

Review of: "Conceptual Differentiation of Heat: The Entropic Promise of a Post-Pyrocene World"

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Potential competing interests: No potential competing interests to declare.

This study is interesting and has entire new information in the existing literature. Some observations are listed below. I can recommend its publication, but before publication, I suggest the following major revisions.

- 1. What is the basic advantage of this study?
- 2. The application of the proposed problem and main fallout must be highlighted in the manuscript.
- 3. The authors are advised to look into the entire manuscript in terms of grammar and spelling mistakes.
- 4. The validation of the numerical results is absent in the manuscript. Add the comparison of the results with previously published. Moreover, it should be highlighted in the abstract.
- 5. Use the same font size in the entire document. There is a difference between the abstract and the rest of the document in font and style of font.
- 6. Statement of the problem is weak; authors should revise it.
- 7. Please first write the real-time applications of all the characteristics, then write the literature review.
- 8. Add the nomenclature if required.
- 9. The literature review is insufficient; it can be richer by including the following relevant studies.

https://doi.org/10.1016/j.seta.2022.102606, https://doi.org/10.3390/pr10061221,

https://doi.org/10.3390/magnetochemistry8060061, https://doi.org/10.1016/j.anucene.2022.109218

,https://doi.org/10.1080/17455030.2022.2075957, https://doi.org/10.3390/pr10050906,

https://doi.org/10.3390/pr10040776, https://doi.org/10.3390/sym14040779,

https://doi.org/10.1016/j.csite.2021.101640), https://doi.org/10.1038/s41598-021-92409-3,

https://doi.org/10.1002/htj.22232 https://doi.org/10.1016/j.aej.2021.01.038,

https://doi.org/10.1063/5.0018674,DOI:10.2298/TSCI190518137A),

https://doi.org/10.32604/cmc.2020.011404, https://doi.org/10.3390/molecules25112694

 Describe in the text each term, symbol, and parameter appearing in the flow model in dimensional and nondimensional models.



- 2. More computational details are required (i.e., methodology, convergence, validation, type of distribution of mesh, the utilized discretization scheme).
- 3. The range of defined parameters needs to be added.
- 4. The authors should do a better job of commenting on the results. A reasonable physical explanation should be provided for the observed trends, not only report what is graphically seen in the figures. More physical insight of the Discussion section is needed.
- 5. Write the conclusion more precisely. It should highlight novel findings in the current study. The current conclusion is very poorly written.