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9226 / **Fajri Vidian et al.** / Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply usin **Library**

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49970	Manuscript Fajri Vidian et al Indonesia.docx	April 16, 2024	Article Text
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13 dari 14

[J. Adv. Res. Fluid Mech. Therm. Sc.] Submission Acknowledgement

Eksternal Kotak Masuk ×

Dr. Nor Azwadi Che Sidik <tajuddinm@semarakilmu.com.my> Sel, 16 Apr 2024, 12.30
kepada saya

Terjemahkan ke Indonesia

fajri vidian fajri:

Thank you for submitting the manuscript, "EXPERIMENTAL BIOMASS GASIFICATION IN UPDRAFT GASIFIER WITH GAS OUTLET AT REDUCTION ZONE AND AIR SUPLY USING INDUCED BLOWER" to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Submission URL: https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/authorDashboard/submission/9226
Username: fajri

If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

Dr. Nor Azwadi Che Sidik

Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

9226 / **Fajri Vidian et al.** / Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply usin **Library**

Workflow **Publication**

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Round 1

Round 1 Status
Submission accepted.

Notifications

[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision	2024-04-22 09:18 AM
[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision	2024-05-08 02:47 AM
[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision	2024-06-12 08:16 AM

Reviewer's Attachments

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Revisions

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52075	Manuscript Revision Fajri Vidian ID 49970.docx	May 6, 2024	Article Text
52077	Response To Reviewer ID 49970.docx	May 6, 2024	Other

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[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

2024-04-22 09:18 AM

fajri vidian fajri, Abetnego Situmeang Abet, Heni Fitriani Heni, Taufik Arief Taufik, Muksin Saleh Muksin:

We have reached a decision regarding your submission to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, "EXPERIMENTAL BIOMASS GASIFICATION IN UPDRAFT GASIFIER WITH GAS OUTLET AT REDUCTION ZONE AND AIR SUPLY USING INDUCED BLOWER".

Our decision is: Revisions Required

Please revise your manuscript as requested in the following comments **AND PLEASE FILL IN THE "RESPONSE TO REVIEWERS'" FORM**. Please send the revised manuscript together with the form
WITHIN TWO WEEKS.

Please send the revised manuscript in **Microsoft word file BY FOLLOWING The Journal's format.**

Editorial Comments:

Please cite few articles from following journal that related to your study (**atleast 1 reference**)

- Semarak Engineering Journal
- Semarak International Journal of Islamic Studies and Culture
- Journal of Health and Quality of Life
- Journal of Ship and Marine Structures
- Malaysian Journal of Composite Science and Manufacturing

- Journal of Advanced Research in Experimental Fluid Mechanics and Heat Transfer
- International Journal of Future Ready Learning and Education
- Journal of Advanced Research in Business and Management Studies
- Journal of Advanced Research in technology Innovation and Management
- International Journal of Computational Thinking and Data Science
- Journal of Advanced Research Design
- Journal of Research in Nanoscience and Nanotechnology
- Progress in Energy and Environment
- Journal of Advanced Vehicle System
- Frontiers in Water and Environment
- Journal of Advanced Research in Computing and Applications
- International Journal of Advanced Research in Food Science and Agriculture Technology
- Semarak International Journal of Fundamental and Applied Mathematics

OR

- Journal of Advanced Research in Numerical Heat Transfer
- Journal of Advanced Research in Applied Mechanics
- Journal of Advanced Research in Applied Sciences and Engineering Technology
- CFD Letters
- Journal of Advanced Research in Fluid Mechanics and Thermal Sciences
- Journal of Advanced Research in Micro and Nano Engineering

Collaboration with **international co-author** (*non-malaysian author with affiliation outside Malaysia*) is recommended.

Reviewers' Comments:

Reviewer J:

Dear authors, I have completed the review of your manuscript and here are my main suggestions for revision:

1. The abstract could benefit from a clearer statement of the research objective at the beginning, emphasizing the goal of reducing tar production in updraft gasifiers.

2. It is recommended to provide a brief explanation of why rice husks were chosen as the fuel, considering their low bulk density, to enhance the understanding of the research design.

3. The abstract could be improved by specifying the modifications made to the updraft gasifier, such as the exact positioning of the gas outlet and the use of a blower for air supply, to provide a clearer picture of the experimental setup.

4. Consider adding a brief discussion of the significance of the characterized parameters, such as operating time, duration of gas combustion, air-to-rice husks ratio, and flame color, to better convey the importance of the research findings.

