|  |  |
| --- | --- |
| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_3724.36** |
| Title of the Manuscript: | **Study On The Optical Properties Of PVA /PEG Doped With Sodium Fluoride Salt Polymer Blend Electrolyte Films** |
| Type of the Article | **COMPLETE BOOK CHAPTER** |

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 study investigates the optical properties of PVA/PEG polymer blend films doped with sodium fluoride (NaF) and provides valuable insights into their potential applications in electrochemical devices. The paper clearly outlines the effect of NaF doping on the films' absorption, transmittance, and optical band gap. The methodology is sound, and the results are well-supported by experimental data. However, a deeper comparison with existing literature and further explanation of the underlying mechanisms would strengthen the conclusions." |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Optical Characterization of PVA/PEG Polymer Blend Electrolyte Films Doped with Sodium Fluoride for Advanced Electrochemical Applications" |  |
| **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.** | Avoid too much **technical detail** (e.g., lengthy descriptions of experimental setups or techniques). The abstract should remain concise and focused on the main findings and implications. |  |
| **Are subsections and structure of the manuscript 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.** | The manuscript is scientifically robust due to its use of well-established methods like UV-Vis spectroscopy for analyzing the optical properties of PVA/PEG films doped with NaF. The experimental design is appropriate, and the selection of materials is justified based on their known properties. The data analysis, including the calculation of the optical band gap, follows standard practices, ensuring the reliability of the results. Overall, the study is technically sound and provides valuable insights into the optical behavior of polymer electrolyte films. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **No suggestion** |  |

|  |  |  |
| --- | --- | --- |
| Minor REVISION comments  **Is the language/English quality of the article suitable for scholarly communications?** | The language and English quality of the article appear suitable for scholarly communication if it is clear, concise, and free from grammatical errors. The use of technical terminology should be precise and appropriate for the audience. However, if there are any issues with sentence structure, excessive jargon, or unclear explanations, these should be addressed to ensure that the article is easily understandable by researchers in the field. |  |
| **Optional/General** comments |  |  |

|  |  |  |
| --- | --- | --- |
| **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)* |  |

|  |  |
| --- | --- |
| Reviewer Details: | |
| Name: | **Patel Janvi Alpeshkumar** |
| Department, University & Country | **Bhagwan Mahavir University, India** |