<u>ARTICLE</u>

Title

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ABSTRACT: Please type your abstract here. Abstracts of a research paper should be typically 200 to 400 words in length, and 150 to 300 words for a review paper. Abstracts shall be running continuously (not structured) and 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 10 pertinent keywords specific to the article yet reasonably common within the subject discipline)

1 Introduction

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

A manuscript should include the following sections: Title, Author Names with Affiliations, Abstract, Keywords, Main Text (for Articles, a structured format, e.g., Introduction, Results, Discussion, Methods, Conclusions, is recommended, while Reviews may use a more flexible structure), Acknowledgement (if any), Funding Statement, Author Contributions, Availability of Data and Materials, Ethics Approval, Conflict of Interests, Supplementary Materials (if any), Glossary (if any), Appendices (if any), and References.

2.1 Text Layout

Paper size: US Letter ($8.5'' \times 11''$ or 21.59 cm $\times$ 27.94 cm).
Paper Layout: Single column, Single spaced.
Use 0.75 cm indent on the first line of each new paragraph. Use single line spacing, 3 pt spacing after the paragraph. All levels of headings should use 12 pt spacing before, 3 pt after.

2.2 Headings

Please capitalize all initial letters of substantives of headings.

- 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.

3 Equations and Mathematical Expressions

Equations and mathematical expressions must be inserted into the main text. Formulas should not be presented as images and can be formatted in either in-line or display style.

3.1 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.

3.2 Display Style

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

$$E = mc^2 \tag{1}$$

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), Eqs. (1), (2) and (4).

3.3 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 □

The text continues here.

4 Figures and Tables

The first citation of figures and tables in the main text must follow a sequential order.

4.1 Figures

Figures should have relevant legends but should not contain the same information which is already described in the main text. Figures should 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.

4.1.1 Figure Format

Figures should be centered and should have a figure caption placed underneath.

To avoid any errors during position changes, please provide the combined image instead of editable pieces in the figure.

Figures should be scaled to a maximum width of 16.51 cm (6.50 in) and height of 20 cm (7.87 in), preserving their original proportions without 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.

4.1.2 Figure Labels and Captions

Figure labels must be sized in proportion to the image, sharp, and legible. The label size should be no smaller than 8-point and no larger than the font size of the main text. Labels must be saved using standard fonts (Arial, Helvetica or Symbol font) and should be consistent for all the figures. All labels should be in black, and should not be overlapped, faded, broken or distorted. Space must be inserted before measurement units. The first letter of each phrase, not each word, must be capitalized.

Attention: (**A**) Unnecessary marks such as red wavy lines and hard (soft) returns are not allowed in figures. (**B**) Any special characters or icons in an image (e.g., *, **, ***, $^{\#}$, . . .) need to have a corresponding explanation (can be added in the image or caption). (**C**) References in the form of "[xx]" are not allowed in the image. If necessary, "Author + Year" format can be used in the image, and all mentioned references must be cited in the caption.

One-line caption should be centered in the column, in the format of "**Figure 1:** The text caption . . . ". For one example, see Fig. 1 below.

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

If the caption has more than one line, the text should be justify aligned on both ends. For one example, see Fig. 2 below.
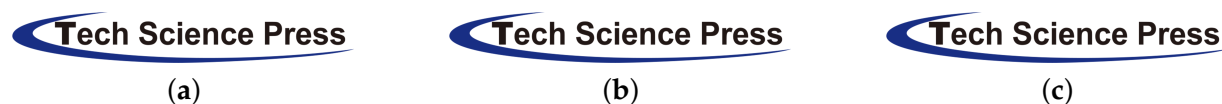
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(a)

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(c)

Figure 2: All special symbols and markings in the image require corresponding explanations in the caption. If there are multiple panels, they should be listed as: (**a**) Description of what is contained in the first panel; (**b**) Description of what is contained in the second panel; (**c**) Description of what is contained in the second panel. 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"

When citing multiple figures, use the following formats: Figs. 1 and 2, Figs. 1–3, Fig. 3a,b, Fig. 4a–c.

4.2 Tables

Tables should also be numbered consecutively using Arabic numbers. They should be placed in the text soon after the point where they are referenced. Tables should be centered and should have a table caption placed above. Please provide an editable table in MS Word format, not images.

