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

Could you help me

3 pesan

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 22 Maret 2023 pukul 18.28
Kepada: azwadi@akademiabaru.com

Dear Dr. Nor Azwadi Che Sidik
Journal of Advanced Research in Fluid Mechanics and Thermal Science

My name is fajri vidian, a lecture mechanical engineering universitas sriwijaya, Inderalaya, Indonesia. I have two time sent paper to Journal of Advanced Research in Fluid Mechanics and Thermal Science through online submission but not success (the proof is attached). Please help me how to make it success or there is another way to submit my paper to your journal

Best Regard
Fajri Vidian

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Nor Azwadi Che Sidik <azwadi@akademiabaru.com> 23 Maret 2023 pukul 09.06
Kepada: Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

Hi

Please sent your paper to this email.

Thanks
Dr. Nor Azwadi Che Sidik
Founder & Director of Semarak Ilmu Publishing and Akademia Baru Publishing
Top Research Scientist Malaysia (2020)
Malaysia Research Star Award (2018)
The Stanford list of World Top 2% Researcher
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azwadi@akademiabaru.com

_____
SCOPUS INDEXED CONFERENCE

World Conference on Advanced Technology and Applied Mechanics (WCATAM2022)
18 March 2023, Putrajaya, Malaysia
https://submit.confbay.com/conf/wcatam2023

On 22 Mar 2023, at 7:28 PM, Fajri Vidian unsri <fajri.vidian@unsri.ac.id> wrote:

<The Proof of failure submission.docx>

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 23 Maret 2023 pukul 09.30
Kepada: Nor Azwadi Che Sidik <azwadi@akademiabaru.com>

Dear Dr. Nor Azwadi Che Sidik

Subject: Submission of Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

Please find my submission of the manuscript title "**Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell Using Cycle Tempo: Energetic Analysis**" for possible publication in your journal.

I hereby affirm that the contents of this manuscript are original. Furthermore, it has neither been published elsewhere in any language fully or partly, nor is it under review for publication anywhere.

Also, if our manuscript is accepted, we agree to comply with the formalities as per the policies of journal.

NAME OF CORRESPONDING AUTHOR: Fajri Vidian
Affiliation: Department of Mechanical Engineering, Universitas Sriwijaya, Sumatera-Selatan, Indonesia
E-mail Address: fajri.vidian@unsri.ac.id

Best regards

FAJRI VIDIAN

[Kutipan teks disembunyikan]

Manuscript Fajri Vidian et al Indonesia.docx
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Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

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

2 pesan

Dr. Nor Azwadi Che Sidik <azwadi@akademiabaru.com> 23 Maret 2023 pukul 09.41
Kepada: fajri vidian fajri <fajri.vidian@unsri.ac.id>

fajri vidian fajri:

Thank you for submitting the manuscript, "Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell Using Cycle Tempo: Energetic Analysis " 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/1897
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

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 23 Maret 2023 pukul 10.27
Kepada: "Dr. Nor Azwadi Che Sidik" <azwadi@akademiabaru.com>

Dear
Dr Nor Azwadi Che Sidik

Thank You Very Much for your information.

Best Regards

Fajri Vidian

[Kutipan teks disembunyikan]

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

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

2 pesan

Nor Azwadi <azwadi@akademiabaru.com> 10 April 2023 pukul 22.54
Kepada: fajri vidian fajri <fajri.vidian@unsri.ac.id>

fajri vidian fajri:

We have reached a decision regarding your submission to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, "Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell Using Cycle Tempo: Energetic Analysis ".

Our decision is: Revisions Required

Please submit the revised article by 24 Apr 2023

Editorial Comments:

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Please proofread the paper, visit https://www.semarakilmuedit.com.my

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Reviewer C:

The paper describes the way to increase efficiency of SOFC by using the delivered producer gas and gas obtained in the gasification process by computational methods. The work requires additional information about methods used in simulation process.

1. The simulation process should be precisely described, because there is any information about the used software and initial and boundary conditions.

2. Figures 1 and 2 require explanation of the modules shown in the pictures, what they represent.
3. The gasification process should be shortly explained with the initial values and the products from the gasifier should be specified (molar or mass content of species) with low caloric value.
4. The first method with the producer gas does not take into account the energy used for production and therefore shows higher efficiency.
5. How was the efficiency calculated (formula)?
6. The figures 3 and 4 present power and efficiency in the cell temperature function, but there are any information about the constant conditions under which were carried out. This remark concerns also to all presented results.
7. Discussion of the results should be made.
8. The language requires correction.

Generally, the paper must be completely revised and supplemented.

