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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6070** |
| Title of the Manuscript:  | **Microwave Absorption and Shielding Mechanisms in Micro-cellular Foamed Conductive Composites** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Micro, 1(1), 86-101, 2021.**

**Available:** [**https://doi.org/10.3390/micro1010007**](https://doi.org/10.3390/micro1010007)

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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.** | This chapter explores the microwave absorption mechanisms in microcellular foamed conductive composites developed for electromagnetic interference (EMI) shielding applications. A one-dimensional (1D) multilayer electromagnetic model, replicating the structure of microcellular foam, is constructed and validated against previously obtained experimental data from a range of fabricated composite foams.The manuscript is important for the scientific community. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes, title of the artice is suitable. |  |
| 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, abstract of the article is comprehensive. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manscript is scientifically correct. Author should include related work section to improve the study. |  |
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| Is the language/English quality of the article suitable for scholarly communications? | The English quality of the article is suitable for scholarly communications. |  |
| Optional/General comments | Accept Manuscript with minor revision |  |

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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:**

**Christopher Oluwatobi Adeogun, Nigeria**