



Hasanudin Hasanudin <hasanudin@mipa.unsri.ac.id>

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27 Juni 2022 10.28

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27-Jun-2022

Dear Dr Hasanudin:

TITLE: Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite

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Decision on submission to RSC Advances - RA-ART-06-2022-003941

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11-Jul-2022

Dear Dr Hasanudin:

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TITLE: Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite

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I have carefully evaluated your manuscript and the reviewers' reports, and the reports indicate that major revisions are necessary.

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I look forward to receiving your revised manuscript.

Yours sincerely,
Prof. Dr. Tiancheng Mu
Associate Editor,
RSC Advances

REVIEWER REPORT(S):

Referee: 1

Recommendation: Major revisions

Comments:

The topic is worth of investigating. However, I have some suggestion.

I suggest to merge Figures 1, 2, 3 and 5. Figures 4, 6 and 8 could be merged too.

It is very important to compare this results with previous published results, so please provide a table on this point. So the reviewer could examine the advance of the work.

To a research article rather than a review article, it seems that there are too many references cited. I suggest to reconsider the literatures cited to see whether they are necessary.

I do not think the TOC picture is appropriate.

Additional Questions:

Does the work significantly advance the understanding or development in this field?: No

Is this work of relevance to the chemistry community?: Yes

Are the conclusions of the work convincing and sufficiently supported by experimental evidence?: No

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Are the reported claims adequately discussed in the context of the literature?: No

Are the number of tables and figures in the manuscript appropriate and clear?: No

Referee: 2

Recommendation: Minor revisions

Comments:

The authors have written well, the work is original, and will add new information to the target community.

I recommend that authors reduce the number of citations from more than 100 to a maximum of 50 in the present case. It is not a review article so, only the most relevant citations would be appropriate.

GCMS analysis should be more clear, currently the figure 7 is not of suitable quality.

Additional Questions:

Does the work significantly advance the understanding or development in this field?: Yes

Is this work of relevance to the chemistry community?: Yes

Are the conclusions of the work convincing and sufficiently supported by experimental evidence?: Yes

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<p>Title : Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite</p> <p>Manuscript ID: RA-ART-06-2022-003941</p> <p>Author name : Hasanudin Hasanudin, Wan Ryan Asri, Indah Sari Zulaikha, Cik Ayu, Addy Rachmat, Fahma Riyanti, Fitri Hadiyah, Rahadian Zainul, Roni Maryana</p>		
	<p>Thank you for giving us the opportunity to submit a manuscript titled “Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite” for publication in the Journal of RSC Advances. We appreciate the time and effort that you dedicated to providing feedback on our manuscript and are grateful for the insightful comments and valuable improvements to our paper. We have incorporated the suggestions made by the reviewers. Those changes are written in yellow highlight text within the manuscript.</p>	
	<p>Referee 1</p> <p>The topic is worth of investigating. However, I have some suggestion.</p>	
No	Comment from Referee	Responses
1	I suggest to merge Figures 1, 2, 3 and 5. Figures 4, 6 and 8 could be merged too.	Thank you for pointing this out. It would have been interesting to explore this aspect. We agreed with the reviewer’s suggestion that merging the figures could make the results and discussion structure text in this manuscript would be more straightforward. However, we think that unchanging the figure as a present can ensure the discussion is comprehensively described. Since different Figures revealed different explanations, we think that uncombining the Figures could make the manuscript clear to be read.

2

It is very important to compare these results with previous published results, so please provide a table on this point. So the reviewer could examine the advance of the work.

Thank you for pointing this out. We have added more sentences regarding the previous published results.

The revised text as follows:

“Table 1 Summary of the catalysts employed in the CPO conversion

Catalyst	Feedstock	Condition	Conversion (%)	Refs.
NiMoW-ZSM-5/MCM-41	CPO	400 °C for 2 h	62.60–71.40	81
NiW-HZSM-5	CPO	400 °C for 2 h	48.18	16
CoMo/Al ₂ O ₃	CPO	350 °C for 1 hour, 500 psi	64.21	82
Bentonite-molybdenum nitride	Palm Oil	458.79 °C, 0.12 h of contact time	78.33	32
Bentonite-zirconium phosphide	CPO	450 °C, 0.12 h of	86.04	This work

