



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

Invitation to Review (#IJC-2203-1923)

1 pesan

Iranian Journal of Catalysis <journals@iau.ir>

3 September 2022 pukul 00.30

Balas Ke: Iranian Journal of Catalysis <ijc@iaush.ac.ir>

Kepada: hasanudin@mipa.unsri.ac.id, hasanudinkf@gmail.com

Dear Prof. **Dr. Hasanudin Hasanudin**

I would like to invite you to review the manuscript entitled "**Vapor Permeation Membrane Reactor Investigation for the production of Iso propyl Propionate with Amberlyst 15 as Catalyst**". Please, login to <http://ijc.iaush.ac.ir> to download the manuscript. In case you agreed, please inform the results by **2022-09-17**. If you are not able to do it at this time, I would greatly appreciate your suggestion for alternative reviewers.

Kind regards,

Ahmad Reza Massah

Editor-in-Chief of Iranian Journal of Catalysis

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

Thank you for agree to review the manuscript (#IJC-2203-1923)

1 pesan

Iranian Journal of Catalysis <journals@iau.ir>
Balas Ke: Iranian Journal of Catalysis <ijc@iaush.ac.ir>
Kepada: hasanudin@mipa.unsri.ac.id, hasanudinkf@gmail.com
Cc: massah@iaush.ac.ir

3 September 2022 pukul 04.19

Dear Prof. **Dr. Hasanudin Hasanudin**

Thank you for agreeing to review the manuscript titled "**Vapor Permeation Membrane Reactor Investigation for the production of Iso propyl Propionate with Amberlyst 15 as Catalyst**". I should appreciate your assistance as a reviewer for the *Iranian Journal of Catalysis*.

Kind regards,

Ahmad Reza Massah

Editor-in-Chief of Iranian Journal of Catalysis

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Manuscript Title	Improvement of Iso propyl Propionate Esterification Reaction using a Vapor Permeation Membrane Reactor		
Manuscript ID	IJC-2203-1923		
Reviewer Name	Hasanudin, Hasanudin	Email Address	hasanudin@mipa.unsri.ac.id
Position	Associate Professor , Degree: Ph.D.	Phone: (+62) 81367471272	Mobile:
Specialty	Specific Field of Study	Chemistry	
Affiliation	Biofuel Research Group, Department of Chemistry, Faculty of Mathematics and Natural Science, Universitas Sriwijaya, Inderalaya 30662, South Sumatra, Indonesia		
Bank Account Information			
Assign Date	2022-09-02 22:00:38	Review Due Date	2022-09-18
Agree/Decline	Agree	Agree/Decline Date	2022-09-03 01:49:59
Reviewer Recommendation	Major Revision	Review Date	2022-09-17 07:59:31
Editor Comment for Reviewer			
Reviewer Comment For Editor/Editor-in-Chief			
Reviewer Comment For Author			
The author and co-workers employed the Amberlyst 15 catalyst to produce Isopropyl Propionate via esterification reaction under a vapor Permeation Membrane Reactor. The acid conversion increased up to 90% when utilizing the coupled membrane system at a			

particular process variable. After carefully evaluating the MS, here are some remarks that the author must take into consideration:

1. The explanation regarding the Amberlyst 15 was insufficient in the introduction. Since the author employed this catalyst, it is suggested to elaborate on the advantage of the Amberlyst 15 in the esterification reaction compared with other catalysts.
2. In the title of this MS, the author stated that the Amberlyst 15 catalysts were utilized for the production of Isopropyl Propionate. In the introduction, however, there was no relevant explanation regarding this topic section. Surprisingly, there was also no discussion regarding the production of Isopropyl Propionate! It is suggested to revise the title to the appropriate one. Also, it is not clear the urgency regarding the isopropyl propionate production. Why should this chemical be produced?
3. Since the catalyst inherently affects the catalytic activity towards the esterification reaction. It is necessary to characterize the physicochemical properties of Amberlyst 15 (Rohm & Haas).
4. The author used a packed GC column to analyze the reaction mixture samples. However, there were no results regarding the product yield and selectivity. The conversion acid data was insufficient to describe the effect of various process variables on the esterification reaction.
5. It is necessary to conduct the esterification without a catalyst as a control.
6. In the result and discussion section, the author suggested that the membrane separation could improve acid conversion by removing water from the reactor. Inquisitively, does it any supporting data, quantitatively, regarding this assumption, which implies that the water was removed?
7. In the effect of the membrane section, it is necessary to cite relevant information regarding the explanation. The author stated, "Similar results have been obtained by other scientists." But no references were cited.
8. In the catalyst loading effect on the hybrid process section, the author stated that the difference between conversion percentage values in the two processes with catalyst consumption at 12 and 3 wt.% was increased due to the effect of the membrane unit. In this regard, what precisely is the meaning of the membrane unit author refers to? It is necessary to elaborate on it. Furthermore, is there any possible explanation regarding the catalyst's active site, which promotes the catalytic activity towards acid conversion? Refer this article, <https://doi.org/10.21894/jopr.2022.0051> and <https://doi.org/10.47836/pjst.30.1.21>
9. The conclusion should be shortened, and the implication of this research should be mentioned
10. The references were not following the journal guideline. Revise it accordingly.

Related Files



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

Thanks for your comments (#IJC-2203-1923 (R1))

1 pesan

Iranian Journal of Catalysis <journals@iau.ir>

9 Oktober 2022 pukul 16.32

Balas Ke: Iranian Journal of Catalysis <ijc@iaush.ac.ir>

Kepada: hasanudin@mipa.unsri.ac.id, hasanudinkf@gmail.com

Cc: massah@iaush.ac.ir

Dear Prof. **Dr. Hasanudin Hasanudin**

Thank you so much for your comments. I should appreciate your time and effort in reviewing this manuscript and greatly value your assistance as a reviewer for the *Iranian Journal of Catalysis*.

Kind regards,

Ahmad Reza Massah

Editor-in-Chief of Iranian Journal of Catalysis

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#	Manuscript ID	Manuscript Title	Current Status	Assign Date	Agree/Decline Date	Review Date	Reviewer Recommendation
1	IJC-2207-1946	Effect of Nickel Promoted Niobium Catalyst on Toluene Nitration Reaction	Manuscript Rejected (Reviewers/Editor Recommendation)	2022-08-15	2022-08-15	2022-08-28	Reject
2	IJC-2203-1923	Improvement of Iso propyl Propionate Esterification Reaction using a Vapor Permeation Membrane Reactor	Accepted to Online Publish	2022-09-02	2022-09-03	2022-09-17	Major Revision
3	IJC-2203-1923 (R1)	Improvement of Iso propyl Propionate Esterification Reaction using a Vapor Permeation Membrane Reactor	Accepted to Online Publish	2022-10-09	2022-10-09	2022-10-09	Accept

