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Dear Dr. Hasanudin,

Thank you very much for uploading the following manuscript to the submission and editorial system for AIMS Press at www.aimspress.com.

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiyah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

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

Re: Re: Submission Received—energy-441

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8 Oktober 2022 pukul 09.51

Dear Dr. Hasanudin,

Thank you for your kind reply.
Next, we will continue to process your manuscript.

Best wishes!

Kind regards,

Wen Wang
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Subject: Re: Submission Received—energy-441

Yes, I confirm.

Pada tanggal Kam, 29 Sep 2022 pukul 09.11 <energy@aimspress.org> menulis:

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Major Revisions—energy-441

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Please provide a cover letter to explain point-by-point the details of the revisions in the manuscript and your responses to the reviewers' comments. Please include in your rebuttal if you found it impossible to address certain comments. The revised version will be inspected by the editors and reviewers.

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<p>Title : Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite</p> <p>Manuscript ID : energy-441</p>		
<p>Thank you for giving us the opportunity to submit a manuscript titled “Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite” for publication in the AIMS Energy. 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>Reviewer 1</p> <p>This manuscript reports a nickel nitride supported on the natural bentonite, and the resulted catalyst has been applied for crude palm oil (CPO) hydrocracking. The surface acidity feature of the NiN-bentonite was evaluated using the gravimetric pyridine gas, and the catalyst’s physiochemical features have also been investigated. The catalysts show superior activities for CPO hydrocracking. Overall, this work shows some interesting results and the manuscript was well organized and written. I can support the publication only after addressing the following issues:</p>		
No	Comment from Reviewer	Responses
1	The XRD patterns should be retested again, the current patterns show high noise	Thank you for pointing this out. We could not retest the XRD of the corresponding catalysts considering it takes a relatively long time to be analyzed with a long queue in our region. However, the peaks relatively revealed the primary phase of the catalyst, which can be used to interpret the structure of the catalysts and combined with other instruments such as SEM, FTIR, BET, etc. For the subsequent study, it is necessary to find an optimized instrument that shows low noise.

2	Can the authors supply the acid strength of their samples, which play important role for their activities.	<p>Thank you for pointing this out. It would have been interesting to explore this aspect. The acid strength of the catalyst can be provided by NH₃-TPD analysis. However, this study provided the effect of the surface acidity of the catalyst on the catalytic activity toward CPO hydrocracking. We found that high catalyst surface acidity generated high catalytic activity, consistent with another report. Nevertheless, it is fascinating and necessary to explore this aspect in the other study.</p>
3	In general, the acidity was evaluated by using acid-base titration and/or elemental analysis, these results should be provided.	<p>Thank you for pointing this out. There are several methods to determine the acidity of the catalyst. In this study, we employed the gravimetric method rather than the acid-base titration and/or elemental analysis. The gravimetric method using pyridine as a probe was chosen since this method is simple, minimal cost, and relatively sufficiently accurate to describe the acidity features. Before analysis, the desiccator was vacuumed to ensure the effective saturating of pyridine gas towards the catalyst surface. Several researchers also used this method accordingly [1–3].</p> <ol style="list-style-type: none"> 1. Marsuki MF, Trisunaryanti W, Falah II, et al. (2018) Synthesis of Co, Mo, Co-Mo and Mo-Co catalysts, supported on mesoporous silica-alumina for hydrocracking of a-cellulose pyrolysis oil. <i>Orient J Chem</i> 34: 955–962. 2. Trisunaryanti W, Wijaya K, Triyono T, et al. (2021) Green synthesis of hierarchical porous carbon prepared from coconut lumber sawdust as Ni-based catalyst support for hydrotreating Callophyllum inophyllum oil. <i>Results Eng</i> 11:

