



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Physical Science International Journal</a>   |
| Manuscript Number:       | Ms_PSIJ_42864  |
| Title of the Manuscript: | <b>Degradation of Monocrystalline Silicon Photovoltaic Cells/Modules under Heat and Temperature Effect</b> |
| Type of the Article      | Original Research Article  |

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**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)   |
|-------------------------------------|--|---|
| <b>Compulsory</b> REVISION comments | <p>The paper is too long, and too hard to read.<br/>The title does not match with the content of the paper. The degradation means something irreversible. The parameters can increase or decrease with the temperature, not degradation.<br/>The authors have made a good review about the factors which lead to degradation of the PV. The paper has two parts which are not connected.<br/>The degradation of the PV only in function of the temperature is very small, because they work in majority of cases under at 65 °C.<br/>The paper has to be made more understandable and better structured.<br/>Line 42 What does burnt cell mean?<br/>Line 51- FF is calculated in function of Pmax. Please reformulate the sentence.<br/>Lines 102-104 Please give the reference.<br/>Line 146 – Please correct.<br/>Line 544 – Please correct.<br/>Line 575 – What does optimal current-density mean? I didn't find this term in ref. [35]<br/>Line 878 – The authors made the simulation at 1000 W/m<sup>2</sup>, and in conclusions results appeared for 80 and 1000 W/m<sup>2</sup>.<br/>Line 962 – The ambient temperature axis must be the same in all fig.10-16<br/>Line 1033 – Please correct w with W</p> <p>Why is the range of the temperature in the label of all figures 10-16, 295-320 K, and in the abstract it is of up to 353 and in some fig of up to 353 and in others of up to 347 K?</p> | <p>We thank the reviewers for the hard and deep work that has been effected on this paper.</p> <p>We hope that all your recommendations and suggestions have been taken into account in order to improving the content of this manuscript.</p> <p>However see Fig.2 for more understanding of “burnt cell”.</p> |
| <b>Minor</b> REVISION comments      |  |   |
| <b>Optional/General</b> comments    |  |   |