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| Book Name: | **Plasmas Afterglows with N2 for Surface Treatments synthesis 2024** |
| Manuscript Number: | **Ms\_BPR\_3686.12** |
| Title of the Manuscript: | **Density of N2 Active Species in N2 DBD Afterglows by Optical Spectroscopy at Atmospheric Gas Pressure** |
| Type of the Article | **Complete 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 minimum of 3-4 sentences may be required for this part.** | This chapter described the use of Dielectric Barrier Discharges ( DBD) to develop Cold Atmospheric Plasmas and more specifically nitrogen afterglows. This study finds its importance in plasma physics and especially find its importance in space physics, astronomy and astrophysics. The experimental setup is offordable and more precise for these types of studies. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Title need to be elobarated |  |
| 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. | Abstract of this article is not clear. Need some clearity by including few more sentences according to the title |  |
| **Are subsections and structure of the manuscript appropriate?** | Yes, Apropriate |  |
| **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 minimum of 3-4 sentences may be required for this part.** | The article is good and the presentation is acceptable. But, the graphs and images are not clear. Better to draw images using some latest and well suited softwares such as MATLAB for images. Also there is a lach of literature in the introduction part. Technical details of the instuments is not well documented. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | Refrences are insufficient. The authors has to refer more literature and the number of references should be more than atleast 20 |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | Yes, but needs refinements |  |
| Optional/General comments |  |  |

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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: | **Cuddapah Dhananjaya Rao** |
| Department, University & Country | **Navoi State University, Uzbekistan** |