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Thu, Apr 9, 2020 at 12:38 PM

To: masturi@mail.unnes.ac.id

Dear Masturi Masturi,

This auto message confirms the receipt of your manuscript titled "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite" in the Materials Express office.

Another e-mail will be sent to you when the manuscript is accessioned by the handling editor. This message will include the manuscript's tracking number and information about accessing its history and current status report.

Thanking you,
With best regards.

Zhiyong Qian, Nongyue He
Editors-in-Chief
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Masturi UNNES <masturi@mail.unnes.ac.id>

Manuscript 20-16 (Materials Express)

mailer@mstracker.com <mailer@mstracker.com>
Reply-To: anderson-qian@163.com
To: masturi@mail.unnes.ac.id

Fri, Apr 10, 2020 at 8:42 AM

Dear Dr. Masturi,

Thank you for your recent submission of the manuscript entitled "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite."

It has been assigned a tracking number 20-16.

To obtain the history and current status of your manuscript, visit the address presented below and enter your last name as username and the tracking number as password.

Zhiyong Qian, Nongyue He
Editors-in-Chief
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<https://msTracker.com/history1.php?jc=mex>



Masturi UNNES <masturi@mail.unnes.ac.id>

Manuscript 20-16 Revision (Materials Express)

mailer@mstracker.com <mailer@mstracker.com>

Wed, May 27, 2020 at 11:55 AM

Reply-To: wujun29@mail.sysu.edu.cn

To: masturi@mail.unnes.ac.id

Cc: wujun29@mail.sysu.edu.cn

Dear Dr. Masturi,

Ms. Title: "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite."
Tracking No.: 20-16.

About one month back, you were advised to revise your above-mentioned manuscript. We normally allow 4 weeks to submit a revised manuscript. If you need more time, please let us know your possible date of revised submission.

In case you do not want to revise/resubmit to MATERIALS EXPRESS, please inform us so that we may close the file.

Sincerely,

Jun Wu
MATERIALS EXPRESS
<http://www.aspbs.com/MEX>

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Materials Express

Reviews of 20-16

"The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite"

Decision Letter

Ms. Title: "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite."
Tracking No.: 20-16.

Review reports of the above-mentioned manuscript have arrived (check the link below). Based on the Reviewers' comments and my own view, I think that we can publish your work after necessary revision. Please revise your manuscript following the reviewers' directions as soon as possible (no later than 4 weeks). The revised portion of the manuscript should be typed in red (or highlighted in yellow) for quick attention of the reviewers. Moreover, you must also submit a separate file "Authors' Reply", clearly writing your response to the reviewers' comments point-wise.

A compressed folder containing your revised manuscript and authors reply should be submitted online (<http://mstracker.com/submit1.php?jc=mex>).

Be sure the manuscript is formatted per our instructions to authors. When resubmitting, please quote the present tracking number in your cover letter.

Sincerely,

Jun Wu
MATERIALS EXPRESS
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Please provide your comments and suggestions considering the following points:

1. Is the article original with new important results?

Comments (if any)

2. Is the title of article appropriate?

Comments (if any)

3. Are the abstract and keywords appropriate?

Comments (if any)

4. Are the results obtained discussed scientifically?

Comments (if any)

5. Are the results obtained compared with recent reports of other groups?

Comments (if any)

6. Is the quality of illustrations and tables appropriate?

Comments (if any)

7. Are the references up-to-date and adequate?

Comments (if any)

8. Is the article well organized and clearly written?

Comments (if any)

9. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

10. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

Ratings

Please rate the following between 1 (low/poor) and 5 (high/excellent).

