



Teguh Kurniawan <teguh@untirta.ac.id>

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Kepada: teguh@untirta.ac.id

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Teguh Kurniawan <teguh@untirta.ac.id>

Trs: Re: Decision on submission HELIYON-D-22-10381 to Heliyon

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Anton Irawan <anton11975@yahoo.com>
Balas Ke: Anton Irawan <anton11975@yahoo.com>
Kepada: Teguh Kurniawan <teguh@untirta.ac.id>

14 Juni 2022 pukul 18.48

Dikirim dari Yahoo Mail di Android

----- Pesan yang Diteruskan -----

Dari: "Anton Irawan" <antonirawan@untirta.ac.id>**Kepada:** "RIAN NAUFAL" <anton11975@yahoo.com>**Cc:****Terkirim:** Sel, 14 Jun 2022 pada 19:47**Judul:** Re: Decision on submission HELIYON-D-22-10381 to Heliyon

Pada tanggal Sel, 14 Jun 2022 pukul 14.56 Heliyon <em@editorialmanager.com> menulis:

Manuscript. Number.: HELIYON-D-22-10381

Title: An optimization study of the Electric Arc Furnace (EAF) from the steelmaking process with three different cases using MATLAB® and Computational Fluid Dynamic (CFD) software.

Journal: Heliyon

Dear Dr.-Ing Irawan,

Thank you for submitting your manuscript to Heliyon. We have completed the review of your manuscript and a summary is appended below. The reviewers recommend major revisions are required before publication can be considered. If you are able to address all reviewer comments in full, I invite you to 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.

Your revision due date is Jul 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,

Matt Liu

Scientific Managing Editor

Heliyon

Editor and Reviewer comments:

please kindly check and address to the comments from reviewers as follows. we totally understand the affect of pandemic. so please feel free to reach out to us in advance if you feel overwhelming to address to all those comments with reason(s), if any, before deadline. we look forward to your reply soon. good luck and take care!

Reviewer 1: Methods:Please refer to the "Other comments" section.

Results:Please refer to the "Other comments" section.

Interpretation:Please refer to the "Other comments" section.

Other comments:

Following are the comments that can be pursued for improving the paper:

1. How the data presented in Table 1 have been measured? Do you have any sources or references?
2. Also, Fig. 1 should be supported by an appropriate reference.
3. More information should be given regarding the differential equations given in the paper. In other words, how these mathematics models have been derived?
4. The conclusion section of the manuscript needs to be more detailed and robust. Please revise this part of the paper.

Reviewer 2: The paper addresses a fascinating and appealing research topic. The contents of the paper are sufficient. Some considerations could be evaluated before final acceptance:

Title:

- * The title is too extended; please try to synthesize it.

Introduction:

* Although a brief literature review is provided on EAF processes, a more detailed analysis of the existing research works on this theme is needed. In my experience, computer tools to simulate the EAF process are widespread in the scientific literature (many are available on the market). Please detail the existing simulation models describing their advantages and limits. Consistent with this analysis, please describe the novelties of the proposed model. I think that this approach could lead to identify the papers challenged by this work, not highlighted in the current version of the manuscript.

* I believe the aim of the paper stated in the introduction section is clear. On the contrary, the work's target should be clarified in the manuscript's summary. Let me suggest adopting similar words from the introduction to the abstract of the work to define the paper's goal.

* A brief description of the paper's structure should be included at the end part of the introduction section.

Model development:

* It needed to describe the model; in other words, which are the model's features, the objective function, the output parameters, the constraints, the assumptions, etc. A list of 27 equations is reported without any description.

* Please define which criteria are applied to choose the three cases identified. The authors should justify which considerations have led to identify the range and the values assumed by HM and DRI percentages in three cases simulated.

Results:

* In section "Model Validation", please detail the evaluations to lead to estimate an error of 0.06, 2.8 and 0.074 between the actual and simulated process. In my view, this part of the manuscript requires significant improvement. It is needed that the authors provide all information to evaluate the model's reliability. The authors underestimated this aspect in the current manuscript, not providing enough data to prove the model's dependability in different conditions.

* Consistent with the previous comment, although a low error was evaluated, the authors should provide consistent justification to claim that despite the estimated errors, their values don't compromise the reliability of the simulations.

Conclusion:

* A synthesis of major gaps filled by the manuscript and further development of the approach could help focus the results of the scientific investigation carried out and propose future development.

Figures, tables, and equations:

- * Please describe all figures and tables in the body of the manuscript (e.g., fig. 1 is not introduced in the paper's text).
- * Please show in figures 11,12, and 14 the areas where points 1,2,3, and 4 are located (as shown in fig. 11a).

Mistakes:

- * Please check that all acronyms are defined (in summary and in the body of the manuscript) when they are introduced for the first time. Many acronyms are not defined (e.g., DRI, HBI, etc.), and there are acronyms defined several times (e.g., CFD).
- * Generally, the sections are numbered; please check on the authors' guidelines recommended by the journal's editor

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Teguh Kurniawan <teguh@untirta.ac.id>

Confirm co-authorship of submission to Heliyon

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Heliyon <em@editorialmanager.com>
Balas Ke: Heliyon <info@heliyon.com>
Kepada: Teguh Kurniawan <teguh@untirta.ac.id>

22 Mei 2022 pukul 06.51

This is an automated message.

