



Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Registration Welcome Notification for Biomass Conversion and Biorefinery

1 message

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Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Sun, Jan 22, 2023 at 1:03 AM

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Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

AU - Original PDF Built by Author

1 message

BCAB - Editorial Office <em@editorialmanager.com>
Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Sun, Jan 22, 2023 at 1:54 PM

Dear Dr Pulungan,

The PDF for your manuscript, "Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst" is ready for viewing.

In order to formally submit your manuscript to the journal, you must approve the PDF.

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Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

BCAB-D-23-00256 - Submission Confirmation - [EMID:ddeeddb9575c7987]

1 message

BCAB - Editorial Office <em@editorialmanager.com>
Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Sun, Jan 22, 2023 at 2:08 PM

Dear Dr Pulungan,

Your submission entitled "Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst" has been received by Biomass Conversion and Biorefinery

The submission id is: BCAB-D-23-00256
Please refer to this number in any future correspondence.

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Alternatively, please call us at 001-630-468-7784 (outside the US)/(630)-468-7784 (within the US) anytime from Monday to Friday.

Your manuscript will be given a reference number once an Editor has been assigned.

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Kind regards,

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Biomass Conversion and Biorefinery

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**Author Approve Changes or submits updated ms by author -
[EMID:9bd062d5da84452f]**

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BCAB - Editorial Office <em@editorialmanager.com>

Tue, Jan 24, 2023 at 2:45 PM

Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>

To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Dear Dr Pulungan,

Re: Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst

Thank you for approving the changes that the Editor made to your submission or updating your submission according to the requested changes.

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BCAB: Your manuscript entitled Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst

1 message

Theresa Siegmund <em@editorialmanager.com>
Reply-To: Theresa Siegmund <bcab7@tuhh.de>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Thu, Mar 2, 2023 at 9:22 PM

CC: "Ronn Goei" ronn_goei@ntu.edu.sg, "Agus Kembaren" kembarenagus@gmail.com, "Nurfajriani Nurfajriani" nurfajriani@unimed.ac.id, "Junifa Layla Sihombing" junifalaylasihombing@unimed.ac.id, "Saharman Gea" s.gea@usu.ac.id, "Hana Ria Wong" hanaria2404@gmail.com, "Muhammad Irvan Hasibuan" muhammadirvan27h@gmail.com, "Rahayu Rahayu" ayurah365@gmail.com, "Alfred ling Yoong Tok" miytok@ntu.edu.sg

Ref.:

Ms. No. BCAB-D-23-00256

Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst
Biomass Conversion and Biorefinery

Dear Dr Pulungan,

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 by following the provided link.

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Your revision is due by 01 Apr 2023.

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

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Yours sincerely

Martin Kaltschmitt
Editor-in-Chief
Biomass Conversion and Biorefinery

Reviewers' comments:

Reviewer #1: The paper deals about the Bio-oil upgrading through the HDO and Esterification reactions. The paper presented all the experimental and the characterization procedures which corroborated the objectives proposed. However, some relevant information should be inserted to improve the results and discussion. I accept the publication as long as the following questions are correctly answered.

2.Experimental Section/ 2.1 Materials:

- What is the Si/Al ratio value of Mordenite zeolite?
- Could the authors answer if there is a contribution from the Brønsted acid sites of the Modernite zeolite in any of these stages of palm bio-oil upgrading, i.e., esterification, HDO or both reactions?

2. Experimental Section/ 2.2 Preparation of Bio-oil:

- What are the operational conditions of semi-fast pyrolysis method? Temperature? Pressure? Residence time?
- The authors used 50 g of crushed palm oil leaves. Did the authors obtain the absolute dry content of this powder? Did the authors analyze the moisture content of crushed palm oil leaves? Karl Fischer analysis, for example.
- What type of reactor have the authors employed in the semi-fast pyrolysis method? What about in the HDO and esterification reactions? Please describe precisely all the reactors, or cite if these are commercial reactors.

2. Experimental Section/ 2.3 Preparation of Catalyst:

- The authors mentioned that "Mordenite was thermally activated by calcination at 500 °C under N₂ atmosphere in a fixed-bed reactor". The thermal treatment under these conditions is not a procedure to activate zeolites. What do the authors mean about activating zeolites at 500 °C under N₂ atmosphere? The thermal treatment makes sense only to remove the synthesis template compound, making the zeolite chemically accessible to receive Fe and Co during the impregnation stage.

2. Experimental Section/ 2.4 Catalyst Characterization:

- Did the authors obtain the acid sites concentration of catalysts? NH₃-TPD analysis or Piridine FTIR, for example.
- Did the authors conduct TEM/EDS analysis to identify metal particles in the zeolite-supported Fe/Co-based catalysts? What about SEM analysis to identify the carbon species formed during HDO and Esterification reactions?

3. Results and Discussions/ 3.1 Catalyst Crystallinity

- The authors mentioned that "Amorphous particles surrounding the crystal can be removed by calcination followed by the introduction of metals into the cavities in mordenite". Is it not possible to assume that amorphous material exists based only on these XRD data.
- I recommend the authors not to compare the crystallinity of the Mordenite zeolite before and after the impregnation stage because the XRD analysis is a qualitative analysis. The comparison between both XRD powder patterns (Fig) would only be possible using specific softwares or specific analyses. Rietveld analysis, for example.

