

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

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Potential competing interests: No potential competing interests to declare.

The manuscript introduces a novel method for analysing microfluidic channel fluid flow by employing Tsallis entropy. This novel application of non-extensive statistical methods advances knowledge of microscale fluid dynamics. The study demonstrates proficiency in both microfluidic analysis and non-extensive statistical mechanics through a well-justified integration of the two. The methodological transparency includes data collection, analysis, and interpretation. The results provide valuable insights into the fluid dynamics of microfluidic channels, accompanied by a well-structured discussion in the context of the existing literature. The manuscript acknowledges potential impacts on device design, fluid manipulation, and biomedicine, effectively conveying practical relevance and future research opportunities.

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