Significance to Field

Relevance to Journal

Methodology

Data Analysis

Literature Review

Writing Style/Clarity

Overall Significance and expected impact of this work:

Detailed comments to authors:

The authors report the the Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (*Swietenia mahagoni*) Leaves Waste Biocomposite. The addition of polyurethane and glass fiber mass fraction on biocomposite from mahogany leaves waste affected the physical and mechanical properties. The optimum ratio of mahogany leaves waste and polyurethane binder to produce biocomposite showed a compressive strength of 41.59 MPa, a density of 1.060 g/cm³, water absorption of 6.98%, and a thickness development of 7.27%. The addition of glass fiber material was proven to be able to increase the compressive strength of biocomposites to 57.68 MPa. The addition of glass fiber to biocomposites also succeeded in improving physical properties. The testing of glass fiber reinforced biocomposites resulted in a density of 1.140 g/cm³, water absorption of 5.42%, and thickness development of 8.18%. The work is clear and meaningful, the idea is good and interesting, therefore the work deserve to be published, however some points should be further clarified, therefore minor revisions are still needed:

1. Some grammar errors still should be carefully checked through the manuscript.
2. In the abstract part, as for the composite material, one or two examples should be introduced in detail.
3. In the abstract part, as for the composite material, as for the expression "Composite are widely applied in various fields, one of which is a wood particleboard replacement", some related literatures such as Journal of Materials Chemistry B 2019, 7, 709-729; ACS Applied Materials & Interfaces 2019, 11(1):176-186. Small 15 (38), 1903121
4. as for the results and discussion part, different amount of precursor for the effect of the composite include the type and

shape of particles, density, compressive strength, filler, and binder should be considered.

5. As for the FT-IR results, as for the expression “(The mahogany leaves waste also showed at the peak of 1615 cm⁻¹, which identified a C=C bond that showed functional groups of the aromatic conjugated carbonyl.”, some recent literature should be added such as Journal of Hazardous Materials, 2020, 383: 121152 , Adv Healthc Mater. 2019, 1901100

6. as for the biocomposite, the Toxicity experiment of the composite should be determined.

7. In the conclusion part, the current work meaning should be further emphasized.

Comments for the editor only:

Recommendation

Please provide your comments and suggestions considering the following points:

1. Is the article original with new important results?

Comments (if any)

2. Is the title of article appropriate?

Comments (if any)

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Comments (if any)

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Comments (if any)

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Comments (if any)

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Comments (if any)

9. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

10. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

Ratings

Please rate the following between 1 (low/poor) and 5 (high/excellent).

Significance to Field

	3	▼
Relevance to Journal	4	▼
Methodology	3	▼
Data Analysis	3	▼
Literature Review	3	▼
Writing Style/Clarity	3	▼

Overall Significance and expected impact of this work:

Detailed comments to authors:

1. There is a number of grammatical errors such as mixing up singular and plural that need correction, for example, line 1, 6 and 7 in INTRODUCTION.
2. It's recommended to discuss the future direction after the current work.

Comments for the editor only:

Recommendation ▼

Please provide your comments and suggestions considering the following points:

1. Is the article original with new important results? ▼

Comments (if any)

2. Is the title of article appropriate? ▼

Comments (if any)

3. Are the abstract and keywords appropriate? ▼

Comments (if any)

4. Are the results obtained discussed scientifically? ▼

Comments (if any)

5. Are the results obtained compared with recent reports of other groups? ▼

Comments (if any)

6. Is the quality of illustrations and tables appropriate? ▼

Comments (if any)

7. Are the references up-to-date and adequate? ▼

Comments (if any)

8. Is the article well organized and clearly written? ▼

Comments (if any)

9. Are the conclusions justified and corroborated with the results obtained? ▼

Comments (if any)

10. Are the conclusions justified and corroborated with the results obtained? ▼

Comments (if any)

Ratings

Please rate the following between 1 (low/poor) and 5 (high/excellent).

