KJCE-D-21-00500R1 : Your PDF Has Been Built

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Korean Journal of Chemical Engineering (KJCE) <em@editorialmanager.com> Sat, Jul 3, 2021, 6:50 AM

to me

Dear Mr AMRULLAH,

The PDF for your manuscript, "Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue" is ready for viewing.

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KJCE-D-21-00500 : Submission Confirmation for Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue

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Inbox

Korean Journal of Chemical Engineering (KJCE) <em@editorialmanager.com> Thu, May 20, 2021, 11:16 PM

to me

Dear Mr AMRULLAH,

Thank you for submitting your manuscript, Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue, to Korean Journal of Chemical Engineering.

The submission id is: KJCE-D-21-00500

Please refer to this number in any future correspondence.

During the review process, you can keep track of the status of your manuscript by accessing the Editorial Manager Website.

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With kind regards,
Springer Journals Editorial Office
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ReplyForward

KJCE : Your manuscript entitled Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue

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Inbox

Si Jae Park <em@editorialmanager.com> Jun 26, 2021, 9:40 AM

to me

CC: kdhh@chonnam.ac.kr

Dear Mr AMRULLAH,

Reviewers have now commented on your paper. You will see that they are advising that you revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision.

The reviewers' comments can be found at the end of this email or can be accessed in the Editorial Manager Website.

Your username is: apipamrullah
If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at https://www.editorialmanager.com/kjce/

When revising your work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript.

Your revision is due by 24 Aug 2021.

'Please make sure to submit your editable source files (i.e.Word, TeX).'

To submit a revision, go to https://www.editorialmanager.com/kjce/ and log in as an Author. You will see a menu item called 'Submissions Needing Revision'. You will find your submission record there.

With kind regards,
Si Jae Park
Associate Editor
Korean Journal of Chemical Engineering

COMMENTS TO THE AUTHOR:

Reviewer #1: This submission presents an interesting work on the solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue. The authors applied experimental design methodology to couple with kinetic analysis for output evaluation and to go for pyrolysis of lignocellulosic materials. The research is on hot topics, solid state degradation, biochar addition, kinetics are all focuses of study. This study can attract the attention of other researchers.
The parts this study need revision include (1) the justification of the methodology used; (2) the interpretation of the experimental data obtained; (3) the link of this study to the full-scale applications, considering the very different scales of tests being performed; (4) the link to Chemical Engineering, as the present journal is.
Considering the potential interest this study can attract from academia, if the authors can properly revise and condense it nicely, it is possible to include this study as a communication research upon the approval of the Editors.

Reviewer #2: Interesting paper using potential feedstock and covers not only biooil but also chemical as the products with its yield, reaction rate and activation energy.
Please explain more reasons of why CS, LWR and their mixture is selected as the feedstock?
What about lignin composition analysis for each feedstock? Was it measured? Please include it as well in the discussion
The different result between the feedstock based on the composition or other aspects needs to be deeply discussed
Comparison to previous literature need to be discussed in more details
The discussion of bio oil as fuel product can be elaborated more such as whether the yield is optimum or not.
Please add recommendation based on the study result.
This paper will be more impactful with deeper discussion on the mechanism of different feedstock that cause different result. The effect of feedstock mixture further exploration may lead to more interesting finding.

Please check the attached file.

Reviewer #3: This work devoted to assess the production of renewable phenol through pyrolysis of biomass in tropical region. The result of this work is useful for readers of this journal. I suggest the publication of this paper after minor revision.
1. Abstract is vague. A few quotes need to be removed and some information must be added.
2. Page 3, line 14-19: references?
3. Page 3, line 55: (Fan et al. 2020; Razavian and Fatemi, 2021) references must be in numerical mode. This is seen in some other points of paper.

4. Why authors only assess the effect of temperature?
5. Page 5, line 33: ASTM D3172 method was used to analyze the… references??
6. Authors must present information about the usage of bio phenol in introduction.
7. Authors can investigate the effect of other operative parameters in the future works.
8. Further, to investigate several operative parameters in future works, they need to design a perfect experimental layout. For more information authors could read these works: Optimization of several hydrodynamic and non-hydrodynamic operating parameters in treatment of synthetic wastewater containing wheat starch in a sequencing batch reactor (SBR) using response surface methodology, Desalination and Water Treatment, 57 (2016) 24240-24256.
Investigating and modeling the cleaning-in-place process for retrieving the membrane permeate flux: Case study of hydrophilic polyethersulfone (PES), Journal of the Taiwan Institute of Chemical Engineers, 62 (2016) 150-157.