5. The use of the term "flammable gas" may be unclear; consider using a more specific term, such as "syngas" (synthesis gas), to accurately describe the gas produced during gasification.

6. To improve readability, consider rephrasing some of the sentences to reduce complexity and enhance clarity, particularly when describing the experimental conditions and results.

7. Please refer to the following literatures: Effect of particle shape and roughness on the hydrophobicity of low-rank coal surface (http://dx.doi.org/10.1080/19392699.2017.1423066); Comparison of the

adhesion kinetics between air or oily bubble and long flame coal surface in flotation (http://dx.doi.org/10.1016/j.fuel.2021.120139); Analyzing the flotation kinetics of long-flame coal slurry using water-soluble emulsified collector mixtures (http://dx.doi.org/10.1016/j.fuel.2023.130572).

Recommendation: Revisions Required

RESPONSE TO EDITOR COMMENT AND REVIEWER FOR MANUSCRIPT ID 49970 (Fajri Vidian)

No	**Chief Technical Editor's comments:** (General comments for all manuscripts. Please crosscheck your manuscript with the following details)	Please tick here (√)
1	Manuscript has been revised by following the **Journal's template**	(√)
2	Full name and e-mail address of all authors have been provided	(√)
3	The abstract section contains **short introduction of the background study**, **problem statement**, **objective** of the paper, **briefing about the used method** and **main findings**.	(√)
4	Title and abstract have been proofread and free from any grammatical errors (you may also visit https://www.semarakilmuedit.com.my for proofreading service)	(√)
5	Research gap and contribution of study have been described in the **last paragraph of the introduction section**	(√)
6	**All citation numbers must be in ascending**	(√)
7	Clear, readable, and high-resolution of all figures have been provided	(√)
8	Citation in the body paragraph, the **"et al"**must be written as "*et al.,*".	(√)
9	Citation cannot stand alone as subject or object. It just as a support to a statement. For example, " ..... are taken **from [17, 21-23]**.....", should be written as " ..... are taken **from the previous studies [17, 21-23]**..... ". Please CHECK.	(√)
10	Please use **Chicago style for the reference list (refer this video)**. Also, please **write together** with **DOI with hyperlink for each reference, if any.** (you may check the DOI of those publications in this **link**). Please do not put any link except DOI.	(√)

No.	**Editor Comment**	**Respond**
1	Please cite few articles from following journal that related to your study (atleast 1 reference) from • Journal of Advanced Research in Numerical Heat Transfer • Journal of Advanced Research in Applied Mechanics • Journal of Advanced Research in Applied Sciences and Engineering Technology • CFD Letters • Journal of Advanced Research in Fluid Mechanics and Thermal Sciences • Journal of Advanced Research in Micro and Nano Engineering	I has been citied article as shown below [2] Suksuwan. Wasu, Mohd Faizal Mohideen Batcha, Arkom Palamanit, Maizirwan Mel and Makatar Wae-hayee, The effect Air Equivalensi Ratio on Combustion and Gasification Process Characteristics of Oil Palm Biomass in Fluididized Bed Reactor, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences 99,2 (2022): 108-118. https://doi.org/10.37934/arfmts.99.2.108118 [6] Pengaduan simanjuntak. Janter, Khaled Ali Al-attab, Eka Daryanto, Bisrul Hapis Tambunan and Erwanto, Bionergy as alternative Energy Source : Progress and Development to meet energy mix in Indonesia, Journal of Advanced

