

Title

First Author (Firstname Lastname)^{1,*}, Second Author² and Third author^{1,2}

¹ First affiliation, Laboratory, Institute, Department, Organization, City, State, Country

² Second affiliation, Laboratory, Institute, Department, Organization, City, State, Country

* Correspondence

e-mail@email.com

Tel: (Optional; include country code)

Received: date

Revised: date

Accepted: date

Published: date

Copyright: © The Author(s) 2026.

Submitted with the intention of open access publication in

accordance with the Creative

Commons Attribution (CC BY)

license terms

([https://creativecommons.org/](https://creativecommons.org/licenses/by/4.0/)

<https://creativecommons.org/licenses/by/4.0/>).

Abstract

The abstract should consist of a single paragraph of no more than 250 words. For research articles, it must provide a clear and relevant overview of the study. Authors are encouraged to follow a structured approach—without using references, abbreviations, or subheadings—by briefly outlining: (1) Background: State the specific problem or question your study addresses and highlight the purpose of the study, (2) Methods: Summarize the approach, design, or key techniques used, (3) Results: Present the major findings—quantitative or qualitative—as clearly and precisely as possible, and (4) Conclusions: the main conclusions or interpretations. The abstract should accurately reflect the content of the article, avoid presenting unsupported or exaggerated findings, and must not include any results that are not fully described within the main text.

Keywords: keyword 1; keyword 2; keyword 3 (List five to ten keywords that accurately reflect the central themes and concepts of the article.)

Scope statement:

Authors must include a 200-word scope statement that summarizes the manuscript's relevance, focus, and contribution to the journal and/or the specialty section. This scope statement will be used internally by editors and reviewers during the validation and review stages to assess the manuscript's suitability for the selected journal or section. It will not be published with the final article.

1. INTRODUCTION

The Introduction should be concise and engaging, written as a single section without subheadings. Its primary goal is to establish the background, define the problem, and explain the study's purpose and significance in the broader scientific context. For instance, a practical introduction might begin with a compelling anecdote or a thought-provoking question to engage the reader, followed by a brief overview of the research topic and its importance.

In short, the Introduction must answer the question: What is being studied? Why is it important? What was known before? How does this study significantly advance our understanding, and how do its findings impact the field?

In-text citations must correspond precisely to entries in the reference list. Include the author's surname and the year of publication, separated by a comma in small brackets—e.g., (Author, 2014) or (Author and Author, 2026; Author *et al.*, 2018) or (Author, 2013; Author and Author, 2015; Author *et al.*, 2016). For additional details, please refer to the References section at the end of the document.

2. MATERIALS AND METHODS

The Materials and Methods section must provide sufficient detail for others to replicate the study and build upon the published findings. By submitting your manuscript, you acknowledge the responsibility to make all related materials, data, computer code, and protocols available to readers. Any restrictions on the availability of these resources should be disclosed at the time of submission. New methods and protocols should be fully described, while established methods may be summarized and properly cited.

For research manuscripts that include large datasets deposited in publicly accessible databases, the repository location and corresponding accession numbers must be provided. If accession numbers are not yet available at submission, please indicate that they will be supplied during the review process; they must be included before publication.

Studies involving human or animal interventions, or any research requiring ethical approval, must identify the approving authority and provide the relevant ethics approval code.

When applicable, authors must also disclose how generative artificial intelligence (GenAI) tools were used in the preparation of the manuscript—for example, in generating text, data, graphics, or contributing to study design, data collection, analysis, or interpretation. Use of GenAI strictly for surface-level editing, such as grammar, spelling, punctuation, or formatting, does not require disclosure.

3. RESULTS

The Results section presents the findings of your study clearly and objectively, without interpretation. It should follow a logical sequence and may be divided into subheadings for clarity. Avoid footnotes—include all necessary details directly in the text.

3.1. Subsection

3.1.1. Sub-subsection

Bulleted lists can be added as follows:

- First bullet;
- Second bullet;
- Third bullet.

Numbered lists can be added as follows:

1. First Item;
2. Second Item;
3. Third Item.

The text continues here.

3.2. Figures

To ensure the highest-quality publication of figures, please submit all digital artwork at the correct resolution, size, and file format. Upload each figure as a separate file during the final submission process; do not embed figures within the main document. Figures must be cited in consecutive order within the text (e.g., **Fig. 1**), and individual figure parts should be labeled using lowercase letters (**Fig. 2a, b**).

3.3. Tables

Tables should be used to present precise numerical data that illustrate comparisons or relationships. Each table must be entirely understandable on its own, without requiring reference to the main text, figures, or other tables, and authors should avoid repeating information already presented elsewhere. Tables must also be cited in consecutive order within the text (e.g., **Table 1**).

The text continues here (**Table 2**).

3.4. Mathematical Formatting Guidelines

Example 1 below illustrates equation formatting.

$$x = y + z + 100 \quad (1)$$



Figure 1: The figure must have a concise caption that clearly describes its content.

