|  |
| --- |
|  |
| Book Name: | [**Physical Science: New Insights and Developments**](https://bookstore.bookpi.org/product/physical-science-new-insights-and-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5992** |
| Title of the Manuscript:  | **CONVECTIONAL ONSET IN FERROFLUID LAYER THROUGH A DARCY-BRINKMAN POROUS MEDIUM** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Journal of Basic and Applied Research in Biomedicine, 2(3): 246-254, 2016.**

**Available:** [**https://jbarbiomed.com/home/article/view/84**](https://jbarbiomed.com/home/article/view/84)

|  |
| --- |
| 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 chapter will discusses on the analysis of a convective instability of an incompressible ferrofluid layer through a porous medium when the fluid layer is subjected to uniform magnetic field and an external heat source. Darcy-Brinkman model is employed for porous medium and perturbation technique along with normal mode method is employed to discuss the effect of various embedded parameters responsible for the stability/instability of the concerned system. |  |
| **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. | **Yes****Write major findings from the study in the abstract.**  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **No, the current references are insufficient and largely outdated. Please revise the manuscript by incorporating more recent and relevant studies in this field.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | 1. Try to include some figures for the results to have better understanding of the study (if possible).
2. Update refrences with more recent and relevant studies in this field.
3. Application of your work.
 |  |

|  |
| --- |
| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)*No |  |

**Reviewer details:**

**Tanvi Singla, India**