

**ARTICLE**

## Title

**Firstname Lastname<sup>1,#</sup>, Firstname Lastname<sup>2,#</sup> and Firstname Lastname<sup>2,\*</sup>**

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<sup>2</sup>Affiliation 2, City, Postcode, Country

\*Corresponding Author: Author's Name. Email: author@institute.xxx

#These authors contributed equally to this work

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1 **ABSTRACT:** Please type your abstract here. Abstracts of a research paper should be typically 200 to 400  
2 words in length, and 150 to 300 words for a review paper. Abstracts shall be running continuously (not  
3 structured) and shall not include reference citations. Abbreviations that appear only once in the abstract  
4 should be defined in full. If abbreviations appear more than once, the full definitions should be provided  
5 first before they can be used elsewhere.

6 **KEYWORDS:** Keyword 1; keyword 2; keyword 3 (List 3 to 10 pertinent keywords specific to the article yet  
7 reasonably common within the subject discipline)

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## 8 1 Introduction

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

## 13 2 Structure

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

### 20 2.1 Text Layout

21 Paper size: US Letter (8.5" × 11" or 21.59 cm × 27.94 cm).

22 Paper Layout: Single column, Single spaced.

23 Use 0.75 cm indent on the first line of each new paragraph. Use single line spacing, 3 pt spacing  
24 after the paragraph. All levels of headings should use 12 pt spacing before, 3 pt after.

## 25 2.2 Headings

26 Please capitalize all initial letters of substantives of headings.

- 27 • Level 1 headings for sections should be in bold, 11 pt, and be flushed to the left. Level 1
- 28 heading should be numbered using Arabic numbers, such as 1, 2, 3, . . .
- 29 • Level 2 headings for subsections should be in bold-italic, 11 pt, and be flushed to the left. Level
- 30 2 headings should be numbered after the level one heading. For example, the second level two
- 31 heading under the third level one heading should be numbered as 3.2.
- 32 • Level 3 headings should be in italic, 11 pt, and be flushed to the left. Similarly, the level 3
- 33 headings should be numbered after the level two headings, such as 3.2.1, 3.2.2, . . .
- 34 • Level 4 headings should be in not italic and not bold, 11 pt, and be flushed to the left. Level 4
- 35 headings should not be numbered. This is the last level of headings permitted.

## 36 3 Equations and Mathematical Expressions

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

### 39 3.1 In-Line Style

40 In-line equations/expressions are embedded into the paragraphs of the text. For example,  
41  $E = mc^2$ . In-line equations or expressions should not be numbered and should use the same/similar  
42 font and size as the main text.

### 43 3.2 Display Style

44 Equations in display format should be separated from the surrounding text, aligned to the left  
45 of the column, with the equation label aligned to the right margin. Equations should be editable  
46 and numbered consecutively in Arabic numerals within parentheses, where applicable. See Eq. (1)  
47 for an example:

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

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

### 50 3.3 Mathematical Expressions

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

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

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

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

59 The text continues here.

## 60 4 Figures and Tables

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

### 62 4.1 Figures

63 Figures should have relevant legends but should not contain the same information which  
64 is already described in the main text. Figures should be numbered consecutively using Arabic  
65 numerals and placed within the text immediately following their first citation to maintain a seamless  
66 flow and clarity in the presentation.

#### 67 4.1.1 Figure Format

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

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

71 Figures should be scaled to a maximum width of 16.51 cm (6.50 in) and height of 20 cm (7.87 in),  
72 preserving their original proportions without distortion. The preferred format is .tif, with RGB  
73 color space, a DPI of 500+ (accepted image resolutions: Line Art  $\geq$  900 dpi, Halftone  $\geq$  300 dpi,  
74 Combo  $\geq$  600 dpi), no alpha channels, and flattened layers.

#### 75 4.1.2 Figure Labels and Captions

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

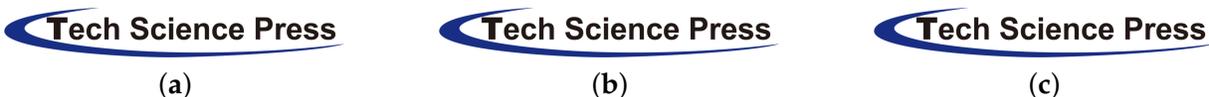
82 Attention: (A) Unnecessary marks such as red wavy lines and hard (soft) returns are not  
83 allowed in figures. (B) Any special characters or icons in an image (e.g., \*, \*\*, \*\*\*, #, ...) need to have  
84 a corresponding explanation (can be added in the image or caption). (C) References in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

87 One-line caption should be centered in the column, in the format of “**Figure 1:** The text  
88 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

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



**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”

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

### 93 4.2 Tables

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

97 Captions should be centered in the format “**Table 1:** The text caption . . .”. For one example,  
98 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

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data*	data	data	data
data	data	data	data <sup>1</sup>

\*The special note should be explained in table footer; <sup>1</sup>The special note should be explained in table footer.

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

### 101 5 Statements

102 Please note that the 6 pieces of information (Acknowledgement, Funding Statement, Author  
103 Contributions, Availability of Data and Materials, Ethics Approval, Conflicts of Interest) need to be  
104 truthfully provided at the end of the article.

105 **Acknowledgment:** This section is intended for acknowledging any support not covered under the Author  
106 Contributions or Funding Statement sections. This may include administrative and technical assistance, as  
107 well as in-kind contributions such as materials or equipment provided for the research. Please be aware that  
108 the specific funding grant number should only appear in the Funding Statement.

109 **Funding Statement:** Authors should describe sources of funding that have supported the work, including  
110 specific grant numbers, initials of authors who received the grant, and the URLs to sponsors’ websites: “This

111 research was funded by Name of Funder, grant number xxx” or “The APC was funded by xxx”. If there is no  
112 funding support, please write “The author(s) received no specific funding for this study”.

113 **Author Contributions:** The Author Contributions statement is mandatory for research articles, except for  
114 papers with a single author. It should represent all the authors and is to be included upon submission.  
115 All listed authors should have substantially contributed to the manuscript and have approved the final  
116 submitted version, which should include a description of each author’s specific work and contribution. We  
117 suggest the following format for the contribution statement:

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

126 Please turn to the [CRedit role descriptors—CRedit](#) for the term explanation.

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

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

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

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

151 **Conflicts of Interest:** Declare conflicts of interest or state: “The author(s) declare(s) no conflicts of interest to  
152 report regarding the present study”.

153 **Supplementary Materials:** Supplementary Materials should be uploaded separately on submission. The  
154 supplementary files will also be available to the referees as part of the peer-review process. Any file format  
155 is acceptable; however, we recommend that common, non-proprietary formats are used where possible.  
156 Supplementary materials should be clean, without tracked changes, highlights, comments or line numbers.  
157 Supplementary figures must be clear and readable, and we recommend a minimum resolution of 300 dpi,

158 figure legends must be clear and accurate. Supplementary materials must be mentioned in the main text.  
 159 The citation format of Supplementary Figure, Table, Equation, etc., should start with a prefix “S” (i.e., Fig. S1,  
 160 Eq. (S2), Table S1, etc.).

## 161 Abbreviations

162 The following abbreviations are used in this manuscript:

163 Term 1 Interpretation 1  
 164 Term 2 Interpretation 2  
 Term 3 Interpretation 3

## 165 Appendix A

### 166 Appendix A.1

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

## 171 Appendix B

172 Appendix sections must be referenced in the main text. Within the appendices, figures, tables,  
 173 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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