3. Results and Discussions/ 3.4 Constituent of the Raw Bio-oil

- How the authors defined the abundance (%) of Table 4? The GC-MS equipment provides the qualitative analysis of materials. Did the authors use the GC with FID and standard reagents to obtain the abundance (%)?
- How the authors obtain the yield (%) of Fig. 5?
- Did the authors measure the conversion, selectivity and stability of zeolite-supported Fe/Co-based catalysts?
- Did the authors measure the H₂ consumption rate and the CO₂ production rate during the HDO reaction?

Reviewer #2: In this manuscript, the authors present "Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst". After careful evaluation of the manuscript, I do recommend the publication of this manuscript in the Biomass Conversion and Biorefinery Journal after major revision.

Comments:

1. There are some typos in the paper. Page 2, line 9 (Fe₂O₃-CoO) anchored inside zeolite mordenite (Fe₂O₃-CuO/Mor), for example, should be Fe₂O₃-CoO/Mor, and page 3, line 27 Cuprum (Cu), and so on. Throughout the manuscript, check and correct the Language and grammar.
2. How much Fe and Co content is in the Fe₂O₃-CoO/Mor catalyst? Provide ICP-AES analysis.
3. It is surprising to note that there is no change in the BET surface or pore volume of the zeolite following Fe₂O₃-CoO loading, even after the agglomeration of Fe₂O₃ and CoO particles.
4. The authors could include more catalyst characterization data, such as TEM, XPS, and H₂-TPR, to better understand the catalyst's physicochemical characteristics. The authors should also include the Fe₂O₃-CoO/Mor catalyst characterization after the reaction to determine any structural and morphological changes in the catalyst.
5. In Fig. 6, the phenol concentration of the esterification-HDO sample is nil. How is it even possible? What reaction mechanism is at work in this reaction?
6. How about the activity of Fe₂O₃/Mor and CoO/Mor catalysts on esterified bio-oil HDO?
7. Describe the influence of temperature on the HDO of esterified bio-oil.

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Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

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Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Sat, Apr 1, 2023 at 3:20 PM

Dear Dr Pulungan,

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Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

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To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Sat, Apr 1, 2023 at 3:26 PM

Ref.: Ms. No. BCAB-D-23-00256R1
Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst

Dear Dr Pulungan,

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Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

**Author Approve Changes or submits updated ms by author -
[EMID:57eabe806464b03a]**

1 message

BCAB - Editorial Office <em@editorialmanager.com>

Wed, Apr 5, 2023 at 11:35 AM

Reply-To: BCAB - Editorial Office <denisse.mendiola@springer.com>

To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Dear Dr Pulungan,

Re: Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst

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Kind regards,

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Martin Kaltschmitt <em@editorialmanager.com>
Reply-To: Martin Kaltschmitt <kaltschmitt@tu-harburg.de>
To: Ahmad Nasir Pulungan <nasirpl@unimed.ac.id>

Tue, Apr 18, 2023 at 12:35 AM

CC: "Ronn Goei" ronn_goei@ntu.edu.sg, "Agus Kembaren" kembarenagus@gmail.com, "Nurfajriani Nurfajriani" nurfajriani@unimed.ac.id, "Junifa Layla Sihombing" junifalaylasihombing@unimed.ac.id, "Saharman Gea" s.gea@usu.ac.id, "Hana Ria Wong" hanaria2404@gmail.com, "Muhammad Irvan Hasibuan" muhammadirvan27h@gmail.com, "Rahayu Rahayu" ayurah365@gmail.com, "Alfred ling Yoong Tok" miytok@ntu.edu.sg

Ref.:

Ms. No. BCAB-D-23-00256R1

Two Stages Upgrading of Bio-Oil Through Esterification and Hydrodeoxygenation Reactions using Fe₂O₃-CoO Supported Catalyst
Biomass Conversion and Biorefinery

Dear Dr Pulungan,

I am pleased to tell you that your work has now been accepted for publication in Biomass Conversion and Biorefinery.

Thank you for submitting your work to this journal.

With kind regards

Martin Kaltschmitt
Editor-in-Chief
Biomass Conversion and Biorefinery

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eproofing@springernature.com <eproofing@springernature.com>

Mon, Apr 24, 2023 at 12:36 AM

Reply-To: CorrAdmin1@spi-global.com

To: nasirpl@unimed.ac.id

SPRINGER NATURE

Article Title : Two stages upgrading of bio-oil through esterification and hydrodeoxygenation reactions using Fe₂O₃-CoO supported catalyst

DOI : 10.1007/s13399-023-04237-2

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Tue, Apr 25, 2023 at 12:21 PM

Journal: Biomass Conversion and Biorefinery.

DOI : 10.1007/s13399-023-04237-2

Title : Two stages upgrading of bio-oil through esterification and hydrodeoxygenation reactions using Fe_2O_3 -CoO supported catalyst.

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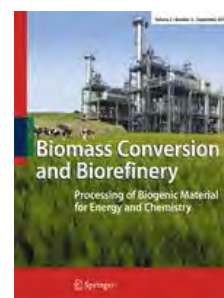
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