Outline Korespondensi “Results in Engineering”

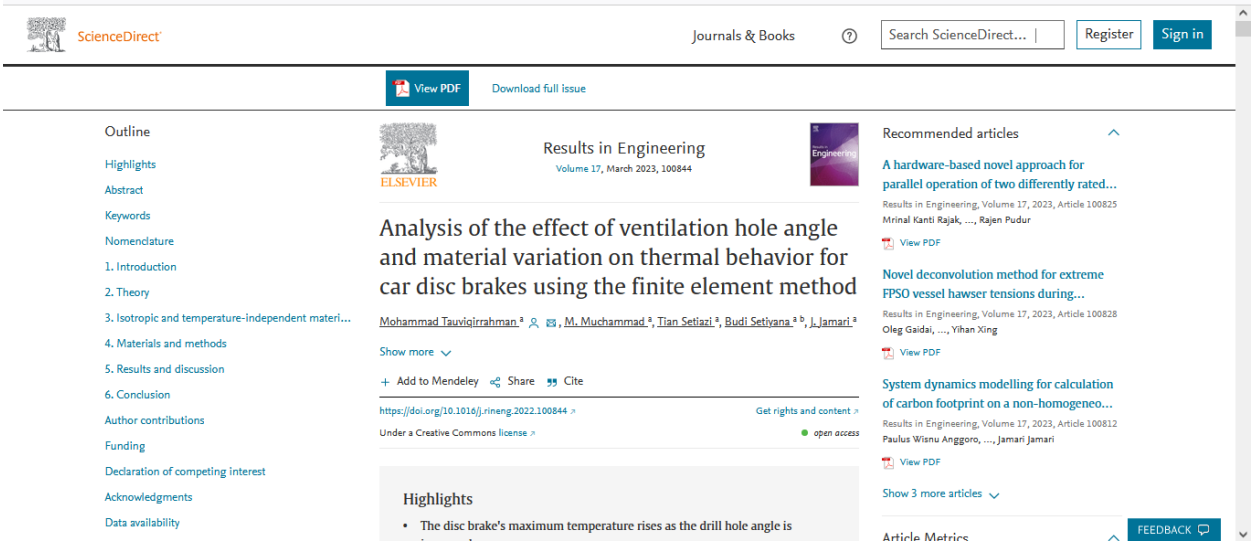
1. Submission – Selasa, 4 Oktober 2022

2. Under review – Selasa, 25 Oktober 2022

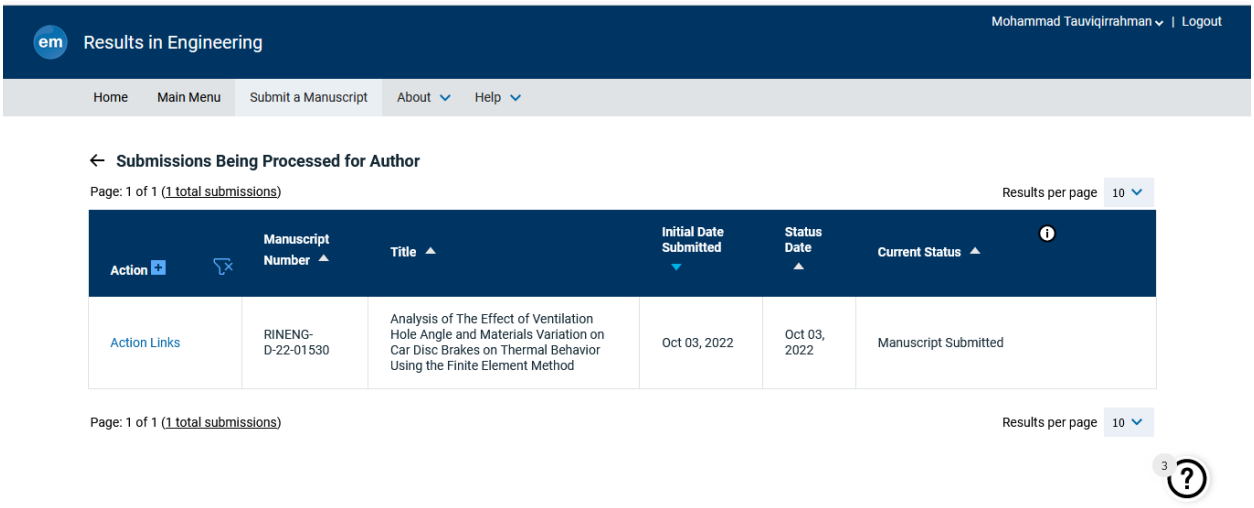
3. Major revision – Senin, 14 November 2022