Captions should be centered in the format "**Table 1:** The text caption . . . ". For one example, see Table 1. If the caption has more than one line, the text should be aligned justified on both ends.

Table 1: Please add an explanation for bold/italics/underline/color in the table footer

Header 1	Header 2	Header 3	Header 4
data[*]	data	data	data
data	data	data	data[1]

[*]The special note should be explained in table footer; [1]The special note should be explained in table footer.

When citing multiple tables, use the following formats: Tables 1 and 2, Tables 1–3, Tables 1, 2 and 4.

5 Statements

Please note that the 6 pieces of information (Acknowledgement, Funding Statement, Author Contributions, Availability of Data and Materials, Ethics Approval, Conflicts of Interest) 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.

Funding Statement: Authors should describe sources of funding that have supported the work, including specific grant numbers, initials of authors who received the grant, and the URLs to sponsors' websites: "This research was funded by Name of Funder, grant number xxx" or "The APC was funded by xxx". If there is no funding support, please write "The author(s) received no specific funding for this study".

Author Contributions: The Author Contributions statement is mandatory for research articles, except for papers with a single author. It should represent all the authors and is to be included upon submission. All listed authors should have substantially contributed to the manuscript and have approved the final

submitted version, which should include a description of each author's specific work and contribution. We suggest the following format for the contribution statement:

"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"

Please turn to the CRediT role descriptors—CRediT for the term explanation.

Availability of Data and Materials: This statement should make clear how readers can access the data used in the study and explain why any unavailable data cannot be released. The following five statements are offered for reference:

1. Data openly available in a public repository.
   "The data that support the findings of this study are openly available in [repository name] at [URL]."
2. Data available within the article or its Supplementary Materials.
   "The authors confirm that the data supporting the findings of this study are available within the article [and/or] its Supplementary Materials."
3. Data available on request from the authors.
   "The data that support the findings of this study are available from the Corresponding Author, [author initials], upon reasonable request."
4. Data not available due to [ethical/legal/commercial] restrictions.
   "Due to the nature of this research, participants of this study did not agree for their data to be shared publicly, so supporting data is not available."
5. "Not applicable." (This article does not involve data availability, and this section is not applicable).

Ethics Approval: Guidelines for ethical approval statements may differ based on the journal, a standard ethical approval statement will usually include:

1. Whether or not the study included human or animal subjects. In all cases, the ethical approval status of the work should be stated in the ethical approval statement.
2. The committee which approved the study.
3. The compliance documents. What policies, declarations, acts, etc.
4. Persistent identifier: reference or approval number. Include the registration ID/reference number if applicable.
5. "Not applicable." for studies not involving humans or animals.

Conflicts of Interest: Declare conflicts of interest or state: "The author(s) declare(s) no conflicts of interest to report regarding the present study".

Supplementary Materials: Supplementary Materials should be uploaded separately on submission. The supplementary files will also be available to the referees as part of the peer-review process. Any file format is acceptable; however, we recommend that common, non-proprietary formats are used where possible. Supplementary materials should be clean, without tracked changes, highlights, comments or line numbers. Supplementary figures must be clear and readable, and we recommend a minimum resolution of 300 dpi, figure legends must be clear and accurate. Supplementary materials must be mentioned in the main text. The citation format of Supplementary Figure, Table, Equation, etc., should start with a prefix "S" (i.e., Fig. S1, Eq. (S2), Table S1, etc.).

Abbreviations

The following abbreviations are used in this manuscript:

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

Appendix A

Appendix A.1

The appendix is an optional section that can contain details and data supplemental to the main text. Authors that need to include an Appendix section should place it before the References section. Multiple appendices should all have headings in the style used for above. They should be ordered as such: A, B, and C, etc.

Appendix B

Appendix sections must be referenced in the main text. Within the appendices, figures, tables, and other elements should be labeled starting with "A"—e.g., Figure A1, Table A1, etc.

Table A1: Please note that even the elements in Appendix B are prefixed with "A" before their numbers

Header 1	Header 2	Header 3	Header 4
data	data	data	data
data	data	data	data

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