		<p style="text-align: right;">contact time</p> <p>Bentonite- CPO 450 °C, 87.93 This zirconium 0.12 h of work nitride contact time</p> <p>“As a comparison, several reports on the conversion of palm oil-based feedstocks through hydrocracking catalyzed by various alumina-silicate are presented in Table 2. For instance, the ZSM-5/MCM-41 catalyst reached $\geq 62.60\%$ conversion after introducing the bimetallic NiMoW as an external active site of the catalyst. It can be noticed that a bentonite-ZrP and bentonite-ZrN showed adequate performance in the CPO conversion relatively to other alumina silicate-based catalysts as well as bentonite-MoN, as previously reported.”</p> <p>“Utami et al.⁸⁴ generated 36.51% of gasoline fraction and 45.81% of diesel fraction when employing Cr/ZrO₂-SO₄ in the hydrocracking of palm oil. Marini et al.²⁶ reported that Ni/Al₂O₃ and H/Bentonite could exhibit 60.37% and 39.83% of bio-gasoline fraction, respectively, in the hydrocracking of nyamplung seed, whereas Wijaya et al.²⁷ produced 70.28% of gasoline fraction and 6.20% of diesel fraction when employing 1% Ni-sulfated zirconia for hydrocracking of waste cooking oil.”</p> <p>“Papageridis et al.⁸⁹ reported that nitride-based catalyst had more stability than sulfide catalyst towards the conversion of guaiacol</p>
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		through hydrodeoxygenation reaction after 4 hours on stream on continuous operation, whereas de Souza et al. ³⁵ showed that phosphide-based catalyst had an insignificant deactivation towards phenol conversion through hydrodeoxygenation reaction during 20 hours on stream.”
3	To a research article rather than a review article, it seems that there are too many references cited. I suggest to reconsider the literatures cited to see whether they are necessary.	Thank you for pointing this out. We have deleted some references which quite not necessary. The references have been reduced from 112 to 88.
4	I do not think the TOC picture is appropriate.	Thank you for pointing this out. In the TOC picture, we have described three sections that particularly contained self-explanation. First, we used crude palm oil CPO as a feedstock, as we indicated the picture of CPO as well as their GC chromatogram. Second, we used an arrow that denoted that the CPO would be converted through hydrocracking. We also have shown the SEM micrograph of the catalyst. Last, the arrow goes to the biofuels product as well as the GC chromatogram. We have added the phrase "hydrocracking" above the arrow as well. According to this, we think that image could be used as TOC in this study's research.
	<p>Referee 2</p> <p>The authors have written well, the work is original, and will add new information to the target community.</p>	
2	I recommend that authors reduce the number of citations from more than 100 to a maximum of 50 in the present case. It is not a review article so, only the most relevant citations would be appropriate.	Thank you for pointing this out. We have agreed with the referee. In order to make the explanation in the discussion results still comprehensively described, we kept the sentences and deleted the doubled citations instead. We have deleted the citations in the

		introduction section that are likely not relevant. Overall, we have reduced the references from 112 to 89.
3	GCMS analysis should be more clear, currently the figure 7 is not of suitable quality.	Thank you for pointing this out. We have revised the quality of Fig. 7 clearer as suggested by the referee and provided it as 600 dpi.



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13-Jul-2022

Dear Dr Hasanudin:

TITLE: Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite
AUTHORS: Hasanudin, Hasanudin; Asri, Wan; Zulaikha, Indah; Ayu, Cik; Rachmat, Addy; Riyanti, Fahma; Hadiah, Fitri; Zainul, Rahadian ; Maryana, Roni

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25-Jul-2022

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TITLE: Hydrocracking of crude palm oil to biofuel using zirconium nitride and zirconium phosphide modified bentonite

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With best wishes,

Prof. Dr. Tiancheng Mu
Associate Editor,
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REVIEWER REPORT(S):

Referee: 2

Recommendation: Accept

Comments:
No comments

Additional Questions:

Does the work significantly advance the understanding or development in this field?: Yes

Is this work of relevance to the chemistry community?: Yes

Are the conclusions of the work convincing and sufficiently supported by experimental evidence?: Yes

Does the data provided fulfil the journal's data requirements?

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Is the experimental section sufficiently detailed to allow others to reproduce the work?: Yes

Are the reported claims adequately discussed in the context of the literature?: Yes

Are the number of tables and figures in the manuscript appropriate and clear?: Yes

Referee: 1

Recommendation: Accept

Comments:
accepted

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