

Reviewer Invitation for Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy - TBFU-2022-0193

1 pesan

Biofuels <em@editorialmanager.com> Balas Ke: Biofuels <tbfu-peerreview@journals.tandf.co.uk> Kepada: Hasanudin Hasanudin <hasanudin@mipa.unsri.ac.id> 9 Agustus 2022 pukul 02.32

Aug 08, 2022

Dear Dr. Hasanudin,

You have been invited to review a manuscript for Biofuels.

I would be grateful if you would review a paper entitled "Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy" for this journal.

This is the abstract:

This article evaluates the effect of Ultra-Low Sulphur Diesel (ULSD)-Waste Cooking Oil Biodiesel (WCO) blends (B5, B10, B20) on the fuel spray macroscopic properties such as penetration, angle, and area when a split injection strategy is used. The spray macroscopic parameters were measured in a constant volume chamber under non-reactive and evaporative conditions using an injection and back pressure of 120 MPa and 5 MPa, respectively. WCO biodiesel was produced at a semi-industrial scale using real waste cooking oil collected in Mexico City. It was observed that the increase of density and viscosity directly influences spray tip penetration, whereas surface tension affects spray angle. The values of spray penetration and spray area of all fuels during the second injection were higher than those of the first injection. Accordingly, the first injection event provokes an improvement mixing process of the second injection event in all cases. The values of spray penetration and

area corresponding to B10 and B20 were higher than those of B5 and ULSD in both injection events at all times. Therefore, the split injection could be an effective strategy to improve the mixing process of biodiesel blends to optimize emissions and engine performance.

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The manuscript reference is TBFU-2022-0193.

If possible, I would appreciate receiving your review in 14 days. You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

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Marc A. Rosen, PhD Editor-in-Chief

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Thank you for agreeing to review - TBFU-2022-0193

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Aug 08, 2022

Dear Dr. Hasanudin,

Thank you for agreeing to review manuscript TBFU-2022-0193 for Biofuels.

To download the paper now, please click this link: https://www.editorialmanager.com/tbfu/l.asp?i=118852&I=QYBF2CE5 *

If possible, I would appreciate receiving your review by Aug 22, 2022.

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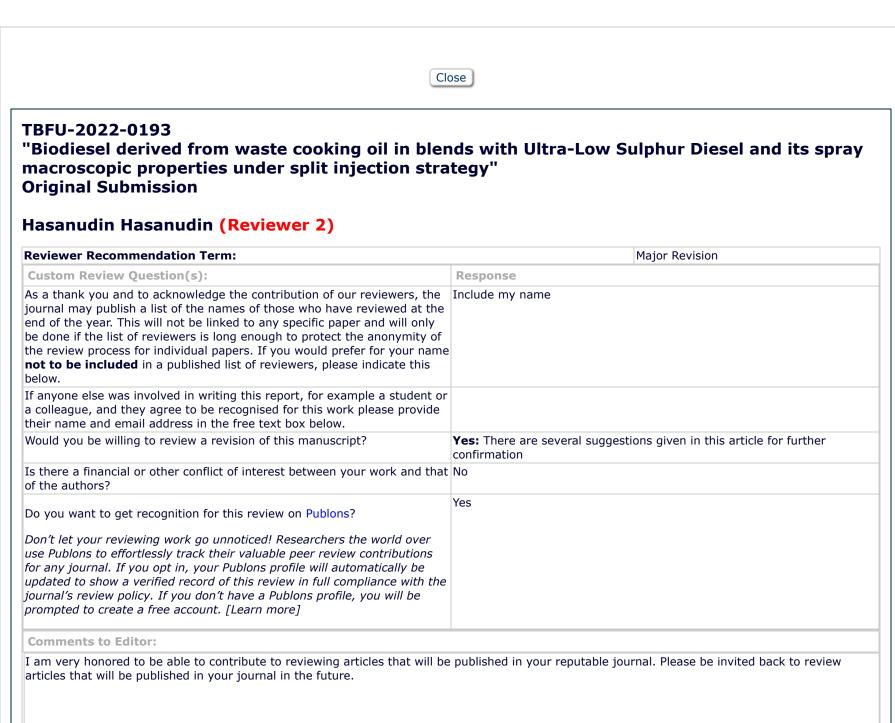
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Review_Due.ics

9 Agustus 2022 pukul 03.42



Comments to Author:

1. In the biodiesel production procedure section, the author does not explain in detail the ratio of used cooking oil to methanol. It should be explained in detail so that other researchers who will conduct similar studies will be able to compare the results of their research with this study.