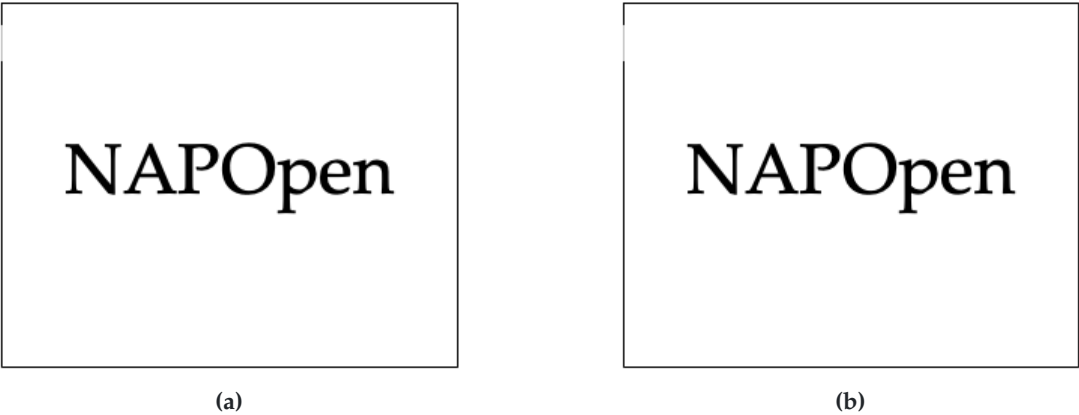


Figure 2: Multi-panel figures must be uploaded as one combined file. In the figure legend, describe each panel individually in order—for example: (a) description of the first panel; (b) description of the second panel.

Table 1: Place the caption directly above the table and ensure it is concise and fully self-explanatory.

Title 1	Title 2	Title 3	Title 4
entry 1	data ^a	data	data
entry 2	data	data	data
entry 3	data	data	data
entry 4	data	data	data

^a The table footnotes are placed below the table in this section.

Table 2: Multi-title table layout

	Title 1		Title 2	
entry 1	subtitle 1	subtitle 2	subtitle 3	subtitle 4
	data	data	data	data
	data	data	data	data
entry 2	subtitle 1	subtitle 2	subtitle 3	subtitle 4
	data	data	data	data
	data	data	data	data
entry 3 *	data	data	data	data

* The table footnotes are placed below the table in this section.

Subsequent text may continue in the same paragraph, and equations should be punctuated in the same manner as standard prose.

Example 2 below illustrates equation formatting.

$$\begin{aligned}x &= a + b + c \\ &= d + e + f\end{aligned}\tag{2}$$

Subsequent text may continue in the same paragraph, and equations should be punctuated in the same manner as standard prose.

The following format may be used for theorem-type environments, including propositions, lemmas, and corollaries:

Theorem 1: *Example text of a theorem. All theorem-type statements—including propositions and lemmas—should be numbered in a single, continuous sequence. In contrast, examples and remarks should retain separate numbering systems, resulting in documents that may include Theorem 1, Remark 1, and Example 1.*

Proof of Theorem 1: Text of the evidence. Ensure that each proof ends with the standard end-of-proof mark. $\square$

The text continues here.

4. DISCUSSION

The Discussion interprets your findings, situates them within the existing knowledge, and highlights their broader significance. It should explain how your work advances understanding, addresses limitations, and points toward future research directions. Subheadings may be used for clarity.

5. CONCLUSIONS

The Conclusion should provide a clear and concise summary of the paper's key findings, interpretations, and overall contributions. It serves as the final impression for readers and should reinforce the importance and impact of the work presented.

6. END MATTER

This section is optional and should be included only if the work reported in the manuscript has resulted in one or more patents.

Supplementary Materials: The following supporting information can be downloaded at: <https://www.napopen.com/SI/doi>, Figure S1: title; Table S1: title.

Data Availability Statement: We encourage all authors publishing in NAP journals to make their research data accessible. In this section, please specify where the data supporting the reported findings can be located, including links to any publicly archived datasets generated or analyzed during the study. If no new data were produced, or if data cannot be shared due to privacy or ethical constraints, a statement is still required. Recommended Data Availability Statements are available in the "NAP Ethical and Research Data Policies" section at <https://www.napopen.com/guidelines/editorial-policies>.

Author Contributions: For research articles with multiple authors, a brief statement outlining each author's specific contributions is required. The following format should be used: "Conceptualization, X.X. and Y.Y.; methodology, X.X.; software, X.X.; validation, X.X., Y.Y. and Z.Z.; formal analysis, X.X.; investigation, X.X.; resources, X.X.; data curation, X.X.; writing—original draft preparation, X.X.; writing—review and editing, X.X.; visualization, X.X.; supervision, X.X.; project administration, X.X.; funding acquisition, Y.Y. All authors have read and approved the final version of the manuscript." Please refer to the [CRediT taxonomy](#) for definitions of contributor roles. Authorship should be restricted to individuals who have made substantial contributions to the work.

Funding: Please include one of the following statements, as appropriate: "This research received no external funding," or "This research was funded by [Name of Funder], grant number [XXX]," along with "The APC was funded by

[XXX].” Ensure that all funding information is accurate and that the official spelling of funding agency names matches the listings at <https://search.crossref.org/funding>. Incorrect information may impact future funding records.

