

# Review of: "Comparison of extended irreversible thermodynamics and nonequilibrium statistical operator method with thermodynamics based on a distribution containing the first-passage time"

THIPPAAIAH Maranna

Potential competing interests: No potential competing interests to declare.

Article Reviewed:

Title: Comparison of extended irreversible thermodynamics and nonequilibrium statistical operator method with thermodynamics based on a distribution containing the first-passage time.

Journal: Qeios.

Decision: Major revision.

The non-equilibrium thermodynamics a distribution-based containing an additional thermodynamic first-passage time parameter, nonequilibrium statistical operator method and extended irreversible thermodynamics with flows as an additional thermodynamic parameter are studied by authors and the data are well organized by the authors. I, therefore, recommend this paper be published in this journal after the authors address the following comments necessarily without fail.

Reviewer Comments:

1. English language presentation is very weak. The sentences are not clearly written.
2. Motivation for the work should be clearly stated. It is not clear which gap is exactly filled by current research.
3. The introduction can cover recent and relevant works and need more references.

<https://doi.org/10.3390/app12115466>. DOI: 10.1615/JPorMedia.2023046723.

<https://doi.org/10.1038/s41598-023-39153-y>. <https://doi.org/10.1002/zamm.202300140>.

<https://doi.org/10.1016/j.rineng.2023.101227>.

1. It is recommended to add some suggestions for future works in this area to improve the conclusion.
2. The authors should try to give advantages of using their method compared to others.
3. Authors should provide more information about your solution method.
4. Where is validation with experimental studies?



Recommendation: I agree to publish this article in this journal after revision.