		Research in Fluid Mechanics and Thermal Sciences 97, 1 (2022): 85-104. https://doi.org/10.37934/arfmts.97.1.85104.
No.	**Reviewer 1**	**Respond**
1	The abstract could benefit from a clearer statement of the research objective at the beginning, emphasizing the goal of reducing tar production in updraft gasifiers	The abstract has been improved with clearer goal tar reduction, please see in abstract at manuscript revision
2	It is recommended to provide a brief explanation of why rice husks were chosen as the fuel, considering their low bulk density, to enhance the understanding of the research design.	It has been done and please see at methodology in manuscript revision "Rice husks were chosen as fuel in this study because this fuel has many problems when gasified even though it uses a gasifier without a thoroatless area such as an updraft. This is because it is very light and has a low bulk density so the fuel flow in the reactor is not smooth [21], which in turn results in the gasification reaction not taking place properly to ensure the stability of the producer gas"
3	The abstract could be improved by specifying the modifications made to the updraft gasifier, such as the exact positioning of the gas outlet and the use of a blower for air supply, to provide a clearer picture of the experimental setup	The abstract has been improved with specifying modification , please see in abstract at manuscript revision
4	Consider adding a brief discussion of the significance of the characterized parameters, such as operating time, duration of gas combustion, air-to-rice husks ratio, and flame color, to better convey the importance of the research findings.	Several operating characteristics that are important to obtain during testing of the gasification process, especially for new equipment systems, are the operating time in bed, the length of time the existing producer gas, the ratio of air to rice husks, and the color of the flame. Operation time is the time from start-up to the end of the gasification process. Of course, a long operating time is expected with a small amount of fuel. The duration of time that existing producer gas or flame is the time that producer gas is present during the operation. A good existing of producer gas time is obtained about 20 minutes after the operation begins for 1stbed until the end of the operation [22]. The air-to-rice husk ratio is an important parameter to obtain in research which will later become the baseline for supplying air or rice husk if the known parameters are the rice

		husk mass flow rate or air mass flow rate. The color of the flame will indicate the volatile content in the producer gas, the yellow color indicates a high volatile content and also identifies a fairly large tar content, while the bluish color indicates a smaller amount of volatiles and also identifies low tar. The overall blue flame color identifies the amount of tar below 30 mg/m3 [23].
5	The use of the term "flammable gas" may be unclear; consider using a more specific term, such as "syngas" (synthesis gas), to accurately describe the gas produced during gasification	It has been change to producer gas, please see at result and discussion In manuscript revision. "3.1 The duration of operation time and existing flame (producer gas) time"
6.	To improve readability, consider rephrasing some of the sentences to reduce complexity and enhance clarity, particularly when describing the experimental conditions and results.	It has been done, please see at methodology and result discussion in manuscript revision
7	Please refer to the following literatures: Effect of particle shape and roughness on the hydrophobicity of low-rank coal surface (http://dx.doi.org/10.1080/19392699.2017.1423066); Comparison of the adhesion kinetics between air or oily bubble and long flame coal surface in flotation (http://dx.doi.org/10.1016/j.fuel.2021.120139); Analyzing the flotation kinetics of long-flame coal slurry using water-soluble emulsified collector mixtures (http://dx.doi.org/10.1016/j.fuel.2023.130572).	It has been done, please see at result and discussion of 3.3 in manuscript revision "In addition, the size and roughness of the fuel cause hydrophobic and fuel floating differences in the reactor which in turn affects the flame length. [29-31]"

Note: Please add for more reviewers' comments

Notifications ×

[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

2024-05-08 02:47 AM

fajri vidian fajri, Abetnego Situmeang Abet, Heni Fitriani Heni, Taufik Arief Taufik, Muksin Saleh Muksin:

We have reached a decision regarding your submission to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, "EXPERIMENTAL BIOMASS GASIFICATION IN UPDRAFT GASIFIER WITH GAS OUTLET AT REDUCTION ZONE AND AIR SUPLY USING INDUCED BLOWER".

Our decision is to: Accept Submission

Please make payment of Article Processing Charge of RM1500 (**Malaysian Author**) or RM2000 (**International Author**).
The payment can be accomplished through

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OR

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Bank's Name: MAYBANK
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[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

2024-05-08 02:47 AM

fajri vidian fajri, Abetnego Situmeang Abet, Heni Fitriani Heni, Taufik Arief Taufik, Muksin Saleh Muksin:

We have reached a decision regarding your submission to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, "EXPERIMENTAL BIOMASS GASIFICATION IN UPDRAFT GASIFIER WITH GAS OUTLET AT REDUCTION ZONE AND AIR SUPLY USING INDUCED BLOWER".

Our decision is to: Accept Submission

Please make payment of Article Processing Charge of RM1500 (**Malaysian Author**) or RM2000 (**International Author**).
The payment can be accomplished through

1) FPX/Debit/Credit Card

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Bank's Name: MAYBANK
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[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

2024-06-12 08:16 AM

Fajri Vidian, Abetnego Situmeang, Heni Fitriani, Taufik Arief, Muksin Saleh:

The editing of your submission, "Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply Using Suction Blower," is complete. We are now sending it to production. Kindly find the copyedited manuscript under the copyediting tab for your perusal.

