.

Secondly, the review perhaps should also include a critical review on how the starch-based bio packaging be analyzed in terms of their potential (as mentioned in the abstract, in which have not been elaborated further in the review). What kind of 'analysis of potential uses' would reflect the author's objective?

Thirdly, there are few sentences have not been clearly elaborated, and would give quite unclear meaning. For examples, in Part 2. Starch-based bio packaging production process and its composite. The elaboration of the process can be explained with the assistance of illustration or diagram. The citation of different researchers have been used and mixed when the authors described the process of bio packaging process

Fouthly, the conclusion also should be further revised as to conclude the objectives of the review and reflect the main outcomes from the critical review being made.

***Are the tables and figures in the manuscript clear, and if not, how can they be improved?** (Limit 50 to 200 Characters)

The figure in the manuscripts are clear, may be added few more to assist the elaboration.

***Is the paper well written, and free of spelling or grammatical errors?**

The paper is well written, however, there are few parts require a revision. There are few revisions would need to be carried out in order to improve the paper on how the citation being used. .

Would you be willing to review a revision of this manuscript? Yes (√) No ()



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Applications of nanocellulose and its composites in bio packaging-based starch

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Abstract

This mini-review discusses existing technology and future issues in applying nanocellulose as a starch-based packaging of food material. Biopolymers, mainly starch as packaging materials, are increasingly replacing petroleum plastics. This mini-review encompasses applying the commonly used nanocellulose starch-based bio packaging material, focusing on production processes, properties, and analysis of potential uses in starch-based bio packaging. The use of nanocellulose as an alternative material for