Recommendation: Resubmit for Review

_____
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

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Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 12 April 2023 pukul 12.42
Kepada: Nor Azwadi <azwadi@akademiabaru.com>

Dear
Dr Nor Azwadi

Thank You very much for your information. I will do as soon as possible.

Best regard

Fajri Vidian
[Kutipan teks disembunyikan]

RESPONSE TO EDITOR COMMENT AND REVIEWER FOR MANUSCRIPT

A. EDITOR COMMENT

1. Please cite few articles from

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e. http://www.akademiabaru.com/submit/index.php/arefmht

Response: I has been citied article as shown below

a) "Khashayar Rahnamay Bahambary,Brian Fleck, A study of inflow parameters on the performance of a wind turbine in an atmospheric boundary layer, Journal of Advanced Research in Numerical Heat Transfer, 11(1), (2022); 5-11".
b) "Noor Fateen Afikah Binti Yahya, Negar Dasineh Khiavi, Norahim Bin Ibrahim, Green electricity production by Epipremnum Aureum and bacteria in plant microbial fuel cell, Journal of Advanced Research in Applied Sciences and Engineering Technology, 5 (1), (2016); 22-31"

2. Please proofread the paper, visit https://www.semarakilmuedit.com.my

Response: the English has been corrected by proof reading, please see in manuscript revision. If it still must improve, please give addition time to submit to https://www.semarakilmuedit.com.my

B. REVIEWER C COMMENT

1. The simulation process should be precisely described, because there is any information about the used software and initial and boundary conditions

Responses: The simulation process has been precisely described please see in methodology in manuscripts revision

"This study simulates the performance of two mode Fuel Cell power plant using Cycle Tempo Release 5.
The simulation was performed using a solid oxide fuel cell (SOFC)- direct internal by varying the cell surface area (15000, 20000, 2500, and 30000 m^2), Cell Temperature (750 ^{0}C, 850 ^{0}C, 950 ^{0}C, and 1050 ^{0}C), Current density (1500, 2000, 2500, 3000 A/m^2), and cell pressure (1.15, 2.15, 3.15, and 4.15 bar). The other boundary condition of simulation as shown in Table 1.

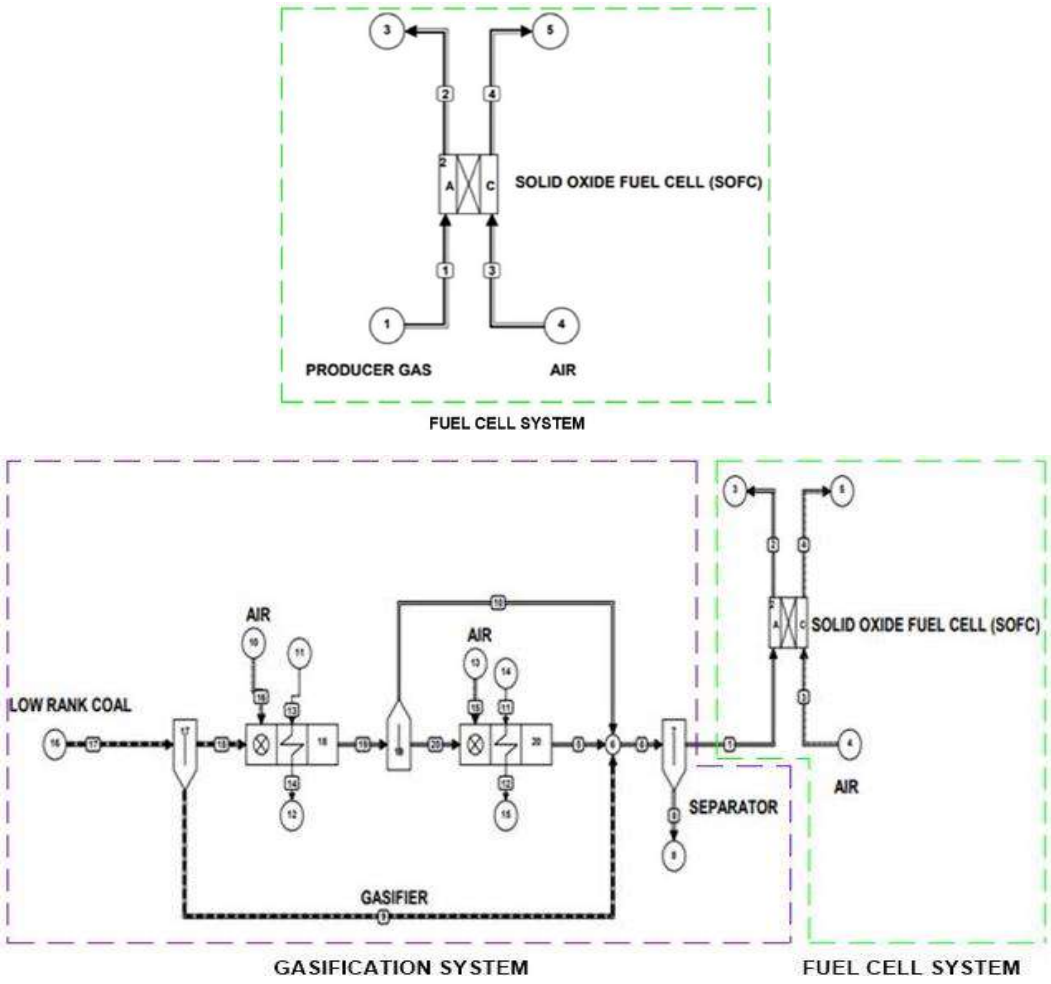
Table 1
The boundary condition of simulation