An optimization study of the Electric Arc Furnace (EAF) from the steelmaking process with three different cases using MATLAB® and Computational Fluid Dynamic (CFD) software. by Dr.-Ing Anton Irawan

Dear Kurniawan,

You have been listed as a contributing author for the above referenced manuscript. Please confirm whether you are a contributing author by clicking one of the following links.

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Teguh Kurniawan <teguh@untirta.ac.id>

Fwd: Decision on submission HELIYON-D-22-10381R3 to Heliyon

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Anton Irawan <antonirawan@untirta.ac.id>
Kepada: teguh@untirta.ac.id

30 Oktober 2022 pukul 06.59

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Dari: **Heliyon** <em@editorialmanager.com>

Date: Jum, 28 Okt 2022 18.10

Subject: Decision on submission HELIYON-D-22-10381R3 to Heliyon

To: Anton Irawan <antonirawan@untirta.ac.id>

Ms. No.: HELIYON-D-22-10381R3

Title: An energy optimization study of the electric arc furnace from the steel-making process with hot metal charging

Journal: Heliyon

Dear Dr.-Ing Irawan,

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.

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. When submitting your revised manuscript, please ensure that you upload your most recent document with the "Revised manuscript file - highlighting revisions made" item type.

Kind regards,

Pradipa Mourougane
Editorial Section Manager
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Editor and Reviewer comments:

Reviewer's Responses to Questions

Note: In order to effectively convey your recommendations for improvement to the author(s), and help editors make well-informed and efficient decisions, we ask you to answer the following specific questions about the manuscript and provide additional suggestions where appropriate.

1. Are the objectives and the rationale of the study clearly stated?

Please provide suggestions to the author(s) on how to improve the clarity of the objectives and rationale of the study.

Please number each suggestion so that author(s) can more easily respond.

Reviewer #3: objectives are well explained and defined

2. If applicable, is the application/theory/method/study reported in sufficient detail to allow for its replicability and/or reproducibility?

Please provide suggestions to the author(s) on how to improve the replicability/reproducibility of their study. Please number each suggestion so that the author(s) can more easily respond.

Reviewer #3: Mark as appropriate with an X:

Yes No N/A

Provide further comments here:

3. If applicable, are statistical analyses, controls, sampling mechanism, and statistical reporting (e.g., P-values, CIs, effect sizes) appropriate and well described?

Please clearly indicate if the manuscript requires additional peer review by a statistician. Kindly provide suggestions to the author(s) on how to improve the statistical analyses, controls, sampling mechanism, or statistical reporting. Please number each suggestion so that the author(s) can more easily respond.

Reviewer #3: Mark as appropriate with an X:

Yes No N/A

Provide further comments here:

4. Could the manuscript benefit from additional tables or figures, or from improving or removing (some of the) existing ones?

Please provide specific suggestions for improvements, removals, or additions of figures or tables. Please number each suggestion so that author(s) can more easily respond.

Reviewer #3: everything ok

5. If applicable, are the interpretation of results and study conclusions supported by the data?

Please provide suggestions (if needed) to the author(s) on how to improve, tone down, or expand the study interpretations/conclusions. Please number each suggestion so that the author(s) can more easily respond.

Reviewer #3: Mark as appropriate with an X:

Yes No N/A

Provide further comments here:

6. Have the authors clearly emphasized the strengths of their study/theory/methods/argument?

Please provide suggestions to the author(s) on how to better emphasize the strengths of their study. Please number each suggestion so that the author(s) can more easily respond.

Reviewer #3: strengths of the study are well argued

7. Have the authors clearly stated the limitations of their study/theory/methods/argument?

Please list the limitations that the author(s) need to add or emphasize. Please number each limitation so that author(s) can more easily respond.

Reviewer #3: limitations of the study are well argued

8. Does the manuscript structure, flow or writing need improving (e.g., the addition of subheadings, shortening of text, reorganization of sections, or moving details from one section to another)?

Please provide suggestions to the author(s) on how to improve the manuscript structure and flow. Please number each suggestion so that author(s) can more easily respond.

Reviewer #3: everything ok

9. Could the manuscript benefit from language editing?

Reviewer #3: No

Reviewer #3: This field is optional. If you have any additional suggestions beyond those relevant to the questions above, please number and list them here.

Please note that all authors should have made substantial contributions to all of the following: (1) the conception and design of the study, the acquisition of data, or the analysis and interpretation of data (ie. at least one of sections 1-4 below); (2) drafting the article or critically revising its important intellectual content; (3) final approval of the version submitted. Currently, it seems author X only contributed to writing and revising the paper. Please correct your Author Contribution Statement to follow the guidelines above, using only Heliyon's standard wording as provided:

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