

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

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**Potential competing interests:** No potential competing interests to declare.

This work investigated the possibility of describing the fluid flow in a microchannel from a thermodynamic point of view, exploring the possibility of evaluating the presence of obstacles and their influence on the fluid. This work has potential and my comments are as follows:

1. Abstract should contain some quantitative results.
2. The novelty should be clear and additionally highlighted, together with the objectives of present research, in the last paragraph of the Introduction. Objectives should be clearly defined. The paper should make a compelling case for why this study is useful along with a clear statement of its novelty or originality by providing relevant information and providing answers to basic questions such as: What is already known in the open literature? What is missing (i.e., research gaps)? What needs to be done, why and how?
3. Please mention some applications upon which this study is based. This is a very important issue that needs to be addressed properly.
4. Could you please develop the conclusion section focusing on how the developed model will be adapted to the mentioned application areas and how the results will be used for the benefit of the researchers interested in the subject. In which application is the exact physical response of the solved problem best encountered?
5. Add some more very recent references on microchannel flows. This will perhaps provide some direction for other researchers who may wish to extend their works.