



Apip Amrullah <apip.amrullah@ulm.ac.id>

Submission to Heliyon requires action

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Thu, Jan 27, 2022 at 1:21 PM

Journal: Heliyon

Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

Dear Mr AMRULLAH,

Thank you for agreeing to transfer your manuscript to Heliyon. Your submission is currently incomplete, and to complete the transfer further action is required.

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If it was specified in your transfer offer that your article would be eligible for a fee waiver, this will be honoured: please complete the submission process and do not worry about the information provided during the submission process regarding the Article Publishing Charge. Once your submission to Heliyon has been finalized you will receive a voucher code which can be used at acceptance to ensure that the full APC will be waived.

Please do not hesitate to get in touch if you have any questions or if there is anything we can do to help with the submission process.

Thank you for considering this journal, and we look forward to receiving your submission.

Kind regards,

Heliyon

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Apip Amrullah <apip.amrullah@ulm.ac.id>

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1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Thu, Jan 27, 2022 at 1:21 PM

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aAMRULLAH-267

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Heliyon

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8/22/22, 9:08 AM

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to me

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Heliyon

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Apip Amrullah <apip.amrullah@ulm.ac.id>

Confirming submission to Heliyon

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Tue, Feb 1, 2022 at 10:07 AM

CC: "Obie Farobie" obiefarobei@gmail.com, "Shofwatunnida Septarini" nidaseptarini14@gmail.com, "Justinus A Satrio" justinussatro@villanova.edu

This is an automated message.

Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

Dear Mr AMRULLAH,

We have received the above referenced manuscript you submitted to the Energy section of Heliyon. It has been assigned the manuscript number HELIYON-D-22-01296. To track the status of your manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Submissions Being Processed" folder.

Over the holiday season many of the hard-working people at Cell Press take some time off, and as a result we may not be able to move your paper forward as quickly as we would normally. Please rest assured that we will work on it as soon as we can and that it will receive the same level of care and attention as you would expect during the rest of the year when we do.

Thank you in advance for your understanding, and best wishes for the holiday season.

Kind regards,
Heliyon

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8/22/22, 9:11 AM

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Apip Amrullah <apip.amrullah@ulm.ac.id>

Heliyon fee waiver voucher

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Fri, Feb 4, 2022 at 8:33 PM

Article Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior
Corresponding Author: Mr apip AMRULLAH

Dear Mr AMRULLAH,

Thank you for transferring your manuscript to Heliyon. Following Elsevier's limited time offer for transferred papers, please find below a voucher code that will ensure your APC is waived upon acceptance. Authors with funding outlined [here](#) are excluded from this offer.

Voucher Code: HLYuWZrVPxNATSOA

Kind regards,

Calum Wincott
Editorial Assistant
Heliyon

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Apip Amrullah <apip.amrullah@ulm.ac.id>

Send Back to Author: Request to Edit Submission

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Mon, Feb 7, 2022 at 7:40 PM

Article Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior
Corresponding Author: Mr apip AMRULLAH

Dear Mr AMRULLAH,

Your submission entitled "Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior" has been received by Heliyon. However, before we can proceed with the review process we ask you to address the following:

Please make changes to your paper according to the reviews from the previous journal. Please include a point-by-point response to their comments, and highlight/track changes made accordingly to your manuscript.

Please see the reviews below:

Reviewer #1: The authors studied the co-pyrolysis of food waste and plastic waste for biofuel products. Also, their physico-chemical properties were investigated by using GC/MS. The purpose of this study could be reasonable; however, the overall contents of this article was not satisfactory for publication due to the lack of novelty and poor data. Thus, it is recommended to reject this article. The specific comments are below.

