

Paper Type (Article/Review/Editorial, etc.)

Title

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Short Title 3

(Provide a descriptive, concise and comprehensible main title as well as an abbreviated form of the main title (running head) with no more than 75 characters (including blanks). The short title will be displayed on the top of each page of the final version.)

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Abstract: Please type your abstract here. Abstracts of a research paper should be typically 200 to 300 words in length, and 150 to 250 words for a review paper. We encourage authors to use the following style of structured abstracts, e.g., **Objectives:** Outline the broader context of the research and specify the study's objective. **Methods:** Describe the principal methods or procedures employed. **Results:** Summarize the major findings. **Conclusions:** State the key conclusions or interpretations drawn from the results. Abstracts shall not include reference citations. Abbreviations that appear only once in the abstract should be defined in full. If abbreviations appear more than once, the full definitions should be provided first before they can be used elsewhere.

Keywords: keyword 1; keyword 2; keyword 3 (List **3 to 6 pertinent keywords** specific to the article yet reasonably common within the subject discipline)

1 Introduction

Authors should use this Microsoft Word template when preparing their manuscripts for submission. Each section is assigned a specific style, accessible via the "Styles" gallery in Word.

In introduction, authors should provide a context or background for the study (the nature of the problem and its significance). State the specific purpose or research objective of, or hypothesis tested by, the study or observation. Cite only directly pertinent references, and do not include data or conclusions from the work being reported.

2 Structure 29

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2.1	Text Layout	35
	Paper size: US Letter $(8.5" \times 11" \text{ or } 21.59 \text{ cm} \times 27.94 \text{ cm})$.	36
	Paper Font: Minion Pro:	37
1. 2. 3. 4.	Title: 14 pt; Authors: 11 pt; Affiliations: 9 pt; Abstract, Keywords, Captions, Footers, Statements, References: 10 pt; Main text (except for special symbols & equations): 11 pt.	38 39 40 41 42
the	Use 0.75 cm indent on the first line of each new paragraph. Use single line spacing, 3 pt spacing after paragraph. All levels of headings should use 12 pt spacing before, 3 pt after.	43 44
2.2	Headings	45
fina	Please capitalize all initial letters of substantives of headings. (Headings will be un-numbered in the al publication.)	46 47
•	Level 1 headings for sections should be in bold, 11 pt, and be flushed to the left. Level 1 heading should be numbered using Arabic numbers, such as 1, 2, 3, Level 2 headings for subsections should be in bold-italic, 11 pt, and be flushed to the left. Level 2 headings should be numbered after the level one heading. For example, the second level two heading under the third level one heading should be numbered as 3.2 Level 3 headings should be in italic, 11 pt, and be flushed to the left. Similarly, the level 3 headings should be numbered after the level two headings, such as 3.2.1, 3.2.2, Level 4 headings should be in not italic and not bold, 11 pt, and be flushed to the left. Level 4 headings should not be numbered. This is the last level of headings permitted.	48 49 50 51 52 53 54 55 56
3 Fi	igures and Tables	57
	Figures and Tables must be numbered consecutively using Arabic numerals and placed within the text mediately following their first citation to maintain a seamless flow and clarity in the presentation. The t citation of figures and tables in the main text must follow a sequential order.	58 59 60
3.1	Figures	61
rele	Figures should be centered and should have a figure caption placed underneath. Figures may have evant legends but should not contain the same information which is already described in the main text.	62 63
3.1.	1 Figure Body	64
•	Figures should be scaled to fit within the allowable space while preserving their original proportions and avoiding distortion. The preferred format is .tif, with RGB color space, a DPI of 500+ (accepted image resolutions: Line Art \geq 900 dpi, Halftone \geq 300 dpi, Combo \geq 600 dpi), no alpha channels, and flattened layers;	65 66 67 68
•	Unnecessary marks such as red wavy lines and hard (soft) returns are not allowed in figures;	69

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should be legible, and images should be free of watermarks;

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- Multi-part figures should be labeled with capital letters. A main caption must be given before the explanation of part figures.

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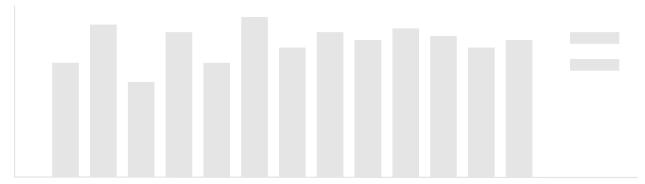


Figure 1: This is a figure example. Please remove all non-English terms or add a definition for them.

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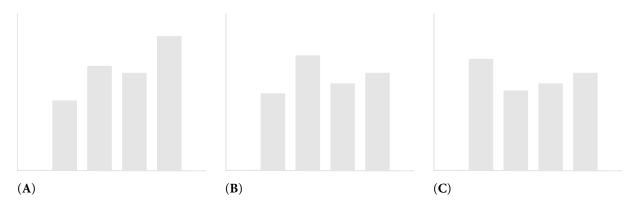


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When citing multiple figures, use the following formats: Figures 1 and 2, Figures 1–3, Figures 3A,B, Figures 4A–C.

3.2 Tables 96

3.2.1 Table Body

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- All tables must be submitted in an editable format and not as embedded images;
- Sub-tables, e.g., Table 1a and Table 1b, must be either merged into a single table or split into separate individual tables;
- Font color, background color, italics, bold, underlines, etc. in tables must be clearly explained; otherwise, they should be removed;
- Any special characters or icons in an image (e.g., ***, ^{abc}, ¹²³...) need to have a corresponding explanation (in table footers or captions).