Acknowledgments: In this section, acknowledge any support that is not addressed in the Author Contributions or Funding statements. This may include editorial or technical assistance, as well as in-kind contributions such as donated materials used in the research. If generative artificial intelligence (GenAI) tools were used—for example, to generate text, data, or graphics, or to aid in study design, data collection, analysis, or interpretation—please include the following statement: “During the preparation of this manuscript/study, the author(s) used [tool name, version] for [description of use]. The authors have reviewed and edited the output and take full responsibility for the content of this publication.”

Competing Interest: Authors must disclose any competing interests or explicitly state, “The authors declare no competing interests.” Any personal circumstances or relationships that could be viewed as influencing the presentation or interpretation of the research must be clearly identified. Additionally, authors must specify the role of funders—if any—in the study’s design, data collection, analysis, interpretation, manuscript preparation, or the decision to publish. If funders had no involvement, please include the statement: “The funders had no role in the design of the study; in the collection, analyses, or interpretation of data; in the writing of the manuscript; or in the decision to publish the results.”

Abbreviations

Authors should follow recognized international standards for terminology, abbreviations, units, and scientific naming. The following abbreviations are used in this manuscript:

NAP	North American Publication
GLM	General Linear Model
QA	Quality Assurance
SEM	Standard Error of Mean

Appendix A

Appendix A.1

Appendices are optional and typically appear only when such supplementary content adds genuine value to the paper. In most published articles, they are used sparingly. The Appendix (or Appendices) provides supplementary material that supports the main text but is not essential for understanding the core content of the paper. It allows authors to include additional details, data, or explanations that clarify or expand on key points without interrupting the main narrative.

Table A1: Table caption.

Title 1	Title 2	Title 3
entry 1	data 1	data 1
entry 2	data 2	data 2
entry 3	data 3	data 3

Appendix B

All appendix sections must be referenced in the main text. Within the appendices, figures, tables, and other elements should be labeled using the corresponding appendix letter—e.g., Appendix A: Figure A1, Figure A2; Appendix B: Table B1, Figure B1, and so on.

REFERENCES

Every citation appearing in the text, figures, or tables must correspond to an entry in the reference list, and all items in the reference list must be cited in the manuscript. References should be arranged alphabetically by the first author’s surname, and all authors’ names must be included (do not use “et al.” in the reference list). Provide digital object identifiers (DOIs) whenever available, and carefully verify all reference details, including author names, title spellings, journal abbreviations, volume and issue numbers, page ranges, and DOIs.

Citations and references included in the Supplementary Materials are acceptable, provided they are also listed in the main reference list.

In the text, citations should appear in parentheses with the author's surname and the publication year—for example, (Author, Year). For works with more than two authors, cite only the first author followed by "et al." in the text (e.g., Author et al., Year).

Author, A.A. (2013). *Title of Thesis*. [Doctoral dissertation], Name of Institution, City, State, Country. Database Name.

Author, A.A. (2014). *Title of Patent*. (Country Patent No. X,XXX,XXX). Country: Issuing Body. Available at: <https://www.napopen.com> (accessed Jan. 15, 2026).

Author, A.A. (2020). *Title of presentation* [Paper presentation]. Conference Name, City, State, Country.

Author, A.A. (2022). Title of report: Subtitle (Report No. XXX). Publisher/Agency. <https://doi.org/10.19026/xxxxx>.

Author, A.A. (2025). *Title of material* [Preprint]. Server Name. <https://doi.org/10.19026/xxxxx>.

Author, A.A., and Author, B.B. (2015). Title of the article. *Abbreviated Journal Name*, 9, pp. 12-13. Abstract retrieved from Database Name (Record ID: 0000).

Author, A.A., and Author, B.B. (2021). Title of paper. In E. Editor and F. Editor (Eds.), *Title of conference proceedings* (pp. 300-310). Publisher.

Author, A.A., and Author, B.B. (2026). Title of unpublished work. *Abbreviated Journal Name*, in press.

Author, A.A., Author, B.B., and Author, C.C. (2016). *Book Title*, 3rd ed.; Publisher: Publisher Location, Country, pp. 154-196.

Author, A.A., Author, B.B., and Author, C.C. (2017). Title of chapter. In E.E. Editor and F.F. Editor (Eds.), *Title of Book: Subtitle* (pp. 45-67). Publisher: Publisher Location, Country.

Author, A.A., Author, B.B., and Author, C.C. (2018). Title of the article. *Abbreviated Journal Name*, 12, pp. 101-110.

Author, A.A., Author, B.B., and Author, C.C. (2019). Title of the article. *Abbreviated Journal Name*, 13, pp. 201-215. <https://doi.org/10.19026/xxxxx>.

Author, A.A., Author, B.B., and Author, C.C. (2024). *Title of material* [Description]. Repository Name. Version 3. <https://doi.org/10.19026/xxxxx> (accessed Jan. 15, 2026).

Group Name. (2023). Title of the page. Available online: <https://www.napopen.com> (accessed Jan. 15, 2026).