Parameter of Fuel Cell	Value
Pressure at anode inlet	1.15 bar
Pressure at cathode inlet	1.15 bar
Temperature at anode Inlet	700 ^{0}C
Temperature at cathode outlet	700 ^{0}C
Pressure Reaction	1.15 bar
Temperature Reaction	950 ^{0}C
Cell Resistance	0.000075-ohm m^2

Fuel-Utilisation	0.85

2. Figures 1 and 2 require explanation of the modules shown in the pictures, what they represent

Responses: Figures 1 and 2 have been explained please see in manuscript revision.



3. The gasification process should be shortly explained with the initial values and the products from the gasifier should be specified (molar or mass content of species) with low caloric value.

Responses: The gasification process has been shortly explained, please see at methodology in manuscript revision.

"The second mode (II) involves the integration of the gasification system with the fuel cell system as shown in Figure 2. The simulation was carried out under gasification conditions with an air-fuel ratio of 1.25, and the consumption rate of low-rank coal in the range of 4.8 to 9.7 kg/s. The ultimate analysis of the coal for gasification, which was obtained from South Sumatra, Indonesia is referred from [27]. The block cycle tempo model for the gasification unit was modeled using a two-stage equilibrium principle [28] with temperature of

equilibrium of 500^0C and 850^0C respectively. The producer gas was produced from gasification with compositions in mole fraction about CO 21.23 %; H_2 19.08%; CH_4 3.31%; CO_2 10.50%; N_2 44.86%, Ar 0.53%, H_2O 0.49%. The Lower Heating Value of producer gas is 5453.04 kJ/kg"

4. **The first method with the producer gas does not take into account the energy used for production and therefore shows higher efficiency.**

Response: Yes I agree. Your statement has been used in result and discussion in manuscript revision. Please see manuscript revision.

5. **How was the efficiency calculated (formula)?**

Response : the efficiency is calculated using the formula below, and it has been added in methodology

$$\textbf{Efficiency} = \frac{\textbf{Delivery net power (kW)}}{\textbf{Absorbed power (kW)}}$$

6. **The figures 3 and 4 present power and efficiency in the cell temperature function, but there are any information about the constant conditions under which were carried**

Response : The information about constant condition parameters have been added in result and discussion please see in manuscript revision

"The simulation results indicated that an increase in cell temperature from 750 to 1050 ^{0}C at constants of current density (1500 A/m^2), cell area (20000 m^2), Pressure of cell (1.15 bar) and other boundary condition as shown in Table 1"

7. **Discussion of the results should be made**

Response: Results and discussion have been made in a combined way, please see in manuscript revision.

8. **The language requires correction.**

Response: The language has been correction please see in manuscript revision

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

Manuscript revision dan response to reviewer for manuscript ID 1897 (FAJRI VIDIAN)

1 pesan

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 24 April 2023 pukul 22.17
Kepada: Nor Azwadi Che Sidik <azwadi@akademiabaru.com>

Dear Dr. Nor Azwadi Che Sidik

I have finished revising manuscript ID 1897 with title Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell Using Cycle Tempo: Energetic Analysis". I attach the manuscript revision and the response to the reviewer comment.

Best Regards

Fajri Vidian

4 lampiran

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Manuscript Fajri Vidian REVISION.pdf
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response to reviewer manuscript Fajri vidian.docx
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response to reviewer manuscript Fajri vidian.pdf
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Fajri Vidian unsri <fajri.vidian@unsri.ac.id>

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

2 pesan

Nor Azwadi <azwadi@akademiabaru.com> 25 April 2023 pukul 07.36
Kepada: fajri vidian fajri <fajri.vidian@unsri.ac.id>

fajri vidian fajri:

We have reached a decision regarding your submission to Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, "Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell Using Cycle Tempo: Energetic Analysis ".

