

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.

The paper has potential to be published in this journal after following major revisions.

1. What are the basic gaps that are filled in this research study?
2. In the introduction, references are few in number; increase it by adding more relevant studies.
3. Is it an original or relevant topic to the field, whose gaps remain to be filled?
4. How is this study compared to the previously published? Which issues are addressed in this one that are not in the previous?
5. Is the methodology used here new, developed, or extended from the previous one? If it is improved, then what are the basic improvements that have been carried out?
6. The conclusion is too long; reduce its size by highlighting the main outcomes of the study. Improve it.
7. Try to add some more relevant references to enrich the study literature for clear justification:
<https://doi.org/10.1016/j.csite.2024.104392>, <https://doi.org/10.1080/02286203.2024.2330993>,
<https://doi.org/10.1016/j.psep.2024.01.022>, <https://doi.org/10.1016/j.geothermics.2024.102916>,
<https://doi.org/10.1016/j.csite.2023.103883>
8. The graphs presented here are not properly defined in a physical point of view. Authors are advised to explain the graphs with physical reasoning about the parameters and properties in which the variations are being observed.
9. What is the main question addressed by the research?
10. Do you consider the topic original or relevant in the field? Does it address a specific gap in the field?
11. What does it add to the subject area compared with other published material?
12. What specific improvements should the authors consider regarding the methodology? What further controls should be considered?
13. Are the conclusions consistent with the evidence and arguments presented and do they address the main question posed? Improve it.
14. What ranges of all parameters should be given? In the caption, mention all of the involved parameter values for which graphs are plotted; it will help the reader compare the parametric effects for the considered values of the parameters.
15. Write the future works in this study.

