

Review Form 1.7

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| Journal Name: | Physical Science International Journal |
| Manuscript Number: | Ms_PSIJ_116982 |
| Title of the Manuscript: | THEORETICAL STUDY OF INORGANIC CHARGE TRANSPORT LAYER OF PEROVSKITE SOLAR CELLS USING SCAPS SOFTWARE |
| Type of the Article | |

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PART 1: Review Comments

| | 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) |
|---|---|---|
| <p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No, kindly add recent references, few suggested references are given for authors;</p> <ol style="list-style-type: none"> 1. Lal M, Gangotri KM. Innovation in progressive study for prospective energy source through photo-galvanic-system: D-Xylose+MB+Brij-35+NaLS. Int J Energy Res. 2022; 46(14):19538-19547. Available from: https://doi.org/10.1002/er.8525. 2. Lal M, Gangotri KM. Innovative study in renewable energy source through mixed surfactant system for eco-friendly environment. Environ Sci Pollut Res. 2023;30(44) 98805-98813. https://doi.org/10.1007/s11356-023-28246-w | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>Yes</p> | |
| <p>Optional/General comments</p> | <p>Comments: The work is interesting and has the potential to contribute immensely to the area of solar cells. However, to make the article suitable for acceptance in the Physical Science International Journal, following modifications needs to be carried out;</p> <ol style="list-style-type: none"> 1. Is the abstract/summary a clear and concise statement of the background, aim/objectives, approach/methodology used, work carried out, main conclusions and industrial relevance of the paper? 2. English language should be carefully checked and carefully check paper for language typos 3. The conclusion should contain some quantitative observations and findings 4. Add citations to the host journal. 5 in page 4, last para, "Parameter Optimization: Iteratively adjust the input parameters to optimize the performance metrics of the perovskite solar cell, such as short-circuit current density (Jsc), open-circuit voltage (Voc), fill factor (FF), and peak power, towards achieving enhanced efficiency and stability" need to recheck. | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|--------------------|
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| Department, University & Country | JNVU, India |