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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. |  |
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| Optional/General comments | Accept Manuscript with minor revision |  |

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| **PART 2:** | | |
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| **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**