1. Just focusing on increasing oil yield, the paper is simple and novelty is low. It would have been a better paper if an additional explanation (ex. the conditions for improving the quality of oil based on GC-MS analysis data).
2. Page 5: It would be better to specify the loading rate of food waste and plastic waste in the section 2.1 preparation of pyrolysis bio-oil.
3. Page 5 line 116: I wonder why the 250-350 temperature range was chosen. As a result of the TGA (Thermogravimetric analysis) of plastic, I know that it starts to decompose around 300-400. I want to know whether the plastic used in the experiment decomposes even in a low temperature range.
4. Page 7: There seems to be no analysis of the characteristics of raw materials. If possible, it would be better to analyze the characteristics of raw materials such as proximate analysis, elemental analysis, TGA (Thermogravimetric analysis), etc. and add it to the results. If analysis is difficult, it would be better to interpret the results based on literature values.
5. Page 7 line 153: The feedstock loading ratio of the pyrolysis experiment is different, but I'm not sure whether the results of the total ratio were used or the results of a specific ratio were used. It would be better if you write the conditions in detail.
6. Page 7 line 158: Author mentioned the effect of lignin. It would be good to analyze the amounts of lignin, hemicellulose, and cellulose in food waste or to find out the literature value.
7. Page 19: In figure3 (a) graph, the arrow of feedstock (60% FW: 40% PW) is connected to other graph. it would be better to edit
8. If possible, put GC-MS analysis data in the supplementary. So that the reader can know the retention time, chemical name and structure

Reviewer #2: Many grammatical and spelling errors that must be corrected. Example Line 130 "Reaction"

Line 53: Suggested the authors to find a replacement phrase for "semi hydrocarbons". It is not an usual phrase used. The phrase was also not mentioned in the 2 references quoted in the manuscript.

Line 67, 92: Error in the reference writing

Line 95: Abbreviations (LDPE, HDPE, PP, PS) without proper full naming in the manuscript.

Line 97: The authors explained that "However, they found that mixing the plastic and tire delayed the pyrolysis process.". What does it mean delayed the process? It must be explained clearly.

Line 128: Bracket error before "rice".

Line 118: What are the compositions of the food waste? As it contains diverse range of food waste which may contain protein, lignocellulosic, and others. As it contains different compounds, the pyrolysis behavior will be affected by each of these compounds. Without prior knowledge of the composition, the true behaviour cannot be predicted and the results cannot be replicated when different food wastes are used.

Reaction modeling is based on what rate law? The assumption must be stated clearly.

Line 143: Why the reaction rate constant unit is in second but the reaction time is in minute?

Line 152: The manuscript has used the word "co-pyrolysis" previously. However, in this line the word "fast pyrolysis" is used. Suggest to standarize the word used.

The results are in volume % but the authors did not explained how this are obtained.

Line 158 explanation on the lignin is not clear. How does the lignin molecules being strengthened? Furthermore, as there is no analysis done of the feedstock, it is unclear how significant lignin content can affect the results.

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6. View and Approve your new PDF file including the changed item(s), or if needed, Edit again.

Thank you for submitting your work to the journal, and if you have any questions, please do not hesitate to contact me.
Yours sincerely,

Heliyon

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Apip Amrullah <apip.amrullah@ulm.ac.id>

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1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Mon, Feb 14, 2022 at 7:32 AM

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Apip Amrullah <apip.amrullah@ulm.ac.id>

Editorial Manager username and password

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Thu, Mar 3, 2022 at 7:42 AM

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Apip Amrullah <apip.amrullah@ulm.ac.id>

Decision on submission HELIYON-D-22-01296 to Heliyon

1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Tue, Mar 8, 2022 at 9:17 AM

Ms. No.: HELIYON-D-22-01296

Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

Journal: Heliyon

Dear Mr AMRULLAH,

Thank you for submitting your manuscript to Heliyon. We have now received all of the editor and reviewer comments on your recent submission to Heliyon. Your paper should become acceptable for publication pending suitable minor revision outlined below. We ask that you respond to each reviewer comment by either outlining how the criticism was addressed in the revised manuscript or by providing a rebuttal to the criticism. This should be carried out in a point-by-point fashion as illustrated here:

<https://www.cell.com/heliyon/guide-for-authors#RevisionsTo> allow the editors and reviewers to easily assess your revised manuscript, we also ask that you upload a version of your manuscript highlighting any revisions made. You may wish to use Microsoft Word's Track Changes tool or, for LaTeX files, the latexdiff Perl script (<https://ctan.org/pkg/latexdiff>).

