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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_** **5062** |
| Title of the Manuscript: | **CFD MODELING OF HEAT TRANSFER ENHANCEMENT USING NANOFLUID** |
| 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.** | **The study explores the enhancement of heat transfer using nanofluids, a crucial area in thermal management and industrial applications. By employing the finite volume numerical method, the study provides valuable insights into the performance of a circular tubed heat exchanger when using Al₂O₃ nanofluids at different volume fractions. The findings contribute to the optimization of heat exchanger designs, offering potential advancements in energy efficiency and sustainability.** Some terms in the fulltext article should be clarify or need edition for example1. Added 5-6 keywords withno abbrieviation. 2. Identify the parametrers in the equations  3. Add more related litretures, I will selected for you in the last |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **I suggest to change the title of paper to be more specific**  ‘‘Computational Analysis of Heat Transfer Enhancement in a Circular Tubed Heat Exchanger Using Al₂O₃ Nanofluids" |  |
| 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** |  |
| **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.**  **-** | **The reference format are not proper and needs rearrange and revision, kindly add those latest reference for your article.** Firas Qader, Adnan Hussein, Suad Danook, Barhm Mohamad, Omar Khaleel, Enhancement of Double-Pipe Heat Exchanger Effectiveness by Using Porous Media and TiO2 Water, CFD Letters, 15(4), pp.31-42, 2023. <https://doi.org/10.37934/cfdl.15.4.3142>. Amar Berkache, Salah Amroune, Ali Golbaf, Barhm Mohamad, Experimental and numerical investigations of a turbulent boundary layer under variable temperature gradients, Journal of the Serbian Society for Computational Mechanics, 16(1), pp.1-15, 2022. 10.24874/jsscm.2022.16.01.01.  Falah Zarda, Adnan Hussein, Suad Danook, Barhm Mohamad, Enhancement of thermal efficiency of nanofluid flows in a flat solar collector using CFD, Diagnostyka, 23(4), pp. 1-9, 2022. <https://doi.org/10.29354/diag/156384>. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments |  |  |

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| **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)* |  |

**Reviewer details:**

**Barhm Abdullah Mohamad, Erbil Polytechnic University, Iraq**