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| Book Name: | **Plasmas Afterglows with N2 for Surface Treatments synthesis 2024** |
| Manuscript Number: | **Ms\_BPR\_3686.18** |
| Title of the Manuscript: | **N-atom Density in High Ar-N2 Gas Pressure Microwave Afterglow** |
| Type of the Article | **Book chapter** |

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| PART 1: Review Comments | | |
| Compulsory REVISION comments | Reviewer’s comment | 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. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.** | **As is well known, microwaves can be used for many other purposes, so it is always a hot topic for the scientific community in general.**  **I like the manuscript in general because microwaves use electromagnetic waves as an efficient way to generate heat for heating.**  **Despite being used in essential kitchen appliances, microwaves are still the subject of debate about their possible health impacts. According to the World Health Organization (WHO), when used correctly, there is no risk related to microwave radiation.**  **I recommend that these points be mentioned in the introduction to this manuscript.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **It 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. | **It is suitable** |  |
| **Are subsections and structure of the manuscript appropriate?** | **The order of Figures 18.2 and 18.1 needs to be corrected, and the sharpness of all the Figures in the manuscript needs to be improved.** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.** | **The order of Figures 18.2 and 18.1 needs to be corrected, and the sharpness of all the Figures in the manuscript needs to be improved.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **There are not enough references and most of them are not recent, they are over 20 years old.** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | - |  |
| Optional/Generalcomments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

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| **Reviewer Details:** | |
| Name: | **Alex De Nazare De Oliveira** |
| Department, University & Country | **Universidade Federal Do Amapá, Brazil** |