



# CALL FOR PAPERS (Volume 9, Issue 1)

## PREAMBLE

**APWEN JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY (AJEST) ISSN: 2714-2396** is a publication of the Association of Professional Women Engineers of Nigeria, a division of the Nigerian Society of Engineers. The bi-annual journal accepts original article of scientific research work, technical notes and reviews in Engineering and Applied sciences. The journal is of high standard with internationally recognized editorial board that have acquired extensive academic qualifications.

## MANUSCRIPT DESIGN

The manuscript should consist of a Title page, Abstract, Keywords and the Main body which includes Introduction, Materials and Method, Results and Discussion and References.

The manuscript must be written in English, using Times New Romans font; 14-point bold upper case for the title, 12-point bold title case for the author(s) and headings, 10-point for affiliation, subheading and text, 2.5cm on all margins for page setup and a maximum of 12 pages per article, typed with single line spacing on A4 size paper.

## TITLE PAGE

Should include the title, not exceeding 16 words, the author's name(s) which shall be surname followed by initials of other names with no title. The affiliation of author(s) immediately below the author's name(s).

## ABSTRACT

Should not exceed 250 words.

## KEYWORDS

Should be provided beneath the abstract and not more than 5 words.

## INTRODUCTION

Should contain in brief, recent literature review related to the work.

## MATERIALS AND METHOD

Should include experimental methods, apparatus, experimental design, theoretical analysis, or description of the equipment used for the work, standard procedures may not be presented, but references should be made to authentic sources.

## RESULTS AND DISCUSSION

Could be presented in descriptive tabular or graphical forms and should clearly state the contributions and relevance of the findings. Duplication must be avoided.

## CONCLUSION

Summarize the contributions and relevance of the findings.

## SUBMISSION OF MANUSCRIPT

All manuscripts should be submitted electronically as an attachment to: [ajest@apwen.org.ng](mailto:ajest@apwen.org.ng)

If you have additional questions, please feel free to contact us at the address below:

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All manuscripts will undergo a double-blind review to ensure accuracy and relevance.

**Article Processing Fees of 25,000.00 Naira or \$50** will be paid by authors or authors' institution, after acceptance of the manuscript, before final publication on APWEN website.

**Deadline for Submission: 15 May 2026.**

**Publication Date: 5 June 2026.**

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ARTICLE TITLE (UPPERCASE)

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**Abstract.** An abstract is a summary of the paper and must contain all information necessary for the reader to determine: aim and objectives of the study; methodology; Results from the study; significance of the results and recommendation if any.

The maximum length of words for abstract is 250.

**Keywords:** Keyword1, keyword2, keyword3, etc. (5 keywords)

## 1. Introduction

We request authors to follow this guideline and format their manuscripts exactly the same as this document. The easiest way to do this is download this template and replace its contents with those in your manuscript.

### 1.1 Subtitle of introduction

All materials on all pages should fit within an area of A4 (21 x 29.7 cm), 2.8 cm from the top of the page and ending with 2.4 cm from the bottom. The left and right margins should both be 2.4 cm.

## 2. Materials and Method

This section provides details for typesetting your manuscript according to the formatting guidelines set for APWEN Engineering, Science and Technology Journal (AJEST). Use 12-point Times New Romans font for typesetting of the main text in the document. The main text starts at the top of the page and continues in a one column format. Place an indentation for each paragraph starting from the first in all sections or subsections. There is no space between paragraphs within the text.

### 2.1. Subtitle of material and methods

Use 16-point-bold Times New Romans font for the paper title. Author's names (12-point Times New Romans bold) and affiliations (10-point Times New Romans) are aligned left. Separate addresses for different affiliations and add a space between authors' names and affiliations.

### 2.2. Page Numbering / Header and Footer

Do not include headers, footers, or page numbers other than those already set in this manuscript. Note that the headers, footers or page numbers are different for the first page and the rest of the pages. Actual page numbers and other running heads will be modified when publications are assembled.

### 2.3. Mathematics

Math typesetting can be done by Equation Editor, or by any other system that produce clear math types (Times New Romans 11 pt.). Symbols and shorter expression can be placed within the text, e.g.  $\epsilon \rightarrow 0$ . More complex expression should be placed in a center of a new line:

$$f^0 = 122, 13344 \tag{1}$$

All equations should be numbered, right justified. They should be referred just like figures and tables, for instance, equation (1).

Table 1: Font type and size list for AJEST's template.

