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| Book Name: | **Plasmas Afterglows with N2 for Surface Treatments synthesis 2024** |
| Manuscript Number: | **Ms\_BPR\_** **3686.7** |
| Title of the Manuscript: | **Plasma Sources for a High Flux of Active Species** |
| 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 minimum of 3-4 sentences may be required for this part.** | **This manuscript is significant as it focuses on the study of plasma and the active components within the plasma medium at low pressures. It utilizes various types of noble gases, including argon, neon, and helium, alongside active gases such as nitrogen, oxygen, and hydrogen, across different pressure ranges. However, it is preferable to mention different types of gases such as sulfur hexafluoride gas SF6, which is an important gas in the plasma etching process.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title of the article 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. | **The abstract of the article is comprehensive.** |  |
| **Are subsections and structure of the manuscript appropriate?** | **The subsections and structure of the manuscript is appropriate.** |  |
| **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.** | **This manuscript is strong from both scientific and technical perspectives. It is well-written, with proper language and clear formulation, and it effectively conveys the subject matter. Thanks to the researchers' efforts, it is certainly deserving of inclusion in a book.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references were sufficient, but some of them were too old and I think they could be replaced with modern references. Such as the following references:**  **11. Poole HG, Ingold CK. Atomic hydrogen II—surface effects in the discharge tube, Proc. R. Soc. Lond. A Math. Phys. Sci. 1937;163:415-423.**  **12. Tollefson EL, Le Roy DJ. The reaction of atomic hydrogen with acetylene, J. Chem. Phys. 1948;16:1057-1062.**  **5. Kojadinovic J, Ricard A. Détermination expérimentale des atomes métastables d'argon et de néon à l'intérieur d'une cathode creuse fonctionnant en régime d'arc, J. Physique Lett. 1977;38: 9-13.**  **6. Ferreira CM, Delcroix JL. Théorie de la décharge d'arc à cathode creuse. - II. Bilan de métastables à l'intérieur de la cathode. Application à l'argon, J. Phys. France. 1975;36:1241- 1248.**  **7. Trindade A. Thesis Paris, Paris; 1970.** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | **Yes, the quality of the English of the article was adequate for good scientific communication.** |  |
| Optional/General comments | **In keywords; rare gas (He, Ne, Ar) metastable densities should be noble gas in my opinion.** |  |

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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: | **Weaam Alali** |
| Department, University & Country | **Al Baath University, Homs -Syria** |