		<p>100258.</p> <ol style="list-style-type: none"> 3. Wijaya K, Nadia A, Dinana A, et al. (2021) Catalytic hydrocracking of fresh and waste frying oil over ni-and mo-based catalysts supported on sulfated silica for biogasoline production. <i>Catalysts</i> 11. 4. Sari EP, Wijaya K, Trisunaryanti W, et al. (2022) The effective combination of zirconia superacid and zirconia-impregnated CaO in biodiesel manufacturing: Utilization of used coconut cooking oil (UCCO). <i>Int J Energy Environ Eng</i> 13: 967–978.
4	<p>Some important references on solid acids and their catalytic application on biomass conversion should be introduced and cited in the manuscript (J. Am. Chem. Soc. 2012, 134, 16948–16950; Chemical Science, 2019, 10, 5875–5883; ACS Catalysis 2020, 10, 11848–11856; ACS Catalysis 2018, 8, 372–391; Green Chem., 2018, 20, 1020–1030).</p>	<p>Thank you for pointing this out. The references are incorporated within the manuscript as suggested by the reviewer.</p> <p>The revised text as follows:</p> <p>“Acid catalysts are widely employed in petrochemical reactions and industrial biomass conversion [6,7]. The properties of the catalyst also could be tunable for particular raw material and outcomes. Solid acid, a well-known heterogeneous catalyst, has been extensively explored to generate green and sustainable chemistry due to its high catalytic activity and product selectivity, ease of regeneration and corrosion reduction, and ability to function in continuous reactors [8,9]”</p>

	<p>Reviewer 2</p> <p>The manuscript “Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite” described a synthesis process of NiN supported catalyst and its application and effects on the conversion of crude palm oil into biofuels. In general, the result is interesting. However, the significance of the current study is not well presented and should be improved throughout. The specific comments are as follows:</p>	
No	Comment from Reviewer	Responses
1	<p>Large number of typos were found in the manuscript as following: Page 1 first paragraph: “These are important instructions and explanations. Thank you for your cooperation. Energy needs are increasing yearly due to the escalation of industrialization activities worldwide. This condition is in line with the population and economic development increase, which has increased significantly. Energy needs are increasing yearly due to the escalation of industrialization activities worldwide. This phenomenon is in line with rising population and economic development [1].” Is this revised one? If so, where is the response to previous reviewers?</p>	<p>Thank you for pointing this out. Sorry for the mistake. We accidentally put the words from the manuscript template of AIMS energy into our manuscript. We have deleted the sentence “these are important instructions and explanations. Thank you for your cooperation” accordingly.</p> <p>The revised text as follows: “Due to the escalation of industrialization activities worldwide, energy needs are increasing every year. This condition is consistent with the significant increase in population and economic development [4].”</p>
2	<p>Introduction section: what is the approximate potential of CPO in Indonesia? This should be pointed out so that readers can understand the potential of this market in the country.</p>	<p>Thank you for pointing this out. We have incorporated the approximate potential of CPO in Indonesia, as suggested by the reviewer.</p> <p>The revised text as follows: “In recent years, CPO manufacturing rose to 27.00 million tonnes in 2017 compared with 2001, which is only 0.84 million tonnes.</p>

		Further, CPO manufacture's productivity tends to increase yearly by 1.50-10.96%, which suggests its potential as a sustainable feedstock [4].”
3	It will be much better if the authors can add a mechanic figure for the hydrocracking process with catalysis. This should facilitate the reading.	<p>Thank you for pointing this out. We have incorporated the suggestion by the reviewer.</p> <p>The revised text as follows:</p> <p>“The proposed mechanism of CPO hydrocracking using nickel nitride-bentonite is presented in Figure 8. The CPO hydrocracking process can occur as a result of a parallel reaction between the decarboxylation reaction and the carbon-carbon bond-breaking reaction of unsaturated fatty acids. This parallel reaction allows the formation of carbon dioxide gas products and gasoline fraction oil. This reaction likewise begins with the adsorption of unsaturated fatty acids as a provider of electrons to the catalyst surface as an electron acceptor. The weak bonds formed between fatty acids that have phi electrons (π) and, subsequently, the catalyst led the carbon-carbon bonds of unsaturated fatty acids to become weak and eventually break. Further hydrogenation reactions generated gases such as propane, biofuel fractions, and water.”</p>
4	Introduction: the description of the application of NiN-supported catalysis is too general. From it’s current layout, the reviewer can not really understand the importance of this. Describe it by adding specific data compared with the one without using it.	Thank you for pointing this out. The NiN catalysts have been employed for many electrocatalytic reactions. Accumulation of positive charge on the Ni sites with N element alloying, ΔG_{H^*} in the favored NiN plane decreases significantly to -0.05 eV, almost close to the Pt sites. Hence, dispersing the NiN onto the supported catalyst, such as bentonite, would potentially increase the active site catalyst,