9. There are many formula in the text, some of them could be moved to appendix.

__
There is additional documentation related to this decision letter. To access the file(s), please click the link below. You may also login to the system and click the 'View Attachments' link in the Action column.
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In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following

URL: https://www.editorialmanager.com/kjce/login.asp?a=r). Please contact the publication office if you have any questions.

Reply to the reviewers' comments

The authors are enormously grateful for the helpful comments from the reviewers. The following are the reply to the comments. Thank you very much for your kind consideration. The line numbers refer to those in the revised manuscript.

Reviewer Comments:

Reviewer #1: This submission presents an interesting work on the solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue. The authors applied experimental design methodology to couple with kinetic analysis for output evaluation and to go for pyrolysis of lignocellulosic materials. The research is on hot topics, solid state degradation, biochar addition, kinetics are all focuses of study. This study can attract the attention of other researchers.

Some comments are as follows:

1. The justification of the methodology used

Thank you very much for your suggestion.

This present study following the methodology of previous papers published in high quality journals. It has been mentioned in the methodology part.

2. The interpretation of the experimental data obtained

Thank you very much for your suggestion.

The manuscript has been revised following the reviewer's comment (L.137-142)

3. The link of this study to the full-scale applications, considering the very different scales of tests being performed

Thank you very much for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.164-171)

4. The link to Chemical Engineering, as the present journal is

Thank you very much for your comment.

The link to Chemical Engineering has been mentioned in the result and discussion part, especially on the reaction kinetics it was developed in this study.

We would like to ask for the reviewer's understanding.

Reviewer #2: Interesting paper using potential feedstock and covers not only biooil but also chemical as the products with its yield, reaction rate and activation energy

1. Please explain more reasons of why CS, LWR and their mixture is selected as the feedstock?

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.84-90).

2. What about lignin composition analysis for each feedstock? Was it measured? Please include it as well in the discussion.

Thank you for your comment.

We are sorry, the author did not conduct an analysis related to the composition of lignin. However, this seems interesting to do in the future. We would like to ask for reviewer's understanding.

3. The different result between the feedstock based on the composition or other aspects needs to be deeply discussed.

Thank you for your great suggestion.

I agree with reviewer suggestion. The information has been mentioned in the result and discussion part.

4. Comparison to previous literature need to be discussed in more details.

Thank you for your great suggestion.

I agree with reviewer suggestion. The information has been mentioned in the result and discussion part

5. The discussion of bio-oil as fuel product can be elaborated more such as whether the yield is optimum or not.

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.200-203).

6. Please add recommendation based on the study result.

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.298-302).

7. This paper will be more impactful with deeper discussion on the mechanism of different feedstock that cause different result. The effect of feedstock mixture further exploration may lead to more interesting finding.

Thank you for your great suggestion.

We strongly agree that the mixed raw material effect can lead to more profound insightfully. Therefore, this looks very interesting and has good potential if it is focused on the future. We would like to ask for the reviewer's understanding.

Reviewer #3: This work devoted to assess the production of renewable phenol through pyrolysis of biomass in tropical region. The result of this work is useful for readers of this journal. I suggest the publication of this paper after minor revision.

1. Abstract is vague. A few quotes need to be removed and some information must be added.

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.29-38).

2. Page 3, line 14-19: references?

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.50).

3. Page 3, line 55: (Fan et al. 2020; Razavian and Fatemi, 2021) references must be in numerical mode. This is seen in some other points of paper.

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.65).

4. Why authors only assess the effect of temperature?

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.94-95).

5. Page 5, line 33: ASTM D3172 method was used to analyze the… references??

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.109).

6. Authors must present information about the usage of bio phenol in introduction.

Thank you for your great suggestion.

The manuscript has been revised following the reviewer's comment (L.63-75).

7. Authors can investigate the effect of other operative parameters in the future works.

Thank you for your great suggestion.

We strongly agree that will be interesting to do as the future target.

8. Further, to investigate several operative parameters in future works, they need to design a perfect experimental layout. For more information authors could read these works: Optimization of several hydrodynamic and non-hydrodynamic operating parameters in treatment of synthetic wastewater containing wheat starch in a sequencing batch reactor (SBR) using response surface methodology, Desalination and Water Treatment, 57 (2016) 24240-24256.

Investigating and modeling the cleaning-in-place process for retrieving the membrane permeate flux: Case study of hydrophilic polyethersulfone (PES), Journal of the Taiwan Institute of Chemical Engineers, 62 (2016) 150-157.

Thank you for your great suggestion.

We strongly agree that will be interesting to do as the future target.

9. There are many formulas in the text, some of them could be moved to appendix.

Thank you for your great suggestion.

However, a detailed explanation should be desirable to avoid any misunderstanding for the reader. Thank you and we would like to ask for the reviewer's understanding.