Submission URL:
https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/authorDashboard/submission/9226

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Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

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[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

2024-06-12 08:16 AM

Fajri Vidian, Abetnego Situmeang, Heni Fitriani, Taufik Arief, Muksin Saleh:

The editing of your submission, "Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply Using Suction Blower," is complete. We are now sending it to production. Kindly find the copyedited manuscript under the copyediting tab for your perusal.

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Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

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Copyediting Finished	ahmadulwan 2024-05-22 01:39 AM	fajri 2024-06-05 04:41 AM	3	☐

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could be changed the keyword	fajri 2024-06-18 03:30 AM	fajri 2024-06-20 05:33 AM	2	

Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

[J. Adv. Res. Fluid Mech. Therm. Sc.] Editor Decision

7 pesan

Chief Technical Editor <journal2017arfmts@gmail.com> 12 Juni 2024 pukul 15.16
Kepada: Fajri Vidian <fajri.vidian@unsri.ac.id>, Abetnego Situmeang <situmeangabetnego@gmail.com>, Heni Fitriani <heni.fitriani@unsri.ac.id>, Taufik Arief <arieftaufik701@gmail.com>, Muksin Saleh <muks002@brin.go.id>

Fajri Vidian, Abetnego Situmeang, Heni Fitriani, Taufik Arief, Muksin Saleh:

The editing of your submission, "Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply Using Suction Blower," is complete. We are now sending it to production. Kindly find the copyedited manuscript under the copyediting tab for your perusal.

Submission URL: https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/authorDashboard/submission/9226

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Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 13 Juni 2024 pukul 10.17
Kepada: Chief Technical Editor <journal2017arfmts@gmail.com>

Dear Chief Editor

Could I get galley prof before published

best regards

Fajri Vidian

[Kutipan teks disembunyikan]

Fluid Mechanics Thermal Sciences <journal2017arfmts@gmail.com> 13 Juni 2024 pukul 10.50
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Dear Chief Editor

I have checked the manuscript editing.
There is a wrong in In paragraf reference number 26 be writen His but in reference is Hsi, please His change to Hsi

Thank You Very Much for Your Information

Best Regards

Fajri Vdian

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Noted with thanks.
[Kutipan teks disembunyikan]

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 14 Juni 2024 pukul 14.59
Kepada: Fluid Mechanics Thermal Sciences <journal2017arfmts@gmail.com>

Dear Chief Editor

Thank You very much for your information

Best Regards

Fajri Vidian
[Kutipan teks disembunyikan]

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 17 Juni 2024 pukul 21.02
Kepada: Fluid Mechanics Thermal Sciences <journal2017arfmts@gmail.com>

Dear Chief Editor

Apologize me because there is wrong keyword for manuscript with title "EXPERIMENTAL BIOMASS GASIFICATION IN UPDRAFT GASIFIER WITH GAS OUTLET AT REDUCTION ZONE AND AIR SUPLY USING SUCTION BLOWER"

I hope the keyword is changed from : SOFC, Fuel Cell, Low rank Coal, Gasification, Producer Gas **To : Updraft Gasifier, Gas Outlet , Reduction Zone, Suction blower, Rice Husks**

Best Regards

Fajri Vidian

[Kutipan teks disembunyikan]

Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

[J. Adv. Res. Fluid Mech. Therm. Sc.] New notification from Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

2 pesan

Chief Technical Editor <journal2017arfmts@gmail.com> 19 Juni 2024 pukul 14.05
Balas Ke: "Dr. Nor Azwadi Che Sidik" <tajuddinm@semarakilmu.com.my>
Kepada: fajri vidian fajri <fajri.vidian@unsri.ac.id>

You have a new notification from Journal of Advanced Research in Fluid Mechanics and Thermal Sciences:

There is new activity in the discussion titled "could be changed the keyword" regarding the submission "Experimental Biomass Gasification in Updraft Gasifier with Gas Outlet at Reduction Zone and Air Supply using Suction Blower".

Link: https://semarakilmu.com.my/journals/index.php/fluid_mechanics_thermal_sciences/authorDashboard/submission/9226

Dr. Nor Azwadi Che Sidik

_____
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 20 Juni 2024 pukul 12.36
Kepada: "Dr. Nor Azwadi Che Sidik" <tajuddinm@semarakilmu.com.my>

Dear Chief Editor

Thank You very much for your attention

Best regards
Fajri Vidian

[Kutipan teks disembunyikan]