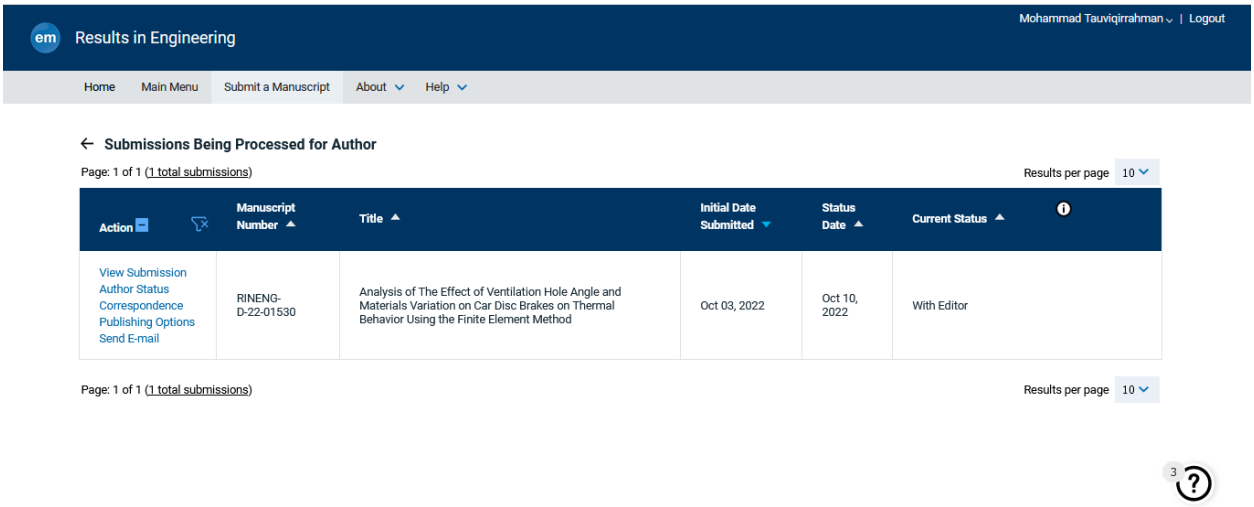
4. Submission Confirmation for revised manuscript - Senin, 5 Desember 2022