		<p>thereby increasing catalytic performance. The previous study showed that the metal nitride (i.e., ZrN) significantly increased the acidity of the bentonite catalyst due to additional acidic active sites from the metal nitride.</p> <p>The revised text as follows:</p> <p>“Accumulation of positive charge on the Ni sites with N substance alloying, the ΔG_{H^*} in the favored NiN plane decreases significantly to -0.05 eV, almost close to the Pt sites. Hence, dispersing the NiN onto the supported catalyst, such as bentonite, would potentially increase the active site catalyst, thereby increasing catalytic performance.”</p> <p>“ZrN/bentonite exhibited high acidity features (1.822 mmol/g) compared with the parent bentonite, which only 0.054 mmol/g.”</p>
5	<p>The English of the manuscript must be improved by native speaker. Number of grammar mistakes can be found throughout the manuscript. For example, Some study (Studies) reported that the modified bentonite revealed (exhibited) more porous and coarse structure [52,53]. Nevertheless, it was worth to observed (???) that some tiny aggregation species were deposited on the NiN- B, which presumably concurrence the dispersion of NiN species towards the bentonite surface.</p>	<p>Thank you for pointing this out. We have sent the manuscript to the proofreading service. A native speaker has proofread the whole manuscript and corrected the grammar mistakes.</p> <p>The revised text as follows:</p> <p>“Some studies reported that the modified bentonite exhibited a more porous and coarse structure [57,58]. Nevertheless, it was worth noting that some tiny aggregation species were deposited on the NiN-B, presumably contributing to NiN species’ dispersion towards the bentonite surface.”</p>

6	<p>The contribution and research gap that this manuscript trying to fill should be improved. For example, what kind of catalysts have been used on CPO for the production of biofuels? How the catalyst developed here can add value to this research field?</p>	<p>Thank you for pointing this out. As stated in the introduction, several catalysts, such as metal oxide, aluminosilicate, and metal support-based catalysts, have been employed in CPO hydrocracking for biofuel production. The reports nor studies have yet been made on the hydrocracking of CPO to biofuel using nickel nitride-modified bentonite. In this study, we developed a NiN-supported natural bentonite as a potential catalyst for hydrocracking. This catalyst offers low-cost catalysts since the bentonite was taken from nature, thus minimizing the cost and showing an adequate performance towards CPO conversion. Further, a preliminary study for nickel nitride-based catalyst for hydrocracking reactions were also reported. The nickel nitride species could enhance the acidity features of the bentonite catalyst, which inherently affected the catalytic performance on CPO conversion.</p> <p>The revised text as follows:</p> <p>“This study offers the potential and exploration of natural-based catalysts as inexpensive catalysts. Nickel nitride as an active species was studied to evaluate its effect on the natural bentonite catalyst in order to increase its catalytic performance on CPO hydrocracking.”</p>
7	<p>Fig 2: the absorption of 793 cm-1 is not well observed. Also, the caption should stand alone without the using of abbreviations. This should be revised for all the figures.</p>	<p>Thank you for pointing this out. We have marked the absorption band of ~793 cm-1 using lines in order to make it more readable. Although the peaks have low intensity, the absorption band can be distinguished from other absorption bands. Some studies also reported similarly that at this absorption band range, the peaks were</p>

		<p>relatively exhibited low intensity. We also have revised the figures caption as suggested by the reviewer.</p> <p>Refs: Wijaya K, Kurniawan MA, Saputri WD, et al. (2021) Synthesis of nickel catalyst supported on ZrO₂/SO₄ pillared bentonite and its application for conversion of coconut oil into gasoline via hydrocracking process. <i>J Environ Chem Eng</i> 9: 105399.</p> <p>Mirzan M, Wijaya K, Falah II, et al. (2019) Synthesis and characterization of Ni-promoted zirconia pillared bentonite. <i>J Phys Conf Ser</i> 1242</p>
8	<p>For fig. 3, where is the EDX image of the two catalysts? Since the authors have the data, it should be presented to prove the observations of Ni and N in the supported catalyst.</p>	<p>Thank you for pointing this out. We have added the EDX spectra of both catalysts as suggested by the reviewer.</p>
9	<p>Page 5, fig 4, what the meaning of increased acidity of the catalyst? I understand that the authors were trying to show that higher acidity, higher catalysis capacity of the catalyst. However, this is missing and should be supported by reference. Also, there is no error bar for fig 4, fig 5 and fig 6.</p>	<p>Thank your for pointing this out. The increased acidity of the catalyst indicated that more acidic sites would catalyze the CPO hydrocracking. The references have been incorporated within the manuscript as suggested by the reviewer. The error bars for Fig.4- Fig.6 have been added as suggested by the reviewer.</p> <p>The revised text as follows:</p> <p>“Furthermore, the higher nickel nitride loading provided a more acidic environment on the catalyst’s surface throught the synergetic effect between nitride groups and metal. This condition effectively promoting the CPO conversion [65]. As can be seen from Figure 4,</p>

