

Decision on your submission to Chinese Journal of Mechanical Engineering -CHME-D-20-00560 - [EMID:11e6664c47b26970]

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on behalf of

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Tue 27/04/2021 14:18

To:Khairul Fikri b Tamrin <tkfikri@unimas.my>

CHME-D-20-00560

Enhanced fluid mixing using reversed multi-staged Tesla micromixer

William L. N. Buglie, Master of Engineering; Khairul Tamrin, Ph.D; Nadeem Ahmed Sheikh, Ph.D; Mohd Fairus Mohd Yasin, Ph.D

Chinese Journal of Mechanical Engineering

Dear Dr. Tamrin,

Thank you for considering Chinese Journal of Mechanical Engineering.

Peer review of your manuscript is now complete and, in the light of the reports, and my own assessment as Editor, I regret to inform you that your manuscript cannot be accepted for publication in Chinese Journal of Mechanical Engineering.

Please find the reviewers' reports at the end of this email. Please also take a moment to check our website at <https://www.editorialmanager.com/chme/> for any additional comments that were saved as attachments.

I wish you every success with your research and hope that you will consider us again in the future.

Best wishes,

Song Tianhu

Chinese Journal of Mechanical Engineering

<https://cjme.springeropen.com/>

Editors' comments (if any):

Reviewer #1: The paper "Enhanced fluid mixing using reversed multi-staged Tesla micromixer" by W L N Buglie et al. has analysed the fluid mixing performance of micro Tesla valve. The influence of Re and valve stages on the mixing has been analysed. The work is interesting and also has some elements of originality. However some studies aren't shown clearly so I would like to put some requests to the authors:

1.The manuscript is not well written. The English quality is poor in places which does not help me understand what the author wants to present. Please check the English spelling and grammar.

2.P5L31 The authors should give the full words of "RGB" when it was quoted firstly. The same question for "PMMA" in P7L46.

- 3.The number in figure legend and manuscript was mismatched. Please check it carefully and modified.
 - 4.The calculation equation of Reynolds number should be supplied in the manuscript.
 - 5.Followed above question. The Reynolds number from 5 to 140 were used in the experiments. Are they exact values or approximate values? From my opinion, these numbers are approximate values. The authors should make some explanation or approximate standards about these values.
 - 6.What's the sampling frequency of the recorded cough profiles for strong and weak cough? The author should supply the information about the collection of cough profile.
 - 7.The Reynolds number and liquid flow rate are the same influence factor. The Reynolds number is only influenced by the flow rate in this study. I recommend that the author use Re for the experimental results analysis and discussion.
- P19L1 The authors mentioned some interesting findings about the sudden increment when the Re is higher than 40. How did it happen? The authors should make some discussions about these interesting findings.

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