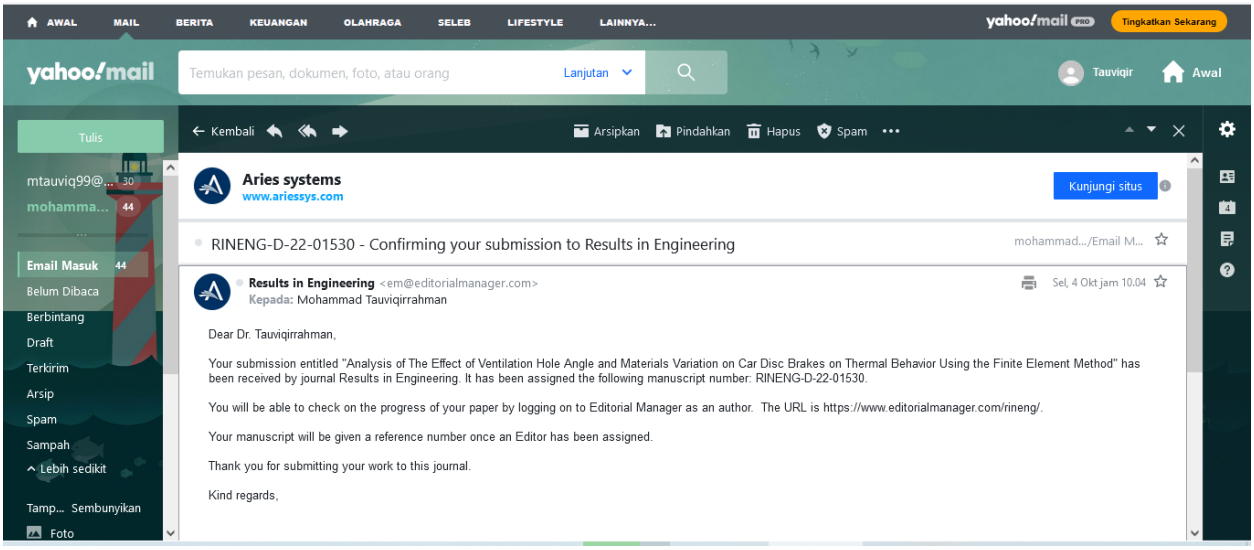
5. Accepted – Selasa, 13 Desember 2022



1. Submission – Selasa, 4 Oktober 2022



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Kepada: Mohammad Tauviqirrahman
Sel, 4 Okt jam 10.04
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Thank you for submitting your work to this journal.
Kind regards,

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Results in Engineering <em@editorialmanager.com>
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Sel, 4 Okt jam 10.04

Dear Dr. Tauviqirrahman,

Your submission entitled "Analysis of The Effect of Ventilation Hole Angle and Materials Variation on Car Disc Brakes on Thermal Behavior Using the Finite Element Method" has been received by journal Results in Engineering. It has been assigned the following manuscript number: RINENG-D-22-01530.