		<p>higher nickel nitride loading provided highly acidic sites, which promoted a high catalytic process. Similarly, the previous study showed that ZrN-bentonite could exhibit a conversion of up to 87.93% at 8 mEq/g metal loading, while the ZrP-bentonite achieved 86.04% at 10 mEq/g metal loading, which indicated that the catalyst acidity highly affected the CPO conversion [3]. Another study also reported a positive correlation between the catalyst acidity and the catalytic performance in the hydrocracking process [66].”</p>
10	Fig 5, where is the conversion results of the parent catalyst?	<p>Thank you for pointing this out. We have added the conversion results of the parent bentonite and revised the Fig. 5 accordingly.</p> <p>The revised text as follows:</p> <p>“Figure 5 shows conversion results using bentonite and NiN-B catalysts. The parent bentonite catalyst exhibited low conversion compared with the NiN-B catalyst, which suggested due to low acidic sites.”</p> <p>“This result confirms that the NiN species could enhance the bentonite catalyst performance toward high CPO conversion.”</p>
11	Any explanation on the un-changed biofuels component between the supported and parent catalyst?	<p>Thank you for pointing this out. The CPO that has not yet undergone prosperous cracking is denoted as residue. According to the results of the CPO hydrocracking, the parent catalyst exhibited high residue, whereas the nickel nitride-bentonite showed low residue and tended to decrease for prolonged high nickel nitride loading, which proportionally with high conversion. The low residue result suggested that the catalyst was effective for CPO hydrocracking.</p>

		<p>The revised text as follows:</p> <p>“The CPO that has not yet undergone prosperous cracking is denoted as residue. According to the results of the CPO hydrocracking, the parent catalyst exhibited high residue, whereas the nickel nitride-bentonite showed low residue and tended to decrease for prolonged high nickel nitride loading, which proportionally with high conversion. The low residue result suggested that the catalyst was effective for CPO hydrocracking [69].”</p>
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Manuscript Resubmitted

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Revision needs to be re-submitted--energy-441

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28 Januari 2023 pukul 13.02

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Cc: Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiah <fitrihadiah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

Thank you very much for resubmitting the modified version of the following manuscript:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

E-mails: hasanudin@mipa.unsri.ac.id, wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimuhammad@gmail.com

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A member of the editorial office will be in touch with you soon regarding progress of the manuscript.

Kind regards,

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

Revised Version Received--energy-441

1 pesan

energy@aimspress.org <energy@aimspress.org>

29 Januari 2023 pukul 09.13

Balas Ke: wen.wang@aimsciences.org

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

Cc: AIMS Energy Editorial Office <energy@aimspress.org>, Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiah <fitrihadiah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

Thank you very much for providing the revised version of your paper:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

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Minor Revisions—energy-441

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energy@aimspress.org <energy@aimspress.org>

14 Februari 2023 pukul 14.42

Balas Ke: wen.wang@aimsciences.org

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

Cc: AIMS Energy Editorial Office <energy@aimspress.org>, Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiah <fitrihadiah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

Thank you for submitting your manuscript:

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Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

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Received: 21 September 2022

E-mails: hasanudin@mipa.unsri.ac.id, wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimuhammad@gmail.com

It has been reviewed by experts in the field and we request that you make minor revisions before it is processed further. Please find your manuscript and the review reports at the following link:

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Any co-authors can also view this link if they have an account in our submission system using the link in this message.

Please revise the manuscript according to the reviewers' comments and upload the revised paper within 5 days. Use your last revised version of your manuscript to do further modification.

