Extended Abstract for tandemPV 2023

Johann S. Bach1, Roger Waters2, and Frank Zappa2

1 Affiliation, e-mail, city, and country

2 Other authors’ affiliation, city, country

Summary

If you are interested in the potential publication of your submission in Solar Energy Materials and Solar Cells, an extended abstract is required. Otherwise, a short abstract of 500 words and one figure is sufficient.

The extended abstract must not exceed three pages (including all figures, tables and references). It should allow the scientific committee to evaluate the originality, significance and technical quality of your work. It should start with the summary of the scientific work presented in your contribution. The summary should be written in a logical and traceable manner. The length of the summary should be in the range of around 10 to 15 lines.

Upload your extended abstract as an unprotected pdf-file to the tandemPV 2023 workshop website.

1. Formatting of the extended abstract
   1. General instructions

The extended abstract should be written in English. The standard font for the manuscript is Times New Roman 12 point for the text and Symbol for special characters. The paper size is A4 (210 mm x 297 mm). The text should be in single-column format. Margins are 30.0 mm top and left; 25.4 mm right and bottom. The first line of each paragraph should be indented (0.5 cm). The easiest way is using the template of this instruction!

Please convert your abstract to an **unprotected** pdf-file (= no password protection). It needs to be unprotected so that it is possible to insert an individual ID number into the header (since the extended abstracts will have no author information).

* 1. Title

The title of the abstract should indicate the content of the work, and be written first letters capitalized. If you need more than one line for the paper title please use a ‘soft’ line break (SHIFT+ Enter) instead of a line break. Number the sections and sub-sections with Arabic numerals. The heading of a section should be in Times New Roman 12 point bold in Capital letters, the sub-sections in Times New Roman 12 point bold.

* 1. Lists
* Bulleted lists can be used to arrange information more clearly in the text
* ….
  1. Tables and figures

Tables should be numbered consecutively with Roman numerals, followed by a caption (font: Times New Roman 10 point). All table columns should have a brief explanatory heading. The text in a table should be in Times New Roman 10 point and should have equal spacing above and below it (see Table I). Tables should be no larger than the printed area of the page and preferably oriented in the same way as the text (portrait). Tables too large to fit on one page should be broken up into smaller tables.

TABLE I. Table captions should be centred and placed above the table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cell type | *Voc*  (mV) | *Jsc*  (mA/cm2) | *FF*  (%) | **  (%) |
| Without passivation layer | 662 | 34.2 | 78.2 | 17.7 |
| With passivation layer | 678 | 35.6 | 78.5 | 18.9 |

Figures should be numbered consecutively with Arabic numerals, followed by a caption (font: Times New Roman 10 point). All figures must be provided at the actual size that they are to appear and inserted in the text after the paragraph where each is first mentioned.



FIG. 1. Figure captions should be centred and placed below the figure.

Please ensure that any colour figures remain clear and understandable when reproduced in black and white (see Fig. 1).

* 1. Equations

If you want to include a complicated equation that cannot by typed in one line, please use an equation editor and insert it in the text close to the point where it is mentioned. Equations should be numbered consecutively with Arabic numerals in parentheses. The size of the equation characters should be similar to that of the body text.

 (1)

* 1. References

All works cited in the paper must be referenced [1]. References should be numbered consecutively throughout the text and collected in a bibliographic list at the end of the paper (font: Times New Roman 10 point). Preferably, each reference should contain only one literature citation. Please use the following styles for references:

* *Reference to a conference paper:*M. P. Godlewski, C. R. Baraona, and H. W. Brandhorst, Jr., "Low-high junction theory applied to solar cells", Proceedings of the 10th IEEE Photovoltaic Specialists Conference, Palo Alto, California, USA, 1973, pp. 40-49.
* *Reference to a journal publication:*   
  W. Shockley and H. J. Queisser, "Detailed balance limit of efficiency of p-n junction solar cells", Journal of Applied Physics 32 (3), 510-519 (1961).
* *Reference to a book:*   
  E. H. Nicollian and J. R. Brews, "MOS Physics and Technology" (Wiley, New York, 1982).

In the text, references are noted by online Arabic numerals in square brackets, one space from words [1-3].

1. Submission of EXTENDED ABSTRACT: Data formats and delivery

Each extended abstract has to be submitted as an unprotected pdf-file to the tandemPV 2023 workshop website ([www.tandempv-workshop.com](http://www.tandempv-workshop.com)).

1. Publications

A selected number of abstracts will get the possibility to hand in a full paper for a special issue of the Journal Solar Energy Materials and Solar Cells.

1. references

[1] W. Shockley and H. J. Queisser, "Detailed balance limit of efficiency of p-n junction solar cells", Journal of Applied Physics 32 (3), 510-519 (1961).

[2] M. P. Godlewski, C. R. Baraona, and H. W. Brandhorst, Jr., "Low-high junction theory applied to solar cells", Proceedings of the 10th IEEE Photovoltaic Specialists Conference, Palo Alto, California, USA, 1973, pp. 40-49.

[3] E. H. Nicollian and J. R. Brews, "MOS Physics and Technology" (Wiley, New York, 1982).