

Review Form 1.6

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| Journal Name: | Journal of Engineering Research and Reports |
| Manuscript Number: | Ms_JERR_85702 |
| Title of the Manuscript: | Influence of diffusion layer and other structural parameters on performance of hydrogen fuel cell |
| Type of the Article | |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljerr.com/index.php/JERR/editorial-policy>)

PART 1: Review Comments

| | 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) |
|-------------------------------------|--|---|
| Compulsory REVISION comments | <ol style="list-style-type: none"> 1) If the content of the article is only a simulation, it is better if the title states a simulation, for example: Simulation of influence of diffusion layer and other structural parameters on the performance of hydrogen fuel cell, 2) Explain about "The PEMFC module of Fluent", why was this module chosen, what is its relevance? 3) Fill in Table 1. Structural parameters and Table 3. Boundary conditions and physical parameters give their values, 4) Give an explanation of the different statements for gas diffusion layer (GDL) are 0.18mm, 0.21mm and 0.24mm and in some other parts of the text it is stated 0.21mm, 0.24mm and 0.27mm, is that true? 5) In Figure 9 and Figure 10 it is stated that the catalytic layer (CL) thickness of 0.012mm, 0.015mm and 0.018mm, while also stated with other values with 0.018 mm, 0.015 mm and 0.012 mm from top to bottom, is this true? 6) There is a double library for [4] Tan Zetao. Study on H₂O Transport Mechanism in Gas Diffusion Layer of Proton Exchange Membrane Fuel Cell [D]. Beijing Jiaotong University, 2015 and [4] Huang Hao. Durability of membrane electrodes in proton exchange membrane fuel cells [D]. East China University of Technology University, 2018, which one to use? | |
| Minor REVISION comments | <ol style="list-style-type: none"> 7) In Figure 4, Figure 5, and Figure 6, what is the unit of Curve Length in meters or mm? 8) In Figure 7, put arrows on the gas diffusion layer and give an explanation related to it, so that readers can easily understand it, 9) In Figure 8, put arrows on the diffusion layer and proton exchange membrane and then give an explanation related to them, so that readers can easily understand them, 10) In Figure 13, put an arrow on CL and give an explanation related to it, so that readers can easily understand it, | |
| Optional/General comments | <ol style="list-style-type: none"> 11) Validate the simulation results if possible, show evidence of how valid the simulation results are, 12) Use the abbreviations that were created the first time, such as GDL, CL, HFC in the text to be applied in the next text, so that the article sentence can be effective. 13) The font size in the image captions is too small, it is better to make it close to the font size in the text so that it can be read better. | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---|
| Name: | Syamsul Hadi |
| Department, University & Country | State Polytechnic of Malang, Indonesia |