2. When viewed from the feedstock used is WCO which contains about 3% FFA, then the catalyst used greatly affects the product, while in this study it has not been explained the type of catalyst used.

3. The results of the research in the chemical reaction section, this article states: "For the five batches produced, with a content of methyl esters for each batch was greater than 96.5%w, which was monitored by infrared spectroscopy". The author has not explained where the 96.5% value can be obtained, the author should explain the calculation of the 96.5% value obtained.

4. Identification of the FAME formed using 1H-NMR without the 1H-NMR spectrum of WCO feed before the reaction was carried out. So it is difficult to identify the success of the esterification process of WCO into FAME. author Can refer to the article: "Pertanika Journal Science & Technology 30 (1): 377 - 395 (2022)", the article describes the formation of FAME from fatty and fatty acid feeds.

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Aug 19, 2022

Ref.: Ms. No. TBFU-2022-0193 Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy Biofuels

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Aug 21, 2022

Ref.: Ms. No. TBFU-2022-0193

Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy Biofuels

Dear Dr. Hasanudin,

A decision of Major Revision has been made on Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy, the manuscript that you recently reviewed for Biofuels.

Thank-you for taking the time to review this manuscript. A copy of the decision letter can be found below.

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From: "Biofuels" TBFU-peerreview@journals.tandf.co.uk Subject: 223355996 (Biofuels) A revise decision has been made on your submission Aug 21, 2022

Ref: TBFU-2022-0193 223355996 Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy Biofuels

Dear ******** ********.

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 review a revision.

For your guidance, reviewers' comments are appended below.

Your revision is due by Sep 20, 2022.

12/23/22, 9:40 AM

Email Sriwijaya University - A decision has been made on TBFU-2022-0193

In accordance with our format-free submission policy, an editable version of the article must be supplied at the revision stage. Please submit your revised manuscript files in an editable file format.

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When addressing as appropriate within the paper all comments of the reviewers:

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Yours sincerely

Marc A. Rosen, PhD Editor-in-Chief Biofuels

Comments from the Editors and Reviewers:

Reviewer #1: The manuscript discusses an important topic. However, there are few issues that are to be addressed by the authors:

* The abstract needs to be improved. The author should follow the pattern of abstract composition: [problem definition] -> [concept] -> [action] -> [results] -> [significance].

* The research gap is not clear. The authors should clearly state the research gap and significance of the study in the introdution section.

* The literature review is not comprehensive. I suggest to present the literature review in more elaborative way and incorporating more recent studies.

* The authors need to critically present their findings in the discussion section. Perhaps, few comparative analysis with similar studies could be suitable. I strongly suggest to go through few relevant papers indexed in Scopus or Web of Science.

Reviewer #2: 1. In the biodiesel production procedure section, the author does not explain in detail the ratio of used cooking oil to methanol. It should be explained in detail so that other researchers who will conduct similar studies will be able to compare the results of their research with this study.

2. When viewed from the feedstock used is WCO which contains about 3% FFA, then the catalyst used greatly affects the product, while in this study it has not been explained the type of catalyst used.

3. The results of the research in the chemical reaction section, this article states: "For the five batches produced, with a content of methyl esters for each batch was greater than 96.5% w, which was monitored by infrared spectroscopy". The author has not explained where the 96.5% value can be obtained, the author should explain the calculation of the 96.5% value obtained.

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Best Regards,

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3 Oktober 2022 pukul 05.16

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Oct 02, 2022

Ref.: Ms. No. TBFU-2022-0193R1 Biodiesel derived from waste cooking oil in blends with Ultra-Low Sulphur Diesel and its spray macroscopic properties under split injection strategy Biofuels

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Abstract

There is a significant interest to evaluate alternative injection strategies in order to improve the performance of

biofuels and its blends in internal combustion engines as a way to decarbonize the transport sector. particularly in https://www.tandfonline.com/doi/abs/10.1080/17597269.2022.2134642?journalCode=tbfu20

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Q Keywords: biodiesel blends WCO split injection diesel spray properties

Aknowledgements

This research was financially supported by SECTEI-183-2021, SECTEI 243-2020, SIP-IPN multidisciplinary 2188,

SIP20221049 and SIP20220200 projects. the DENSO North America Foundation (project (1): Impact of multiple https://www.tandfonline.com/doi/abs/10.1080/17597269.2022.2134642?journalCode=tbfu20

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Disclosure statement

No potential conflict of interest was reported by the authors.



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