3.2.2 Table Captions & Footer

Table captions should be centered (See Table 1). If the caption has more than one line, the text should be aligned justified on both ends.

Table 1: This is a table caption. Please add an explanation for bold/italics/underline/color to the table footer.

Header 1	Header 2	Header 3	Header 4	
data*	data	data	data	
data	data	data	data¹	

This is a table footer. *The special symbols should be explained in the table footer; ¹The special markers should be explained in the table footer. Ensure that permission has been obtained and there is no copyright issue. If copyright is needed, please provide a citation in the following format: "Reprinted/adapted with permission from reference [xx]. Copyright year, copyright owner's name".

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4 Equations and Mathematical Expressions

Equations and mathematical expressions must be inserted into the main text. Please use MathType editor or the equation editor of MS Word to edit the equations. Consistently use one of the equation editors (MathType or equation editor of MS Word) for an article. Formulas should not be presented as images and can be formatted in either in-line or display style.

4.1 In-Line Style

In-line equations/expressions are embedded into the paragraphs of the text. For example, $E = mc^2$.

In-line equations or expressions should not be numbered and should use the same/similar font and size as the main text.

4.2 Display Style

124 Equations in display format should be separated from the surrounding text, aligned to the left of the 125

column, with the equation label aligned to the right margin. Equations should be editable and numbered consecutively in Arabic numerals within parentheses, where applicable. See Eq. (1) for an example:

$$E = mc^2, (1)$$

the text following an equation need not be a new paragraph. Please punctuate equations as regular text. When citing multiple equations, please use the format: Eqs. (1) and (2), Eqs. (1)–(3).

4.3 Mathematical Expressions

Theorem-type environments (including propositions, lemmas, corollaries, etc.) can be formatted as follows:

Theorem 1: Example text of a theorem (Text should be italic). Theorems, propositions, lemmas, etc. should be numbered sequentially (i.e., Theorem 2 follows Theorem 1). Examples or Remarks use the same formatting, but should be numbered separately, so a document may contain Theorem 1, Remark 1 and Example 1.

The text continues here. Proofs must be formatted as follows:

Proof of Theorem 1: Text of the proof. Note that the phrase "of Theorem 1" is optional if it is clear which theorem is being referred to. Always finish a proof with the following symbol. □

Algorithms must be numbered consecutively using Arabic numerals and placed within the text immediately following their first citation to maintain a seamless flow and clarity in the presentation. The first citation of Algorithms in the main text must follow a sequential order. Algorithms can be formatted as follows (see Algorithm 1):

Algorithm 1: This is an algorithm caption

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for ... do
1:
2:
          for ... do
3:
               for ... do
4:
                    if ... then
5:
6:
                    end if
7:
               end for
          end for
8:
9:
    end for
```

Algorithms must be submitted in an editable format and not as images.

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5 Statements

Please note that the 8 pieces of information (Acknowledgement, Funding Statement, Author Contributions, Data Availability, Research Ethics, Informed Consent, Conflicts of Interest, Use of Large Language Models, AI and Machine Learning Tools) need to be truthfully provided at the end of the article.

Acknowledgement: This section is intended for acknowledging any support not covered under the Author Contributions or Funding Statement sections. This may include administrative and technical assistance, as well as in-kind contributions such as materials or equipment provided for the research. Please be aware that the specific funding grant number should only appear in the Funding Statement. If there are no acknowledgments to be made, please use "Not applicable" or "None".

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"The authors confirm contribution to the paper as follows: Conceptualization, First-name Lastname1 and First-name Lastname2; methodology, First-name Lastname1; software, First-name Lastname1; validation, First-name Lastname1, First-name Lastname2 and First-name Lastname3; formal analysis, First-name Lastname1; investigation, First-name Lastname1; resources, First-name Lastname1; data curation, First-name Lastname1; writing—original draft preparation, First-name Lastname1; writing—review and editing, First-name Lastname1; visualization, First-name Lastname1; supervision, First-name Lastname1; project administration, First-name Lastname1; funding acquisition, First-name Lastname1. All authors reviewed the results and approved the final version of the manuscript".

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- 2. Data available within the article or its Supplementary Materials.
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5. "Not applicable." (This article does not involve data availability, and this section is not applicable).

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Abbreviations 207

The following abbreviations are used in this manuscript:

Term 1 Interpretation 1 Term 2 Interpretation 2 Term 3 Interpretation 3 Term 4 Interpretation 4

Appendix 209

Use appendices for information that supports your findings but is not essential for the understanding of your paper (e.g., lengthy mathematical proofs, tables, graphics, etc.). Cite appendices within the main text. Tables and figures in the appendix should be numbered consecutively as follows: Figure A.1, Table A.1, Figure A.2, Table A.2, etc. The appendix is placed at the end of the main text before the reference list.

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discussed surveys, protocols, code samples, datasets, extensive tables, additional figures, multimedia files (audio, video, animations), etc. Please provide supplementary material data as separate file(s) of no more than 10 MB per file during submission. Please make sure to choose the file designation "Supplementary Material" only for the files which are to be published as supplementary material. Note that the material should be publication-ready (clean files, not in tracked changes mode), as it will not be typeset, but published exactly as supplied. Within the text, the supplementary material must be cited consecutively and be referred to as supplementary material data (e.g., see Supplementary Material, Fig. 1, or Figure S1, Table S1, Video S1, etc.).

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- 1. Rhee HS. Chosen-ciphertext attack secure public-key encryption with keyword search. Comput Mater Contin. 2022;73(1):69–85. doi:10.32604/cmc.2022.026751.
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