Our decision is to: Accept Submission

Please make payment of Article Processing Charge of USD400 (International Corresponding Author) or RM1500 (Malaysian Corresponding Author).
The payment can be accomplished through

1) Bank in, Bank transfer or Telegraphic transfer to the following details:

OR

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Thank you

Truly

Editor-in-chief, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

Journal of Advanced Research in Fluid Mechanics and Thermal Sciences

Fajri Vidian unsri <fajri.vidian@unsri.ac.id> 26 April 2023 pukul 13.33
Kepada: Nor Azwadi <azwadi@akademiabaru.com>

Dear Dr. Nor Azwadi Che Sidik

Thank You very much for your information, I will do the payment as soon as possible.

Best Regards

Fajri Vidian

[Kutipan teks disembunyikan]

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

Congratulations, your paper has been published!

1 pesan

notification <notification@akademiabaru.com> 6 Juni 2023 pukul 10.26
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Cc: azwadi@akademiabaru.com

Congratulations, your paper has been published!

Dear Fajri Vidian, Wiranda Satria Atmaja, Ferdy Kurniawan, Rahmad Aldy, Taufik Arief, Heni Fitriani

Your work has now been published in the Journal of Advanced Research in Fluid Mechanics and Thermal Sciences Vol.105, No.1

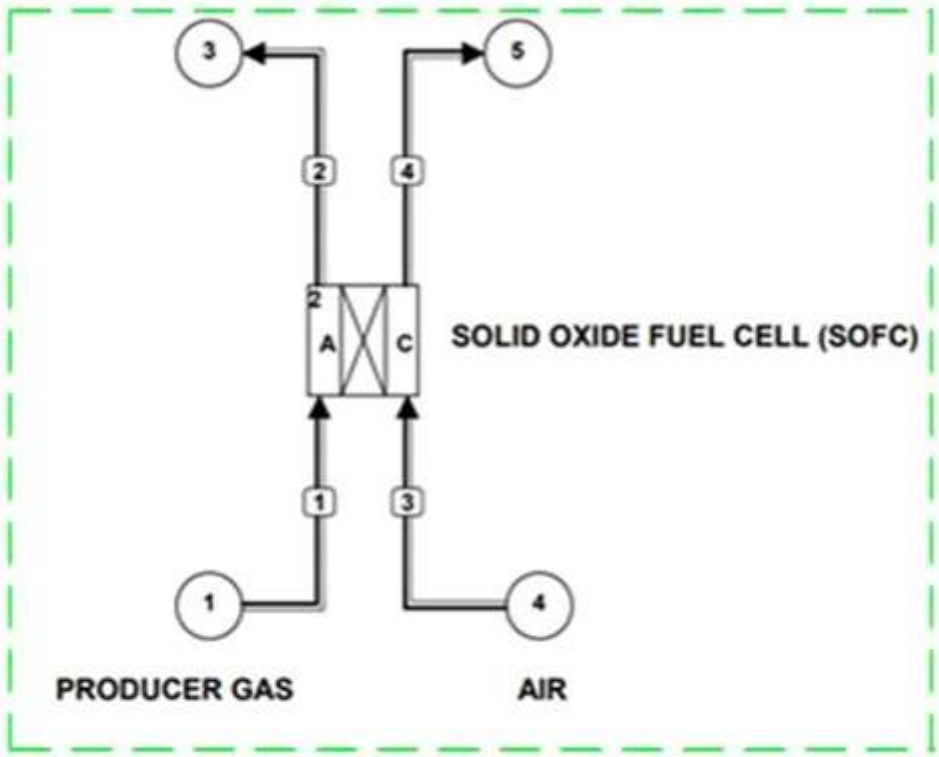

Fig. 1. The fuel cell system using producer gas as fuel arranged in the cycle tempo simulator (Mode 1)

Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell using Cycle Tempo: Energetic Analysis

It's the final version of your work and can be cited, downloaded and shared.

Fajri Vidian, Wiranda Satria Atmaja, Ferdy Kurniawan, Rahmad Aldy, Taufik Arief, & Heni Fitriani. (2023). Simulation Integrated Low Rank Coal Gasification SOFC Fuel Cell using Cycle Tempo: Energetic Analysis. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, *105*(1), 31–40. https://doi.org/10.37934/arfmts.105.1.3140

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