To submit your revised manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu. Your revision due date is Mar 27, 2022. We understand that the COVID-19 pandemic may well be causing disruption for you and your colleagues. If that is the case for you and it has an impact on your ability to make revisions to address the concerns that came up in the review process, please reach out to us.

I look forward to receiving your revised manuscript.

Kind regards,

Reeta Rani Singhanian

Associate Editor - Energy

Heliyon

Editor and Reviewer comments:

Reviewer 1: In this work, the authors report the study on the reaction kinetics and product behavior for biofuel production from co-pyrolysis of food and plastic waste. The experimental results and the developed kinetic model were in good agreement. Therefore, I recommend the acceptance of this paper after minor revisions have been made based on the following comments.

1. The abstract is not informative. Please provide more quantitative data to support the results. Also, the mechanisms of thermochemical conversion for food and plastic waste in terms of biofuel should be briefly mentioned.
2. Under the Introduction part, the author should clarify the uniqueness and advantage of their work compared with other existing works of valuable fuel product derived from biomass feedstock. Moreover, what is the novelty of this study in terms of convert food and plastic waste into fuel methods?
3. There are many technologies for biofuel production from food and plastic waste, such as slow pyrolysis systems, should be introduced in the introduction. The advantages and disadvantages of these techniques should be introduced, followed by the introduction of thermochemical conversion process.
4. The authors should rewrite the objectives of this study, in a separate paragraph, to reveal the significance and importance (originality) of this study.
5. Temperature, reaction time and the components through biomass for thermochemical conversion was a significant influencing factor for the leading to different effects on food and plastic waste systems in this work. Can the author give more detailed discussion the temperature and reaction time effects for the pyrolytic vapours by using food and plastic waste conversion system?
6. In my opinion, the authors should cite some important stepwise thermochemical conversion reactions or mechanisms of for pyrolysis vapours in the text.
7. The authors supply and explain experiments of the thermal stability profile and thermodynamic analysis to confirm the high-quality fuels production with high HHV.
8. There is impressive amount of results. However, the conclusions section needs to improve with selected and highlighted main finding.

Reviewer 2:

Revised manuscript is suitable for publication.

Data in Brief (optional):

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Apip Amrullah <apip.amrullah@ulm.ac.id>

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1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Wed, Mar 9, 2022 at 3:39 PM

This is an automated message.

Manuscript Number: HELIYON-D-22-01296R1

Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

Dear Mr AMRULLAH,

We have received the above referenced manuscript you submitted to the Energy section of Heliyon. To track the status of your manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Revisions Being Processed" folder.

Thank you in advance for your understanding, and best wishes for the holiday season.

Kind regards,
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Apip Amrullah <apip.amrullah@ulm.ac.id>

Decision on submission HELIYON-D-22-01296R1 to Heliyon

2 messages

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <support@elsevier.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Fri, Mar 25, 2022 at 1:51 PM

Manuscript. Number.: HELIYON-D-22-01296R1
Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior
Journal: Heliyon

Dear Mr AMRULLAH,

We have now received all of the reviewers' comments on your recent submission to Heliyon.

The reviewers have advised that your manuscript should become suitable for publication in our journal after appropriate revisions.

If you are able to address the reviewers' comments, which you can find below, I would like to invite you to revise and resubmit your manuscript. We ask that you respond to each reviewer comment by either outlining how the criticism was addressed in the revised manuscript or by providing a rebuttal to the criticism. This should be carried out in a point-by-point fashion as illustrated here: <https://www.cell.com/heliyon/guide-for-authors#Revisions>

To allow the editors and reviewers to easily assess your revised manuscript, we also ask that you upload a version of your manuscript highlighting any revisions made. You may wish to use Microsoft Word's Track Changes tool or, for LaTeX files, the latexdiff Perl script (<https://ctan.org/pkg/latexdiff>).

To submit your revised manuscript, please log in as an author at <https://www.editorialmanager.com/heliyon/>, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu. Your revision due date is Apr 24, 2022.