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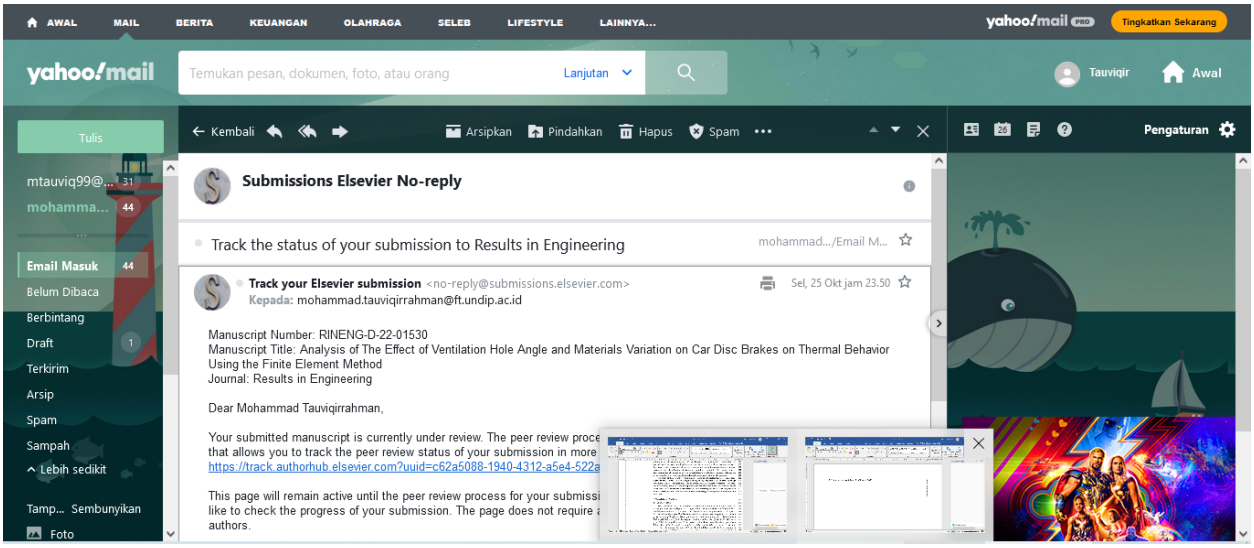
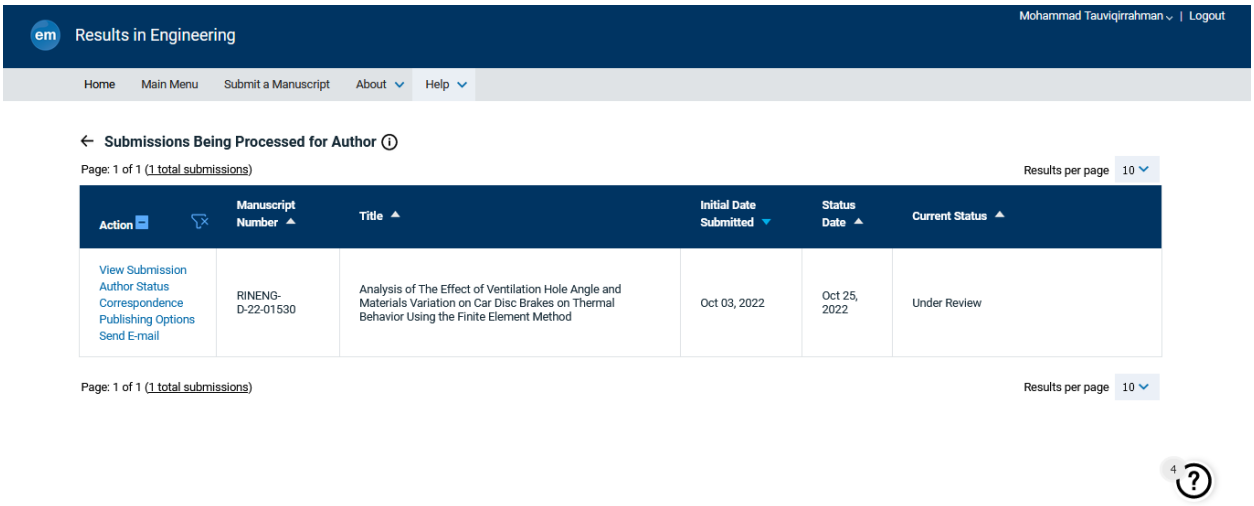
2. Under review – Selasa, 25 Oktober 2022





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Manuscript Number: RINENG-D-22-01530
Manuscript Title: Analysis of The Effect of Ventilation Hole Angle and Materials Variation on Car Disc Brakes on Thermal Behavior Using the Finite Element Method
Journal: Results in Engineering

