

Review of: "A memory dependent analysis on permeation of non-Gaussian laser pulse through human skin"

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Potential competing interests: No potential competing interests to declare.

A memory dependent analysis on permeation of non-Gaussian laser pulse through human skin

This paper reads very comfortable. I can easily understand the idea and techniques. The motivation is clear to me. The results are comprehensive. In general, the article is good and is interesting, but it requires a major revision. There are some recommendations:

Comments

1. The title should be modified to be stronger in the research field of this paper.
2. The current abstract should be modified to provide the highlight of this study.
3. Add the list of symbols as nomenclature before the introduction section.
4. The literature survey must be enhanced. There are still many papers in the allied fields that are not cited in introduction section. It is understandable to colleagues from a broad range of scientific disciplines. For that purpose, I would like request author to add the following recent papers, which can help to enhance the introduction section:

10.1142/S1758825120500271

10.32604/cmes.2021.012218

10.1142/S1758825118501089

10.1080/10407782.2019.1608770

10.3390/app12147174

10.3390/fractalfract7010066

5. Authors should provide the references for basic equations (12) and (13) of problem description.
6. There are many research papers study the same problem which investigated in the present paper such as:

10.32388/DUU8FP

10.1140/epjp/s13360-020-00887-7

What is exactly the new point of this work?

7. Authors should explain more about the novelty of their work in introduction.
8. Epidermis and Dermis layers are clear in figure (1) but are not clear in text and need to be clarified in depth in the contribution.
9. Authors should provide the references for constants (for Epidermis, Dermis & Blood) used in the calculations of the considered problem.
10. In 'Results and Discussion' It is suggested that to provide physical explanations of all obtained results which can enrich the quality of the paper.
11. The authors need to explain that the analytical solution used in this research is one of the appropriate solutions in the context of the research problem. What are the achievements of previous studies based on a numerical basis? Also, describe what has not been achieved?
12. The conclusions should be rewritten. It must be enriched about discussion on solving problem.
13. In the conclusion section, explain applications of this paper.