Please highlight the most recent changes.

Please provide a short cover letter detailing any changes, for the benefit of the editors and reviewers.

Do not hesitate to contact us if you have any questions regarding the revision of your manuscript. We look forward to hearing from you soon.

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Revised Version Received--energy-441

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energy@aimspress.org <energy@aimspress.org>

20 Februari 2023 pukul 09.24

Balas Ke: wen.wang@aimsciences.org

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

Cc: AIMS Energy Editorial Office <energy@aimspress.org>, Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiah <fitrihadiah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

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Manuscript ID: energy-441

Type of manuscript: Research article

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Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

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About Adding Author needs your confirmation--energy-441

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20 Februari 2023 pukul 09.48

Kepada: hasanudin <hasanudin@mipa.unsri.ac.id>

Cc: Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiah <fitrihadiah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

We briefly checked the revised paper(energy-441), and found that you have added a co-author (Muhammad Hendri), In order to implement this change and to meet journal's requirements, we will require the following information from you:

1. The reason the name should be added.
2. Written confirmation (email, fax, letter) from all authors that they agree with the addition.
In the case of addition of authors, this includes confirmation from the author being added.
3. Provide email address of the author being added.

With my best regards

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Assistant Editor

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Date: 2023-02-20 10:24**To:** Hasanudin Hasanudin**CC:** AIMS Energy Editorial Office; Wan Ryan Asri; Utari Permatahati; Widia Purwaningrum; Fitri Hadiah; Roni Maryana; Muhammad Al Muttaqii**Subject:** Revised Version Received--energy-441

Dear Dr. Hasanudin,

Thank you very much for providing the revised version of your paper:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

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20 Februari 2023 pukul 13.27

Kepada: "wen.wang@aimsciences.org" <wen.wang@aimsciences.org>, AIMS Energy Editorial Office
<energy@aimspress.org>

Dear Editor

We, the undersigned authors, agree to the addition of Muhammad Hendri to the authorship on our manuscript (Manuscript ID: energy-441) entitled "Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite" and acknowledge the order of appearance as Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiyah, Roni Maryana, Muhammad Al Muttaqii, and Muhammad Hendri. All authors have agreed and signed the authorship changes as shown in the attached file.

The reason for the change of authorships is that Muhammad Hendri (email: muhammad.hendri@unsri.ac.id) is the research member. Muhammad Hendri was involved in this project by providing instrumental analysis and significantly contributed when revising this manuscript. Therefore, we have decided to change the authorship of this manuscript. We hope the Editor considers this order of author changes. Thank you.

Sincerely,
Corresponding author
Hasanudin Hasanudin
[Kutipan teks disembunyikan]

 **Authorship agreement confirmation-AIMS 441.pdf**
170K

wen.wang@aimsciences.org <wen.wang@aimsciences.org>

20 Februari 2023 pukul 15.23

Kepada: hasanudin <hasanudin@mipa.unsri.ac.id>

Dear Dr. Hasanudin,

Thank you for your quick reply.
Next, we will continue to process your manuscript.
Best wishes!

[Kutipan teks disembunyikan]



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

Accepted for Publication—energy-441

1 pesan

energy@aimspress.org <energy@aimspress.org>

1 Maret 2023 pukul 13.39

Balas Ke: wen.wang@aimsciences.org

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

Cc: AIMS Energy Editorial Office <energy@aimspress.org>, Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiyah <fitrihadiyah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

Dear Dr. Hasanudin,

We are pleased to inform you that the following paper has been officially accepted for publication:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiyah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

E-mails: hasanudin@mipa.unsri.ac.id, wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiyah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimuhammad@gmail.comhttps://aimspress.jams.pub/user/manuscripts/review_info/e32d34c90eeaf0dd2ff74117efc92ac1

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Further, to maximize the impact and readership of your paper, AIMS will do everything possible to make it reach all interested readers in the shortest possible time. To this end, we would need your help in providing an extended list of names with email addresses of those people who may be interested in your paper, especially the authors of the references you cited. Please prepare the list as a Excel file formatted as "name; email;" (one per line) via email. With your suggested list, we will invite them to browse this published issue online.