Dear Mohammad Tauviqirrahman,

Your submitted manuscript is currently under review. The peer review process can take a while, so we are trying out a new service that allows you to track the peer review status of your submission in more detail. You can access the service here:
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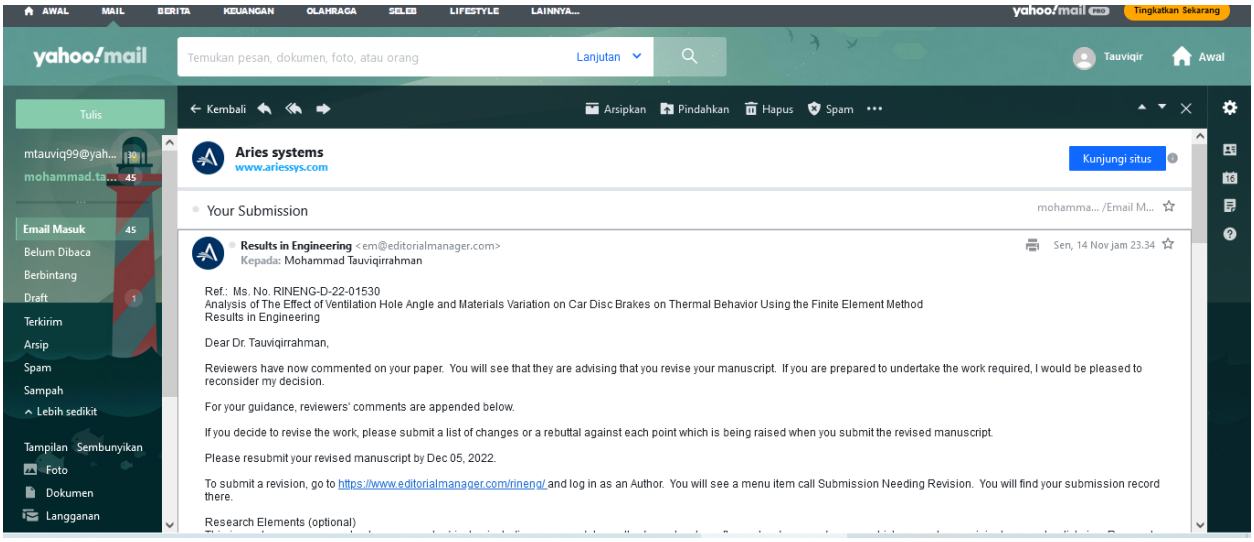
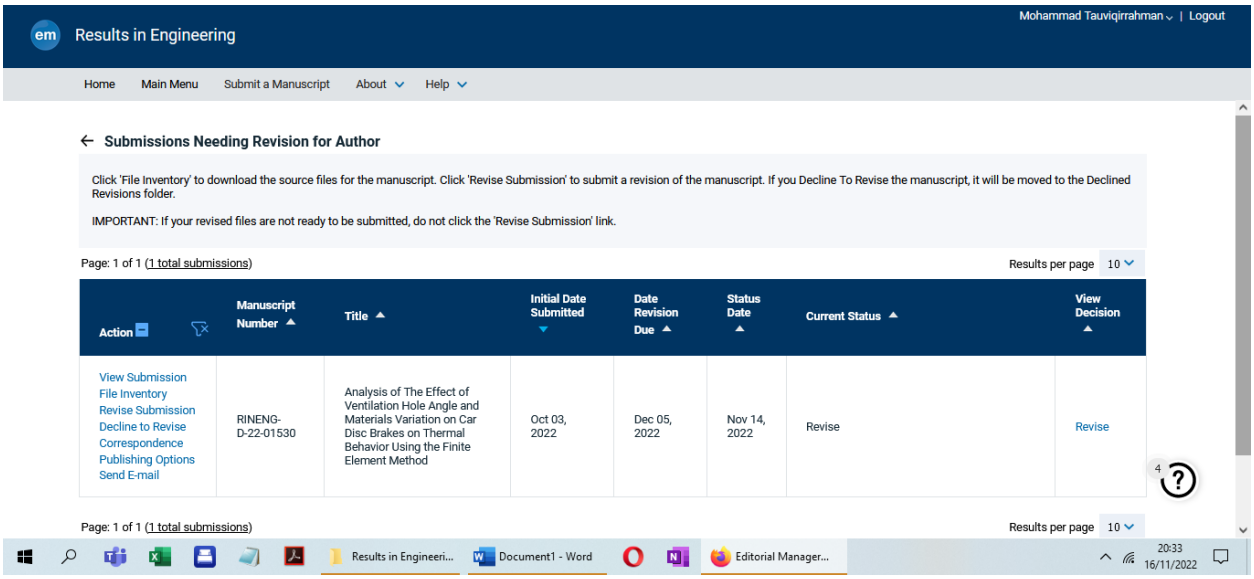
3. Major revision – Senin, 14 November 2022





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Ref.: Ms. No. RINENG-D-22-01530
Analysis of The Effect of Ventilation Hole Angle and Materials Variation on Car Disc Brakes on Thermal Behavior Using the Finite Element Method
Results in Engineering

Dear Dr. Tauviqirrahman,

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 reconsider my decision.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript.