Significance to Field

Relevance to Journal

Methodology

Data Analysis

Literature Review

Writing Style/Clarity

Overall Significance and expected impact of this work:

Detailed comments to authors:

In this work, the effect of polyurethane binder and glass fiber as reinforcement on physical and mechanical properties of mahogany (*Swietenia mahagoni*) leaves waste biocomposite was investigated. Mahogany leaves waste has been successfully synthesized into a biocomposite material that is strong and lightweight by using a polyurethane binder and glass fiber as reinforcement. However, comments/advice to this work are listed as following:

1. To be frankly, this work lack novelty, there was no obvious advantages comparing to the current products.
2. Data support is insufficient, more relevant experiments should be added.
3. It's too old for many cited refs, and some theories may have been updated. Please try to cite recent references.

Comments for the editor only:

Recommendation

Please provide your comments and suggestions considering the following points:

1. Is the article original with new important results?

Comments (if any)

2. Is the title of article appropriate?

Comments (if any)

3. Are the abstract and keywords appropriate?

Comments (if any)

4. Are the results obtained discussed scientifically?

Comments (if any)

5. Are the results obtained compared with recent reports of other groups?

Comments (if any)

6. Is the quality of illustrations and tables appropriate?

Comments (if any)

7. Are the references up-to-date and adequate?

Comments (if any)

8. Is the article well organized and clearly written?

Comments (if any)

9. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

10. Are the conclusions justified and corroborated with the results obtained?

Comments (if any)

Ratings

Please rate the following between 1 (low/poor) and 5 (high/excellent).

Significance to Field

Relevance to Journal

Methodology

Data Analysis

Literature Review

Writing Style/Clarity

Overall Significance and expected impact of this work:

Detailed comments to authors:

In the article titled "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (*Swietenia mahagoni*) Leaves Waste Biocomposite", the effect of polyurethane binder and glass fiber as reinforcement on physical and mechanical properties of mahogany (*Swietenia mahagoni*) leaves waste biocomposite was investigated. After serious consideration, I think it is suitable to be published after minor revision. Some comments are appended as follows:

1. For the abstract, "The mass fraction of polyurethane was varied between 0.25-1.50" should be ""The mass fraction of polyurethane was varied between 0.25-1.50 g" ?
2. For Fig. 3, Fig. 4, Fig. 5 and Fig. 6, I did not see the significant difference analysis.
3. The writing format should be in accordance with the Materials Express requirements.
4. English writing needs to be improved to benefit readers.

Comments for the editor only:

Recommendation

Current ancillary file:

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Manuscript 20-16-R Decision

wujun29@mail.sysu.edu.cn <wujun29@mail.sysu.edu.cn>
To: masturi@mail.unnes.ac.id

Mon, Jun 8, 2020 at 6:37 PM

Dear Dr. Masturi:

Ms. Title: "The Effect of Polyurethane Binder and Glass Fiber Reinforcement on Physical and Mechanical Properties of Mahogany (Swietenia mahagoni) Leaves Waste Biocomposite."
Tracking No.: 20-16-R.

Based on the Reviewers' recommendation and my own view on your revised manuscript, I am pleased to inform you that it has been finally ACCEPTED for publication in MATERIALS EXPRESS.

Please follow this procedure for sending the following files to ASP by email to Dr. Zhiyong Qian (anderson-qian@163.com).

(I). Kindly insert your Email Address and Date of Submission (MMDD, Year) and Date of Acceptance (MMDD, Year) on the FIRST page (between the addresses and abstract) of your manuscript.

(II). Please send (1) manuscript (with Ms#) as a single file in MS Word format having Graphical Abstract (please see the attached sample) in the end ; Please revise your manuscript according to the attached MEX's format, and please pay more attention to the format of the references.

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If you have any further enquires about your article, please contact Dr. H. S. Nalwa at jnn@aspbs.com.

A proof of your manuscript will arrive within the next weeks after you returned the required files to Dr.Qian at anderson-qian@163.com.

Thank you so much once again for your excellent contribution to MATERIALS EXPRESS.

I take this opportunity to wish you more success in your research, and look forward to working with you again!

Sincerely,

Jun Wu
MATERIALS EXPRESS
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With best regards.

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