We understand that the COVID-19 pandemic may well be causing disruption for you and your colleagues. If that is the case for you and it has an impact on your ability to make revisions to address the concerns that came up in the review process, please reach out to us.

I look forward to receiving your revised manuscript.

Kind regards,

Reeta Rani Singhanian
Associate Editor - Energy
Heliyon

Editor and Reviewer comments:

Authors must address the reviewer's comments pointwise, however, need not to cite the articles which has been suggested for further reading unless authors really need it.

Reviewer 3: The authors have well revised the MS for suggested comments. However, in my opinion, the MS still have many quires which needs to be rectified before re consideration for publication in this highly reputed journal. Kindly go through the below key points and revise the MS critically.

- What author means for "Food waste plastic waste" seems single word? Is it food waste and plastic waste? Then rewrite the word to make difference.
- Biomass such as food waste plastic waste to liquid bio-fuels. This sentence is very confusing. Biomass is different and food waste is different. Please clarify and revise them accordingly.
- The abstract should be revise again and introduction of research problem, aim of work and major research in qualitative and quantitative form. No reaction pathway for conversion of food and plastic waste
- It is well known that increasement of temperature for long time will lead in bio oils and gas production. Please state the novelty of the research done compared to prior art. Please state the pyrolysis condition selection criteria.
- However, it's unclear, whether the author has performed any optimization study for high pyrolytic oil yield. Please state the best optimized condition for high yield as varying temperature leads 20-66% oil yield in overall. Which is the critical factor either temperature, or time??
- Please state the selection criteria for food waste and plastic waste ratio (100FW, 70FW:30PW; 60FW:40PW; 50FW:50PW)? It seems the author has randomly selected these ratios.
- The author should mention either PW: FW or FW: PW for orderness thorough the MS. Kindly revise them accordingly through the MS.
- Bio-oil characteristics significantly varied with PW:FW ratios. Please state what characteristics the author has done?
- Biomass is renewable, cheap, abundant carbon rich resource over globe, which can be employed for production of renewable fuels, chemical and materials using biochemical and thermochemical techniques. Please use this terminology to define biomass.
- Pyrolysis is cost-effective and energy-efficient way to convert biomass into biofuels and useful compounds? Maintaining the temperature to 400-600 degree is highly energy intensive process. Please justify your comment for cost and energy-efficient?
- Repetition of phrases should be minimum. Define the pyrolysis at once.
- The lignocellulosic biomass contains three essential 74 components: cellulose, lignin, and hemicellulose. The author should define the compositional analysis of biomass. Please follow <https://pubs.acs.org/doi/abs/10.1021/ef5027373> for compositional analysis of biomass.
- The author claims that Lignin's structure is unknown. However, I would like to mention to author, that there is a vast study and literature is available over lignin structure. Please follow below articles and change your comments.
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- The introduction should be re written. The author should see the connecting order of the phrases. For instance, initially, the author has descried, energy, then biomass then pyrolysis then biomass decomposition then food waste then plastic. There is no relationship between the phrases. Kindly revise them critically and make a contituty between the phrases. The author should start with energy, waste problem, them, plastic and them come up with a solution using lignocellulosic biomass or food waste and them comes with conversion portfolio. In later context, mention the pyrolysis demand, benefits and research gaps. Then define your scope of the research work and so on.
- There are various studies have been done over co pyrolysis of biomass and food waste. Please see the below articles and state the novelty of the research.
- <https://www.sciencedirect.com/science/article/pii/S0960852417317893>
<https://pubs.acs.org/doi/abs/10.1021/acs.energyfuels.9b03135>
https://publications.aston.ac.uk/id/eprint/41084/1/Co_pyrolysis_of_biomass_and_plastic_waste.pdf
<https://dr.lib.iastate.edu/entities/publication/dd8965ca-03f0-485a-a8ee-a823d8f2d743>
<https://hal.archives-ouvertes.fr/hal-01700742/document>
<https://www.degruyter.com/document/doi/10.1515/revce-2019-0046/html?lang=en>
- The author has not provided any data on residual carbon or char formation during pyrolysis plastic or food waste. Please comment.
- Conclusion should be short enough to describe the major finding of the research done in qualitative and quantitate forms.