Please resubmit your revised manuscript by Dec 05, 2022.

To submit a revision, go to https://www.editorialmanager.com/rineng/ and log in as an Author. You will see a menu item call Submission Needing Revision. You will find your submission record there.

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Yours sincerely

Ezio Mancaruso, Ph.D
Editor
Results in Engineering

Comments from the Editors and Reviewers:

Your article would appear to be of interest to a wide engineering research community and in order to promote its visibility even more, may we recommend that you view the past published articles in Results in Engineering and if you find any relevant publications, CITE the article from this Journal.

Reviewer 1: The mention article its interesting, but needs improvements to be considered as publication in the journal. My comments are listed as follow:
+ Please describe what the problem is and then explain. The results. The abstract should answer the questions: What problem did you study and why is it important? What methods did you use? What were your main results? And what did you conclude from your results? Please make your abstract with specific and quantitative results to further enrich the content of the article. Please indicate each of these questions in the abstract separately when you are replying to this comment.
+ Please chek this reference: https://doi.org/10.3390/fluids6040160
+ Last paragraph of Introduction should explicitly explain the gap of the studies reviewed above and the contribution of this manuscript. It is not clear what you mean by "different geometries" in this paragraph. What is the gap? what is the contribution? These geometries have not been analyzed?
+ If the objective of this manuscript is thermofluids related, is it necessary to mention some of the materials properties of gray cast iron (i.e. hardness, shear strength) in the manuscript?
+ Did you assume the compressible fluid in your Navier-Stokes equation? If yes, please explain what is the reason? if not, please modify all the equations based on the assumptions made to solve these equations.
+ Please explain what turbulent model you used to solve these equations, and why did you chose t this model.
+ The authors should validate their results with another study. How one can trust on these data?
+ There might be other reasons for different performance of disc brakes studied here.
+ How the proposed disc brake design was established? Any reference?
+ What about the mesh and time independence? How the results are adequate? Please clarify what are the selected grid number and time step in this study.
+ Please clarify whether the simulation model (i.e. temperature, air speed, etc.) was validated with the data from the experiment or literature.

Reviewer 2: The present manuscript investigates the effects of geometric and material variables on the thermal performance of automobile disc brakes using transient analysis in ANSYS. The article is well-written, and the matter is important. The idea is precisely presented, and the conclusions are proven. I have just a few minor remarks, mainly on numerical modeling.

1- Based on Table 3, the number of elements used is 1,881,512, however, the mesh independency result (figure 7) shows the model can be converged by approximately 50,000 elements with 4.5 mm size. Please clarify this point.

2- Tetrahedral elements are used for the whole of the meshing. It is appropriate to show that:
a) results are independent of element shapes (such as a prism, pyramid, and arbitrary shapes).
or
b) show that using Tetrahedral elements is an efficient solution for the convergence of the current model.
The authors can pick up one of the two proposed options above to enrich the numerical part of the study.

3- In section 3.4 Grid Independency Test, the first paragraph, it seems that the "error" is repeated twice.

4- In the Nomenclature section: The unit should be corrected, Kg → kg

Reviewer 3: The paper "Analysis of The Effect of Ventilation Hole Angle and Materials Variation on Car Disc Brakes on Thermal Behavior Using the Finite Element Method" analyze through numerical investigation the thermal behavior of a car disc brake with different ventilation angles and material.
The topic is interesting and the results are clearly presented.
However, the authors should better point out in the introduction and in the conclusion section the novelty of their research with respect to the existing literature.
Please, check the numbering of the paragraphs, 4.4 is repeated twice.

