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| Book Name: | [Current Research Progress in Physical Science](https://www.bookpi.org/bookstore/product/current-research-progress-in-physical-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4587** |
| Title of the Manuscript: | **THE ERROR IN DETERMINING THE CONCENTRATION OF PLASMA ELECTRONS WHEN USING CONDUCTIVITY SENSORS** |
| Type of the Article | **BOOK CHAPTER** |

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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.** | **The manuscript presents an in-depth analysis of errors in plasma electron concentration measurement using conductivity sensors. The methodology is well-structured, and the experimental approach effectively addresses the potential inaccuracies introduced by the insulator melt film. However, the manuscript requires improvements in several areas.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is appropriate, but a slight modification for clarity.** |  |
| 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 effectively summarizes the research but could be improved by explicitly stating the main findings and practical implications – considering rewriting.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | * **The manuscript is technically well structured but further clarification on the correction factor derivation would enhance reader comprehension.** * **Equations (5) and (6) require additional explanation regarding their practical application and experimental validation.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references are relevant and sufficiently recent. However, additional sources on alternative plasma diagnostic techniques may strengthen the discussion.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | * The manuscript requires minor grammatical corrections to enhance readability. |  |
| Optional/General comments | The discussion could benefit from a comparison with other methods. |  |

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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: | **Nedelcu Nicoleta** |
| Department, University & Country | **Mount Royal University, Canada** |