

Review of: "Tsallis Entropy applied to microfluidic channels analysis"

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Potential competing interests: No potential competing interests to declare.

Manuscript: Tsallis Entropy applied to microfluidic channels analysis

This work investigated the possibility to describe the fluid flow in a microchannel from a thermodynamic point of view, exploring the possibility to evaluate the presence of obstacles and their influence on the fluid. Tsallis entropy concept was employed. Paper is clearly written. However, I have a few background observations since this paper can benefit from revision if following corrections are carried out before publication.

1. What is the benefit or novelty of this manuscript in future research explain.
2. The abstract is wordy and not informative. The structure of the abstract needs revision. Revise the abstract to provide:
 - The significance of the study
 - The aim of the study
 - The research methodology
 - The major conclusion of the study
1. Highlight the novelty of the proposed model.
2. Proper numbering of all equations are required.
3. The captions of figures are Italic, remove the Italic font.
4. Why did authors have used **Tsallis Entropy**?
5. Bibliography is too less for this article authors need to enhance the studies with minimum 15-20 references. Modified literature review with some recent literature.
 - <https://doi.org/10.1002/num.22920>;
 - <https://doi.org/10.1080/17455030.2023.2196348>;
 - <https://doi.org/10.1016/j.surfin.2021.100926>
 - <https://doi.org/10.1016/j.icheatmasstransfer.2020.105051>
 - <https://doi.org/10.1002/num.22920>; DOI: 10.1088/1402-4896/abd903

I recommended the acceptance of the manuscript after revision.

