

[CFD Lett.] Submission Acknowledgement External Inbox x



Nor Azwadi Che Sidik <azwadi@akademiabaru.com>

to me ▾

Amrizal Nalis:

Thank you for submitting the manuscript, "Effects of Fin Geometry and Reynolds Number on Heat Transfer Enhancement of Flat-Plate Thermal Collector: A Numerical Analysis" 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/CFD_Letters/authorDashboard/submission/1014

Username: amrizal

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

Nor Azwadi **Che** Sidik

[CFD Letters](#)

1014 / **Nalis et al.** / Effects of Fin Height, Fin Thickness and Reynolds Number on Heat Transfer Enhancement of Flat-Plate Thermal Col

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Round 1

Round 1 Status

Submission accepted.

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[CFD Lett.] Editor Decision	2022-10-05 11:29 AM
[CFD Lett.] Editor Decision	2022-11-08 08:18 AM

Reviewer's Attachments

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Revisions

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[CFD Lett.] Editor Decision

2022-10-05 11:29 AM

Amrizal Nalis:

We have reached a decision regarding your submission to CFD Letters, "Effects of Fin Geometry and Reynolds Number on Heat Transfer Enhancement of Flat-Plate Thermal Collector: A Numerical Analysis".

Our decision is: Revisions Required

Please submit the revised article by 5 Nov 2022

Editorial Comments:

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Reviewers' Comments:

Reviewer H:

This paper investigates the effects of fin thickness, fin height, and Reynolds number on the thermal performance of flat-plate thermal collectors by numerical simulation. The results show that increasing fin height/thickness and Reynolds number reduces the surface temperature of the flat-plate surface and increases the heat transfer coefficient.

1. What is the basis for determining the optimal mesh number ($1.284.500 \times 10^6$)?
2. The text in Fig. 2 is too small.
3. In section 2.1, the expression "better heat capacity" is inaccurate. The author can directly state the material.
4. What does the mesh structure of the fluid domain look like?
5. The author attributed the decrease in surface temperature caused by the increase in fin thickness to the increase in fin volume. However, the increase in fin thickness will also lead to a change in air flow field characteristics. Should this be considered?
6. The legend in Fig.6a should be "Temperature." The temperature unit is incorrectly written.
7. The legend ranges of the four different fin thicknesses in Fig. 6 are not the same, so the comparison in Fig. 6 is inaccurate.
8. Page 23: what is the heat capacity effect?
9. The increase of the Reynolds number will inevitably lead to the heat transfer coefficient increase. When the Reynolds number equals 3000 and 4500, how much will the heat transfer coefficient increase?
10. The description of "fin geometry" in the paper title and body should be specific to fin height and width.
11. In chapter 3.2, the author thinks that the higher the Reynolds number, the sharper the changing trend of the convective heat transfer coefficient is, but there is little difference between $Re = 4500$ and 6000 . It should be explained.

Recommendation: Revisions Required

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Nor Azwadi <azwadi@akademiabaru.com>
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Amrizal Nalis:

We have reached a decision regarding your submission to CFD Letters, "Effects of Fin Geometry and Reynolds Number on Heat Transfer Enhancement of Flat-Plate

Our decision is to: Accept Submission

Please make payment of Article Processing Charge of USD400 (International Corresponding Author) or RM1500 (Malaysian Corresponding Author).
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Thank you

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Editor-in-chief, CFD Letters