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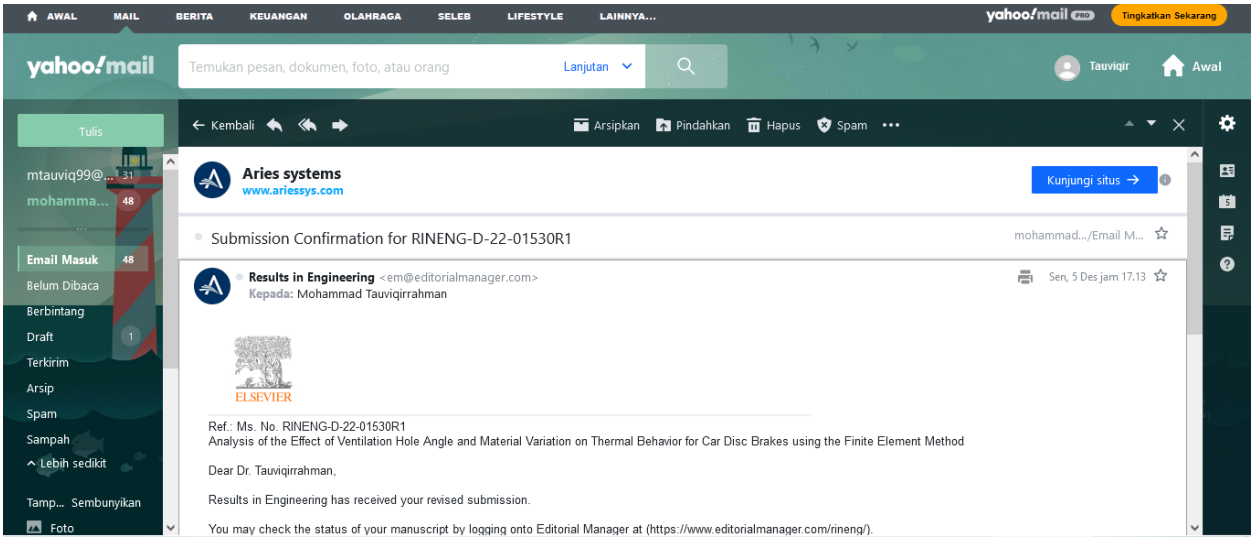
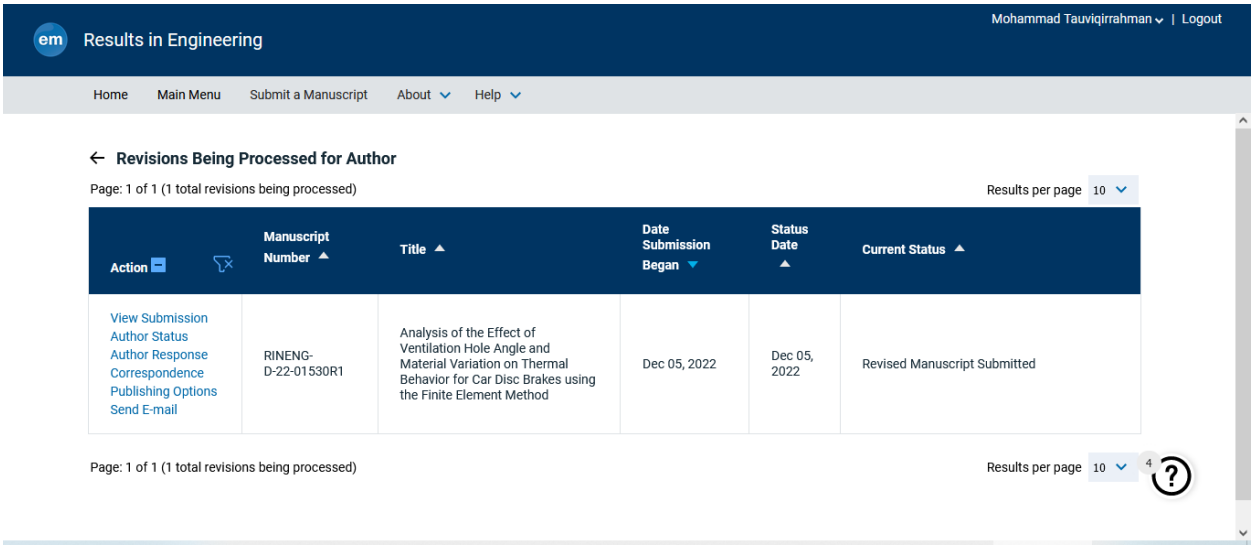
4. Submission Confirmation for revised manuscript RINENG-D-22-01530R1 - Senin, 5 Desember 2022