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energy@aimspress.org <energy@aimspress.org>

1 Maret 2023 pukul 13.42

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

Cc: AIMS Energy Editorial Office <energy@aimspress.org>, Wen Wang <wen.wang@aimsciences.org>

Dear Dr. Hasanudin Hasanudin,

Your paper has been accepted for publication in the journal AIMS Energy.

The invoice is related to the following manuscript:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

E-mails: hasanudin@mipa.unsri.ac.id, wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimuhammad@gmail.com

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About the final version format needs your reply - Accepted forPublication—energy-441

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wen.wang@aimsciences.org <wen.wang@aimsciences.org>

1 Maret 2023 pukul 13.44

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Cc: Wan Ryan Asri <wanryanryan@gmail.com>, Utari Permatahati <utaripermatahati@gmail.com>, Widia Purwaningrum <purwaningrum@unsri.ac.id>, Fitri Hadiyah <fitrihadiyah@ft.unsri.ac.id>, Roni Maryana <roni.maryana@lipi.go.id>, Muhammad Al Muttaqii <almuttaqiimuhammad@gmail.com>

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Please pay attention to the order of the author's first name and last name in the references: last name first, first name last.

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1. Pham Q, Park S, Agarwal AK, et al. (2022) Review of dual-fuel combustion in the compression-ignition engine: Spray, combustion, and emission. *Energy* 250:123778.<https://doi.org/10.1016/j.energy.2022.123778>

2. Chen L, Xu ZP, Liu SS, et al. (2022) Dynamic modeling of a free-piston engine based on combustion parameters prediction. *Energy* 249: 123792. <https://doi.org/10.1016/j.energy.2022.123792>
3. Sinigaglia T, Martins MES, Cezar Mairesse Siluk J (2022) Technological evolution of internal combustion engine vehicle: A patent data analysis. *Appl Energy* 306: 118003. <https://doi.org/10.1016/j.apenergy.2021.118003>
4. Wube DA (2016) Design and analysis of small hydro power for rural electrification. *Glob J Res Eng F Electr Electron Eng* 16. Available from: <https://engineeringresearch.org/index.php/GJRE/article/view/1530/1461>.
5. Degefu DM, He WJ, Zhao JH (2015) Hydropower for sustainable water and energy development in Ethiopia. *Sustain Water Resour Manag* 1: 305–314. <https://doi.org/10.1007/s40899-015-0029-0>
6. Ram KV (1981) Antecedents to the Sudan-Ethiopia border negotiations and the agreement of May 1902. *Transafrican J Hist* 10: 45–60. Available from: <https://www.jstor.org/stable/24328587>.

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cc: AIMS Energy Editorial Office; Wan Ryan Asri; Utari Permatahati; Widia Purwaningrum; Fitri Hadiah; Roni Maryana; Muhammad Al Muttaqii

Subject: Accepted forPublication—energy-441

Dear Dr. Hasanudin,

We are pleased to inform you that the following paper has been officially accepted for publication:

Manuscript ID: energy-441

Type of manuscript: Research article

Title: Conversion of crude palm oil to biofuels via catalytic hydrocracking over NiN-supported natural bentonite

Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

Received: 21 September 2022

E-mails: hasanudin@mipa.unsri.ac.id, wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimhammad@gmail.com

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2 Maret 2023 pukul 12.59

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Hasanudin Hasanudin

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2 Maret 2023 pukul 14.32

Kepada: hasanudin <hasanudin@mipa.unsri.ac.id>

Dear Dr. Hasanudin,

Manuscript received.

We will send the final version to you for proofreading after completing the final production and language inspection of the article.

Best wishes!

With my best regards

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Final Proofreading Before Publication - energy-441

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6 Maret 2023 pukul 08.53

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

Cc: wanryanryan@gmail.com, utaripermatahati@gmail.com, purwaningrum@unsri.ac.id, fitrihadiah@ft.unsri.ac.id, roni.maryana@lipi.go.id, almuttaqiimhammad@gmail.com

Dear Dr. Hasanudin,

We invite you to proofread your manuscript prior to publication:

Manuscript ID: energy-441

Type of manuscript: Research article

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Authors: Hasanudin Hasanudin *, Wan Ryan Asri, Utari Permatahati, Widia Purwaningrum, Fitri Hadiah, Roni Maryana, Muhammad Al Muttaqii

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