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***RESEARCH ARTICLE - MATHEMATICS***

**Title of the article**

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| **Article Info.** | **Abstract** |
| *Article history:*  Received  XX February 2023  Accepted  XX April 2023  Publishing XX June 2023 | The manuscript should contain an abstract. The abstract should be self-contained and citation-free and should not exceed 300 words. The abstract should state the purpose, approach, results and conclusions of the work. The author should assume that the reader has some knowledge of the subject but has not read the paper. Thus, the abstract should be intelligible and complete in itself (no numerical references); it should not cite figures, tables, or sections of the paper. The abstract should be written using the third person instead of the first person. |
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**1. Introduction**

This document can be used as a template for Microsoft Word. Do not submit papers written with editors other than MS Word; they will not be accepted for review. Submit papers by performing careful spellcheck and English language grammar check. The style from these instructions will adjust your fonts and line spacing. Please do not change the font sizes or line spacing to squeeze more text into a limited number of pages.

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Top = 1.5cm

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*2.1. The paper should have the following structure*

2.1.1. Title of the paper

2.1.2. Authors and affiliations

2.1.3. Abstract

2.1.4. Keywords

2.1.5. Introduction

|  |  |  |  |
| --- | --- | --- | --- |
| **Nomenclature &** **Symbols** | |  |  |
| CPV | Concentrating Photovoltaic | CPC | Compound Parabolic Concentrator |
| CR | Concentration Ratio | PCM | Phase Change Material |
| Iabs | Irradiancies on the Absorber Plane (w/m2) | Aabs | Area of the Absorber Plane (m2) |
| Β | Reflectivity (%) | Ω | Vertex Angle (O) |

2.1.6. Nomenclature & Symbols

2.1.7. Main body

2.1.8. Conclusions

2.1.10. Acknowledgement

2.1.10. References

3. Page style

All paragraphs must be justified alignment with justified alignment.

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The entire document should be in Times New Roman. The font sizes to be used are specified in Table 1.

*3.2. Title and author details*

The title and authors' details must be in the middle of the page.

Only the first word in a title must be capitalised, and the other word should be in a small case. Author details must not show any professional title (e.g. Managing Director), any academic title (e.g. Dr.) or any member of any professional organization (e.g. Senior Member IEEE).

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Each affiliation must include, at the very least, the name of the company and the name of the country where the author is based (e.g. Education College, Mustansiriyah university, Baghdad, Iraq). Email address is compulsory for the corresponding author.

Table 1. Font Specifications for A4 Papers

|  |  |  |
| --- | --- | --- |
| Font Size | Appearance (in Time New Roman) | |
|  | Regular | Bold |
| 12 | table caption, centred  figure caption, centred  reference item |  |
| 10 | Author’s affiliation  Paragraph  abstract body |  |
| 10 |  | author name |
| 14 |  | Paper title |

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Graphs and other numbered figures should appear throughout the text as close to their mention as possible. Figures shouldn’t infringe upon the page borders.

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Photos must be crystal clear with such resolution to allow fine details visibility. The elements from any photo must be explained using numbers, letters, etc. The text within a figure or photo must have the same style, shape and height as the caption.

Any table, figure or picture must have a caption (Fig. 1, Table1, etc.) followed by a proper description. All similar graphics must be generated using the same software product (Excel, EES, Mat lap, Origin, Mathematica, etc.). Importing pictures into the article as images (JPG, BMP, PNG, etc.) should be avoided. All similar electronic schematics, charts, program flow, simulated characteristics, etc., from the article, should be generated using the same software product. Importing images from other articles or books, it’s totally forbidden unless they are cited.

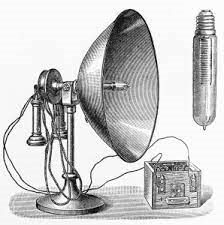
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Fig. 1. The text within the figure is Times New Roman, with an equivalent height of 9 points, as the caption is. All letters used in the figure are explained in the caption: L = patch length, W = patch width, Cd = cut depth, Cw = cut width, Fl = feed length, Fw = feed width

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Figures must be numbered using Arabic numerals. Figure captions must be in 8 pt Regular font. Captions of a single line (e.g. Fig. 2) must be centred, whereas multi-line captions must be justified (e.g. Fig. 1). Captions with figure numbers must be placed after their associated figures, as shown in Fig. 1.



Fig. 2. Solar system exploration

3.3.2. Table captions

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(1)

(2)

Use the same symbol in a definition over the entire article. Use correct symbols for physical or technical terms. (Example: ε0 and not ε0 for permittivity). Do not repeat definitions over the article. Refer to already defined symbols, equations, and theorems by using the cross reference number (Example: As pointed in (1) the…).

Acknowledgement

This is a text of acknowledgement. Do not forget the people who have assisted you with your work. Do not exaggerate with thanks. If your work has been paid by a Grant, mention the Grant name and number here.

**Reference**

**The IEEE style for references must be used. It is a numeric style, where citations are numbered [1] in the order of appearance.** There are standard reference formats for most types of documents. Below are examples of the most common types of documents you might want to reference. Each of the following gives a suggested standard format for the reference, followed by examples for the different document types.