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| Book Name: | [**Food Science and Agriculture: Research Highlights**](https://www.bookpi.org/bookstore/product/food-science-and-agriculture-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4487** |
| Title of the Manuscript:  | **MEMBRANE FOULING DYNAMICS IN THE CLARIFICATION OF POMEGRANATE JUICE USING EGG ALBUMIN PRETREATMENT: A STUDY ON HERMIA’S EMPIRICAL MODELS** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript contributes valuable insights into the membrane processing of pomegranate juice, particularly in understanding fouling mechanisms using Hermia’s analogy. The findings provide practical implications for optimizing filtration processes and improving juice quality. The study’s focus on different pore sizes and the validation of fouling models enhances its relevance for researchers and industry professionals working on membrane-based food processing. These results can aid in developing more efficient and sustainable juice filtration techniques. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Abstarct is well written.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **The manuscript appears scientifically sound, with appropriate methodology and analysis. However, ensuring that all equations, models, and assumptions are well-explained will strengthen its credibility.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references seem adequate, but it is recommended to include more recent studies related to membrane fouling mechanisms in fruit juice filtration.Production data such as cultivation area, yield, and productivity figures (e.g., "Maharashtra has 147.9 thousand ha area with an annual production of 1789 thousand MT") require references. If the data is from a government or institutional report, cite it appropriately. If taken from a research paper, ensure proper citation in the text and reference list. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is generally suitable for scholarly communication, but minor grammatical refinements would enhance readability. Some sentences could be restructured for better clarity and flow. |  |
| Optional/General comments | * Ensure subject-verb agreement and proper spacing like
1. “This juice have been used…”→ “This juice has been used…”
2. “Pomegranate, mainly produced in the middle east,have a number of nutritional…” → “Pomegranate, mainly produced in the Middle East, has a number of nutritional…”
3. “Potential sourceofparticles are pectin, protein, phenolic compounds etc.” → “Potential sources of particles include pectin, proteins, and phenolic compounds.”
4. “The pomegranate juice of was used to determine…” → Should be “The pomegranate juice was used to determine…”
* The sentence “This concentration was subsequently used for pretreatment of both pineapple and pomegranate juices in all the experiments.” appears out of place in the context of the pomegranate juice study.
* Ensure figures/tables are properly placed and discussed within the text.
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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Ravina Parmar** |
| Department, University & Country | **Anand Agricultural University, India** |