KJCE : Submission Confirmation for KJCE-D-21-00500R1 - [EMID:d198298676a4feb7]

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Inbox

Korean Journal of Chemical Engineering (KJCE) <em@editorialmanager.com> Sat, Jul 3, 2021, 6:53 AM

to me

Ref.: Ms. No. KJCE-D-21-00500R1
Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue

Dear Mr AMRULLAH,

Korean Journal of Chemical Engineering has received your revised submission.

You may check the status of your manuscript by logging onto Editorial Manager at https://www.editorialmanager.com/kjce/.

Kind regards,

Editorial Office
Korean Journal of Chemical Engineering

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If you need more time at any stage of the peer-review process, please do let us know. While our systems will continue to remind you of the original timelines, we aim to be as flexible as possible during the current pandemic.

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KJCE : Your manuscript entitled Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue

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Inbox

Si Jae Park <em@editorialmanager.com> Sun, Aug 8, 2021, 6:52 PM

to me

CC: kdhh@chonnam.ac.kr

Dear Mr AMRULLAH,

Reviewers have now commented on your paper. You will see that they are advising that you revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision.

The reviewers' comments can be found at the end of this email or can be accessed in the Editorial Manager Website.

Your username is: apipamrullah
If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at https://www.editorialmanager.com/kjce/

When revising your work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript.

Your revision is due by 07 Oct 2021.

'Please make sure to submit your editable source files (i.e.Word, TeX).'

To submit a revision, go to https://www.editorialmanager.com/kjce/ and log in as an Author. You will see a menu item called 'Submissions Needing Revision'. You will find your submission record there.

With kind regards,
Si Jae Park

Associate Editor
Korean Journal of Chemical Engineering

COMMENTS TO THE AUTHOR:

Reviewer #1: Authors have answered al the queries.

Reviewer #2:
Line 2: Is lamtoro supposed to be written with Capital L?
Line 48 seems to be more suitable to be put at Line 46, followed by the "Therefore.."
Line 55: Support the statement of inexpensive and abundantly available with data.
Line 59: Support the statement "promising" with description or data.
Line 83: The availability of CS and LWR will be more convincing with quantitative data, including potential amount or value of product.
Line 89: Describe why temperature is important to be investigated?

The feedstock type was introduced as the motivation to conduct this study, including in mixture, yet the discussion does not cover the impact of this variety.
The composition of feedstock (cellulose, hemicellulose, lignin for example) needs to be included as part of the discussion as well, especially considering phenol especially as product from lignin content.

—

Reply to the reviewers' comments

The authors are enormously grateful for the helpful comments from the reviewers. The following are the reply to the comments. Thank you very much for your kind consideration. The line numbers refer to those in the revised manuscript.

Reviewer Comments:

Reviewer #2:

Line 2: Is lamtoro supposed to be written with Capital L?

Thank you very much for your suggestion.

The manuscript has been revised following the reviewer's comment.

Line 48 seems to be more suitable to be put at Line 46, followed by the "Therefore.."

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.46)

Line 55: Support the statement of inexpensive and abundantly available with data.

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.56-61)

Line 59: Support the statement "promising" with description or data.

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.63-66)

Line 83: The availability of CS and LWR will be more convincing with quantitative data, including potential amount or value of product.

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.88-92)

Line 89: Describe why temperature is important to be investigated?

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.100-101)

The feedstock type was introduced as the motivation to conduct this study, including in mixture, yet the discussion does not cover the impact of this variety. The composition of feedstock (cellulose, hemicellulose, lignin for example) needs to be included as part of the discussion as well, especially considering phenol especially as product from lignin content.

Thank you for your suggestion.

The manuscript has been revised following the reviewer's comment (L.220-222 and L.230-233)

KJCE : Your manuscript entitled Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue - [EMID:9fd839fe9dc8195b]

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Inbox

Si Jae Park **<em@editorialmanager.com>**

Wed, Aug 11, 2021, 11:56 AM

to me

Ref.:
Ms. No. KJCE-D-21-00500R2

Solid degradation and its kinetics on phenol-rich bio-oil production from pyrolysis of coconut shell and lamtoro wood residue

Korean Journal of Chemical Engineering

Dear Mr AMRULLAH,

I am pleased to tell you that your work has now been accepted for publication in Korean Journal of Chemical Engineering.

Thank you for submitting your work to this journal.

The editorial office hopes your accepted paper to be cited in SCI and SCIE journals by many researchers and yourself.

With kind regards

Si Jae Park
Associate Editor
Korean Journal of Chemical Engineering

COMMENTS TO THE AUTHOR: