

# Review of: "Investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging"

Clément Mbinack<sup>1</sup>

<sup>1</sup> Université de Yaoundé I

**Potential competing interests:** No potential competing interests to declare.

The authors had presented their work on "Investigations on input impedance and radiation pattern of a UWB antenna for microwave imaging," which is quite interesting and is of significant significance for the research community. However, some modifications are required in this manuscript before it is going to be published. So, my recommendations are as follows:

1. Coming to the introduction section, add some of the recent state-of-the-art references in it for literature review (2023, etc.).
2. Prepare a table comparing the proposed structure with the other references just before the conclusion. Explain this table, showing the advantages and disadvantages of this design compared with other designs listed in this table. Do this.
3. A study of various antenna performances (impedance bandwidth, radiation pattern, and antenna gain) should be included to highlight the developmental stages.
4. Testing (simulation perspective) of the proposed structure for UWB applications is quite interesting.
5. Similarly, add some information about testing (experimental perspective) of the proposed structure for UWB.
6. Novelty and innovation of the article is not clear. Design steps of the proposed structure along with results are missing.
7. Given that this antenna is designed for the biomedical field, why hasn't it been tested on a human phantom model to measure the specific absorption rate?