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Ref.: Ms. No. RINENG-D-22-01530R1
Analysis of the Effect of Ventilation Hole Angle and Material Variation on Thermal Behavior for Car Disc Brakes using the Finite Element Method

Dear Dr. Tauviqirrahman,

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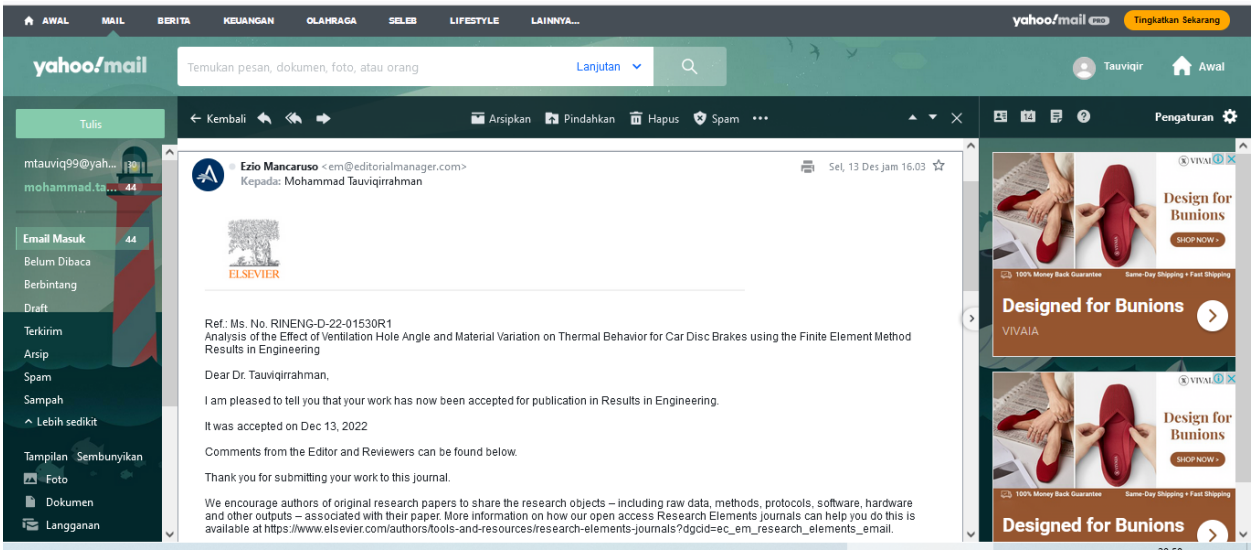


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Analysis of the Effect of Ventilation Hole Angle and Material Variation on Thermal Behavior for Car Disc Brakes using the Finite Element Method
Results in Engineering

Dear Dr. Tauviqirrahman,

I am pleased to tell you that your work has now been accepted for publication in Results in Engineering.

It was accepted on Dec 13, 2022

Comments from the Editor and Reviewers can be found below.

Thank you for submitting your work to this journal.

We encourage authors of original research papers to share the research objects – including raw data, methods, protocols, software, hardware and other outputs – associated with their paper. More information on how our open access Research Elements journals can help you do this is available at https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec_em_research_elements_email.

With kind regards

Ezio Mancaruso, Ph.D
Editor

Results in Engineering

Comments from the Editors and Reviewers:

Reviewer 1: Thank you for the way you have answered all my queries. It is a major improvement. The current version is acceptable for publication.

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