Article Title

First Author^{1,2*}, Second Author^{2,3†} and Third Author^{1,2†}

*Corresponding author(s). E-mail(s): iauthor@gmail.com; Contributing authors: iiauthor@gmail.com; iiiauthor@gmail.com; †These authors contributed equally to this work.

Abstract

The abstract serves both as a general introduction to the topic and as a brief, non-technical summary of the main results and their implications. Authors are advised to check the author instructions for the journal they are submitting to for word limits and if structural elements like subheadings, citations, or equations are permitted.

Keywords: keyword1, Keyword2, Keyword3, Keyword4

1 Introduction

The Introduction section, of referenced text Campbell and Gear (1995) expands on the background of the work (some overlap with the Abstract is acceptable). The introduction should not include subheadings.

Springer Nature does not impose a strict layout as standard however authors are advised to check the individual requirements for the journal they are planning to submit to as there may be journal-level preferences. When preparing your text please also be aware that some stylistic choices are not supported in full text XML (publication version), including coloured font. These will not be replicated in the typeset article if it is accepted.

^{1*}Department, Organization, Street, City, 100190, State, Country.

²Department, Organization, Street, City, 10587, State, Country.

³Department, Organization, Street, City, 610101, State, Country.

2 Results

Sample body text. Sample body text.

3 This is an example for first level head—section head

3.1 This is an example for second level head—subsection head

3.1.1 This is an example for third level head—subsubsection head

Sample body text. Sample body text.

3.2 Details on reference citations

Standard IATEX permits only numerical citations. To support both numerical and author-year citations this template uses natbib IATEX package. For style guidance please refer to the template user manual.

Here is an example for \cite{...}: Campbell and Gear (1995). Another example for \citep{...}: (Slifka & Whitton, 2000). For author-year citation mode, \cite{...} prints Jones et al. (1990) and \citep{...} prints (Jones et al., 1990).

All cited bib entries are printed at the end of this article: Hamburger (1995), Geddes, Czapor, and Labahn (1992), Broy (1992), Seymour (1981), Smith (1976), Chung and Morris (1978), Hao, AghaKouchak, Nakhjiri, and Farahmand (2014), Babichev, Ries, and Lvovsky (2002), Beneke, Buchalla, and Dunietz (1997), Stahl (2020) and Abbott et al. (2019).

4 Methods

Topical subheadings are allowed. Authors must ensure that their Methods section includes adequate experimental and characterization data necessary for others in the field to reproduce their work. Authors are encouraged to include RIIDs where appropriate.

Ethical approval declarations (only required where applicable) Any article reporting experiment/s carried out on (i) live vertebrate (or higher invertebrates), (ii) humans or (iii) human samples must include an unambiguous statement within the methods section that meets the following requirements:

- 1. Approval: a statement which confirms that all experimental protocols were approved by a named institutional and/or licensing committee. Please identify the approving body in the methods section
- 2. Accordance: a statement explicitly saying that the methods were carried out in accordance with the relevant guidelines and regulations

3. Informed consent (for experiments involving humans or human tissue samples): include a statement confirming that informed consent was obtained from all participants and/or their legal guardian/s

If your manuscript includes potentially identifying patient/participant information, or if it describes human transplantation research, or if it reports results of a clinical trial then additional information will be required. Please visit (https://www.nature.com/nature-research/editorial-policies) for Nature Portfolio journals, (https://www.springer.com/gp/authors-editors/journal-author/journal-author-helpdesk/publishing-ethics/14214) for Springer Nature journals, or (https://www.biomedcentral.com/getpublished/editorial-policies#ethics+and+consent) for BMC.

5 Discussion

Discussions should be brief and focused. In some disciplines use of Discussion or 'Conclusion' is interchangeable. It is not mandatory to use both. Some journals prefer a section 'Results and Discussion' followed by a section 'Conclusion'. Please refer to Journal-level guidance for any specific requirements.

6 Conclusion

Conclusions may be used to restate your hypothesis or research question, restate your major findings, explain the relevance and the added value of your work, highlight any limitations of your study, describe future directions for research and recommendations.

In some disciplines use of Discussion or 'Conclusion' is interchangeable. It is not mandatory to use both. Please refer to Journal-level guidance for any specific requirements.

Declarations

Some journals require declarations to be submitted in a standardised format. Please check the Instructions for Authors of the journal to which you are submitting to see if you need to complete this section. If yes, your manuscript must contain the following sections under the heading 'Declarations':

- Funding
- Conflict of interest/Competing interests (check journal-specific guidelines for which heading to use)
- Ethics approval
- Consent to participate
- Consent for publication
- Availability of data and materials
- Code availability
- Authors' contributions

If any of the sections are not relevant to your manuscript, please include the heading and write 'Not applicable' for that section.

References

- Abbott, T.M.C., et al. (2019). Dark Energy Survey Year 1 Results: Constraints on Extended Cosmological Models from Galaxy Clustering and Weak Lensing. *Phys. Rev. D*, 99(12), 123505, https://doi.org/10.1103/PhysRevD.99.123505 arXiv:1810.02499 [astro-ph.CO]
- Babichev, S.A., Ries, J., Lvovsky, A.I. (2002). Quantum scissors: teleportation of single-mode optical states by means of a nonlocal single photon. (Preprint at https://arxiv.org/abs/quant-ph/0208066v1)
- Beneke, M., Buchalla, G., Dunietz, I. (1997). Mixing induced CP asymmetries in inclusive B decays. *Phys. Lett.*, *B393*, 132-142, arXiv:0707.3168 [gr-gc]
- Broy, M. (1992). Software engineering—from auxiliary to key technologies. M. Broy & E. Denert (Eds.), *Software pioneers* (pp. 10–13). New York: Springer.
- Campbell, S.L., & Gear, C.W. (1995). The index of general nonlinear DAES. *Numer. Math.*, 72(2), 173–196,
- Chung, S.T., & Morris, R.L. (1978). Isolation and characterization of plasmid deoxyribonucleic acid from streptomyces fradiae. (Paper presented at the 3rd international symposium on the genetics of industrial microorganisms, University of Wisconsin, Madison, 4–9 June 1978)
- Geddes, K.O., Czapor, S.R., Labahn, G. (1992). Algorithms for Computer Algebra. Boston: Kluwer.
- Hamburger, C. (1995). Quasimonotonicity, regularity and duality for nonlinear systems of partial differential equations. *Ann. Mat. Pura. Appl.*, 169(2), 321–354,
- Hao, Z., AghaKouchak, A., Nakhjiri, N., Farahmand, A. (2014). Global integrated drought monitoring and prediction system (gidmaps) data sets. (figshare https://doi.org/10.6084/m9.figshare.853801)
- Seymour, R.S. (Ed.). (1981). Conductive Polymers. New York: Plenum.
- Slifka, M.K., & Whitton, J.L. (2000). Clinical implications of dysregulated cytokine production. J. Mol. Med., 78, 74–80, https://doi.org/10.1007/s001090000086

- Smith, S.E. (1976). Neuromuscular blocking drugs in man. E. Zaimis (Ed.), Neuromuscular junction. Handbook of experimental pharmacology (Vol. 42, pp. 593–660). Heidelberg: Springer.
- Stahl, B. (2020). deepSIP: deep learning of Supernova Ia Parameters. 0.42. Astrophysics Source Code Library. ascl:2006.023