- The high heating value (HHV) of the food and plastic 331 waste bio-oil was 14.2-42.5 MJ/kg. why such broad range?
- Figure 3. The axis of figure should be clearly mentioned. What author mean for "gr"? Kindly define.
- Food waste contains high moisture content. However, table 1 showed contained 8.70 %. Which is contrary. Please comment. Besides, the author should use 8.70 and 5.10... instead 8,70, 5,10. Kindly revise for all accordingly.
- Figure 6(c), the author should use temperature in Kelvin rather than in degree Celsius.

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Apip Amrullah <apip.amrullah@ulm.ac.id>
To: Obie Farobie <obiefarobie@apps.ipb.ac.id>
Cc: obiefarobie@gmail.com

Fri, Mar 25, 2022 at 2:10 PM

[Quoted text hidden]



Apip Amrullah <apip.amrullah@ulm.ac.id>

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1 message

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Sun, Jun 5, 2022 at 10:43 PM

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Manuscript Number: HELIYON-D-22-01296R3

Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

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Apip Amrullah <apip.amrullah@ulm.ac.id>

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Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Tue, Jun 28, 2022 at 7:12 AM

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Manuscript Number: HELIYON-D-22-01296R4

Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

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Decision on submission HELIYON-D-22-01296R5 to Heliyon

3 messages

Heliyon <em@editorialmanager.com>
Reply-To: Heliyon <info@heliyon.com>
To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Mon, Jul 25, 2022 at 2:08 PM

Ms. No.: HELIYON-D-22-01296R5
Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior
Journal: Heliyon

Dear Mr AMRULLAH,

Thank you for submitting your manuscript to Heliyon.

We have now received all of the editor and reviewer comments on your recent submission to Heliyon. Your paper will become acceptable for publication after implementation of minor formatting and/or administrative changes outlined below. To avoid unnecessary delays in the publication of your manuscript, please do not make any other additional changes during this revision.

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Kind regards,

Pradipa Mourougane
Editorial Section Manager
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- 2 - Performed the experiments;
- 3 - Analyzed and interpreted the data;
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Apip Amrullah <apip.amrullah@ulm.ac.id>

Mon, Jul 25, 2022 at 6:12 PM

To: Justinus Satrio <justinus.satrio@villanova.edu>

Salam,
Selamat pagi Prof Justinus,
Berikut saya lampirkan tindak lanjut manuscript yang dulu pernah saya tulis sebagai output posdoctoral lalu. Ini ada beberapa komentar dari reviewer nya, mohon kiranya bantuan Prof Justin untuk bisa memberikan masukan atau revisinya. File aslinya akan saya kirim melalui email selanjutnya.
Trimakasih

Salam,
Apip
[Quoted text hidden]

Apip Amrullah <apip.amrullah@ulm.ac.id>

Mon, Jul 25, 2022 at 7:53 PM

To: Justinus Satrio <justinus.satrio@villanova.edu>

Salam Prof Justin,
Berikut kami lampirkan manuscript yang sudah direvisi berdasarkan permintaan reviewer sebelumnya "minor revisi", dan ini ada lagi revisi yang ke 5 kalinya. Mungkin Prof Justinus bisa membantu kami untuk komentar-komentar diemail sebelumnya Prof. Terimakasih,
Mohon bantuan dan arahnya.

Salam,
Apip
[Quoted text hidden]

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To: apip AMRULLAH <apip.amrullah@ulm.ac.id>

Fri, Aug 5, 2022 at 7:46 AM

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Manuscript Number: HELIYON-D-22-01296R6

Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior

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Tue, Aug 9, 2022 at 9:42 PM

Manuscript Number: HELIYON-D-22-01296R6
Title: Synergetic biofuel production from co-pyrolysis of food and plastic waste: reaction kinetics and product behavior
Journal: Heliyon

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Thank you for submitting your manuscript to Heliyon.

I am pleased to inform you that your manuscript has been accepted for publication.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

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