Item	Font Type	Font Size	Font
Title	Bold	16	Times New Romans
Author names	Bold	12	Times New Romans
affiliation/email	Regular	10	Times New Romans
Abstract/Keywords	Regular	12	Times New Romans
Level 1 headings	Bold	12	Times New Romans
Level 2 headings	Bold	12	Times New Romans
Level 1 headings	Regular	12	Times New Romans
Figure/Table Captions	Regular	12	Times New Romans
Main Text/References	Regular	12	Times New Romans



Fig. 1: The figure and caption are center-aligned

### 2.3 Figures/Captions

Place tables/figures/images at the center (see Table 1 and Fig. 1). Each figure or table must include a caption set in 11-point Times New Romans regular font, placed below the figure or above the table. The caption is center justified. Reference to the figure should follow the format "Fig. 1". Use "Figure 1" instead if it is at the beginning of a sentence. Figure numbering and referencing should be done sequentially, e.g. Fig. 1, Fig. 2, Table 1, Table 2. etc. Use Fig. 1(a), Fig. 1(b), etc. for figures with multiple parts.

## 3. Results and Discussion

### 3.1 Subtitle of results and discussion

This result entails the phase transformation of CO<sub>2</sub> and shows that it is easy to transport CO<sub>2</sub> in a dense liquid phase if it is compressed to suitable temperature and pressure. It has been established that beyond the critical temperature and pressure, CO<sub>2</sub> can be safely transported in the dense phase form.

The DOE/NETL model was adopted in this work and is used to compute the pipeline cost for CO<sub>2</sub> sequestration in Nigeria. To develop a costing model for the pipeline, there is a need for combination of the studies by the United States Department of Energy's and National Energy Technology Laboratory (NETL) on carbon dioxide transport with storage costs published in 2013 was adopted. CO<sub>2</sub> transport costs are broken down into three categories: pipeline capital costs, related capital expenditures, and operation and maintenance (O&M) costs. A regression analysis was used to generate the cost curves as a function of pipe diameter (in inches) and length (in miles). These costs are: (1) Pipeline Materials cost, (2) Direct Labour cost, (3) Miscellaneous Costs, and (4) Right-of-way acquisition cost [20], [21].

## 4. Conclusion

This section entails the summary of all the findings from the research work/review.

The heading of sections should be in 12-font size Times New Roman. Sections numbers are in Roman style. **(Capitalize each word)**

4.1. *Subsection Level 1* Use 12-font size Times New Roman font, in italic for the heading of subsections. **(Capitalize each word)**

4.1.1. *Sub-subsection Level 2* Use 11-font size Times New Roman font in italic, for the heading of the subsection. **(Capitalize each word)**

4.1.1.1. *Sub-subsection Level 3* All 10-font size in italic (*Sentence case*)

## 5. **Recommendation** (if needed)

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Maximum number of pages for each article is twelve (12).

## **Acknowledgement**

Funding supports should be acknowledged in this section.

## **References** (Harvard)

References should be arranged by the order in which they appear in the text. Only the references that are cited in the text should be added to the reference list and should be 50% recent references. Authors should follow the format as follows:

### Journal Citations Style

1. Okokpujie, I.P. and Tartibu, L.K., 2023. Aluminum alloy reinforced with agro-waste, and eggshell as viable material for wind turbine blade to annex potential wind energy: a review. *Journal of composites science*, 7(4), p.161.
2. Anyadike, C.C., Mbajiorgu, C.C. and Ajah, G.N., 2017. Aquacultural system management tool II: Analytical and managerial capability. *Agricultural Engineering International: CIGR Journal*, 19(3), pp.97-104.
3. Kelechi, S.E., Adamu, M., Mohammed, A., Ibrahim, Y.E. and Obianyo, I.I., 2022. Durability performance of self-compacting concrete containing crumb rubber, fly ash and calcium carbide waste. *Materials*, 15(2), p.488.

### Conference Citations Style

1. Ozoegwu, C.G., Oti, C.N., Okokpujie, I.P. and Akinlabi, E.T., 2019. Empirical Modelling of a Prototype Resistance Spot Welding Machine. *Journal of Physics: Conference Series*, 1378(3): 032101. IOP Publishing.
2. Erinosh, T.C., Amusa, K.A., Abayomi, A. and Lawal, A., 2024, August. Development of a Restricted Access and Energy-Efficient IoT-Based Greenhouse System for Tropical Climates. In *International Conference on Technology Advances for Green Solutions and Sustainable Development* (pp. 398-409). Cham: Springer Nature Switzerland.

### Book Series and Scientific Report

1. Odularu, G. and Alege, P. eds., 2019. *Trade facilitation capacity needs: policy directions for national and regional development in West Africa*. Springer.
2. Duru, S.C., Echiegu, E.A., Anyadike, C.C., Alaneme, G.U. and Okechukwu, M.E., 2024. Spatial variability of heavy metals concentrations in soil of auto-mechanic workshop clusters in Nsukka, Nigeria. *Scientific Reports*, 14(1), p.9681.