Prof. João B. P. Soares  
Editor-in-Chief  
Canadian Journal of Chemical Engineering

01.10.2024

Dear Professor Soares,

Subject: Submission of the manuscript entitled "*Mathematical modelling of essential oil supercritical carbon dioxide extraction from chamomile flowers*"

I am writing to submit our manuscript entitled " Mathematical modelling of essential oil supercritical carbon dioxide extraction from chamomile flowers " for consideration for publication in the Canadian Journal of Chemical Engineering. This manuscript has not been published and is not being considered for publication elsewhere.

The study delves into the supercritical fluid extraction of chamomile flower essential oil, employing a comprehensive modelling approach backed by experimental data obtained under varying operating conditions. Chamomile is a medicinal herb widely cultivated in southern and eastern Europe, including countries such as Germany, Hungary, France, and Russia. It can be found outside Europe, for instance, in Brazil. Chamomile has been used for its medicinal benefits, serving as an anti-inflammatory, antioxidant, mild astringent, and healing remedy. Aqueous extract of chamomile is widely used to calm nerves and mitigate anxiety, hysteria, nightmares, insomnia and other sleep-related conditions.

This manuscript will begin with a series of articles utilizing the results presented. We believe this work aligns with the main scope of the Canadian Journal of Chemical Engineering.

We appreciate your consideration of our work for publication and await your valuable feedback. Please do not hesitate to contact us for further information or clarification regarding our submission.

Thank you for considering our manuscript.

Sincerely,

Oliwer Sliczniuk Pekka Oinas



Doctoral researcher Professor

School of Chemical Engineering

Aalto University

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