

# Review of: "Investigation of the Dielectric Behaviour of Propylene Glycol (100) Dispersed With Graphene Nano Powder to Determine the Optimal Conditions Using Response Surface Methodology"

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Potential competing interests: No potential competing interests to declare.

As this article discusses the electrical properties of nanofluids with good results, it has great potential for publication owing to the importance of the topic addressed by the authors. I believe that it will be of interest to peers in the field. It is my intention to leave some constructive recommendations so that authors may make changes to the article:

- 1 - The abstract does not appear to be attractive enough to attract the attention of the reader or researcher who is interested in the subject matter. Please describe/insert in the abstract something about what the purpose and/or application of the composite studied will be in everyday life, in science, and/or in people's lives. To put it another way, what will the material contribute to society?
- 2 - In the article, the authors could have explored some scientific concepts in more depth. Describe the concept of RSM, its importance, and its relation to experimentally measured dielectric strength and dielectric behavior.
- 3 - There is little emphasis placed on rupture tension information.  
  
What method was used to determine the rupture tension?
- 4 - Could you say, or insert, in this chapter what the evaluation criteria were for choosing the best possible model? Since the justification is very far away in the text, making it difficult to understand the choice.
- 5 - Please provide more information about the importance of having a low or high CV value in Table 1 and Figure 3. By including more references on the topic, this information can enrich the article.
- 6 - Please provide more information in this section of the article regarding why 2FI was superior to the others in order to facilitate the reader's understanding.
- 7 - Based on your findings, which application would best suit the material obtained?
- 8 - A comparative analysis of your results with other works in the literature will contribute to the enrichment of the discussion.
- 9 - To conclude, ensure that all errors and typos have been corrected throughout the manuscript.

