

# Instructions for authors (EPJ N template)



Your manuscript must be in English, using UK spelling. Setting of paper size is **DINA4-size only**. The top, left and right margins are 2.5 cm while the bottom margin is 2 cm. The typeface throughout the text is **Arial**.

Please note that while this type of article has a review nature and a higher level of tolerance towards content, which is not original, is shown, we operate a systematic check of all EPJ N submissions via a plagiarism software. For this reason, we invite you to avoid using cut and pasted text as much as possible. Also, to prevent any possible misunderstanding, please let the Editor know if your work already appears (in some form, thesis or else to be specified) in a preprint server, an Institutional repository or a given website. Sources of original works should be listed in the reference section.

The length of your article should be between **10-15 pages**, including the title page, all tables and figures and the references. Any excess in this length limit should be preliminary agreed with the guest editors



## 3.1 Title

Title should be simple, concise and informative.

Please use as format: ARIAL, 14 PT, all caps.

## 3.2 Author(s) name(s) and affiliations

A list of all authors, (format: ARIAL, 12 PT, all caps) as well as corresponding addresses, (format: *10 pt, italics*) should be provided. Addresses should contain all information necessary for an effective mail delivery.

NB: E-mail and telephone numbers should also be provided separately to speed up communication between Editorial Office and authors.

## 3.3 Abstract

An abstract should accompany each manuscript; it should be completely written as a single paragraph, self-contained, describing the key elements of your contribution & its conclusions. Its length should not exceed 200 words. Mathematical expressions should be avoided. For the format: the text should be typeset in block mode. For this paragraph the font size is 10 pt, with left and right indents of 1.5 cm.

## 3.4 Main body of the paper

The body of the paper should be divided into sections starting with an **Introduction** and ending with a **Conclusion**. Sections (format of section headers: 12 pt, bold) should be numbered with Arabic (not roman) numerals. Subsections (second level) should be numbered 1.2, 1.3, etc., and sub-subsections (third level) 1.1.1, 1.1.2, etc. All sections must have a short descriptive title, which should be capitalized.

Equations, tables, figures, and references should follow a sequential numerical scheme in order to ensure a logical development of subject matter. They should be inserted into the text at the appropriate place. They should be clearly identified with a caption.

### 3.5 Conflict of interests

This section is not mandatory. If applicable, it should be inserted before the Acknowledgments. This section shall describe whether yes or no, each individual author has to disclose any kind of **conflict of interests**.

### 3.6 Acknowledgments

This section must be concise and without subdivisions. Mention here colleagues and grants if relevant. The name of all individuals not meeting all of the criteria necessary for authorship should be provided. Examples of activities that alone (without other contributions) do not qualify a contributor for authorship are acquisition of funding; general supervision of a research group or general administrative support; and writing assistance, technical editing, language editing, and proofreading.

### 3.7 Funding

This section is not mandatory. If applicable, it should be inserted before the Data availability statement.

### 3.8 Data availability statement

This section is not mandatory. Authors should use this section to indicate whether or not their manuscript has associated data and where positive, if the data has been deposited in a data repository [whose location should be disclosed here].

### 3.9 Author contribution statement

Authors should use this section to outline their individual contributions to the article with the corresponding roles. The following format could be used : Author A performed the calculations, processed the data, and wrote the manuscript. Authors B and C performed software architecture and maintenance for the tool name and reviewed the manuscript. Author D developed the method and prepared computer software that implemented it.

### 3.10 Appendices

Appendices should be numbered with A, B, etc. if there are more than one appendix (**Appendix A** or **Appendix A: Complex developments**, when there is a title). The appendix equations should be numbered consecutively, but separately from those in the main body of the paper ((A1), (A2), etc.). In each appendix equations will be numbered separately ((B1), (B2), etc.).

### 3.11 References

It is important to confirm the accuracy of bibliographic information in references. This has become more important with the online version. Hyperlinks will be programmed to enable readers to jump directly to the material cited. If your reference citations are incorrect or incomplete (e.g., missing author name, or an incorrect volume number or page), the associated hyperlinks may fail, and the usefulness of your paper in the online environment may be diminished. Authors should also refrain as much as possible to refer to material that does not have a perennial requirement.

References should be cited in the text by placing sequential numbers in brackets (for example, [1], [2,5,7], [8--10]) according to the Vancouver referencing style, i.e. numbered in the order in which they are cited. Authors may be cited in the text by name, but without initials. Authors should use the forms below in the final reference list.

For more information, please refer to: <https://www.epj-n.org/author-information/instructions-for-authors>

### **Journal articles**

1. E. Le Mire, E. Burger, B. Iooss, C. Mai, Prediction of crack propagation kinetics through multipoint stochastic simulations of microscopic fields, *EPJ Nuclear Sci. Technol.* **7**, 4 (2021)
2. L. Brès, N. Gherardi, N. Naudé, B. Rives, Experimental investigations of a remote atmospheric pressure plasma by electrical diagnostics and related effects on polymer composite surfaces, *Eur. Phys. J. Appl. Phys.* **95**, 30801 (2021)
3. D.B. Saakian, Th.M. Nieuwenhuizen, *J. Phys. I France* **7**, 1513 (1997); J.M. Smith, *Nucl. Phys. A* **195**, 123 (2008)
4. P. van der Schoot, *J. Phys. II France* **6**, 1557 (1996)

### **Journal articles accepted for publication**

5. J.M. Smith, *Eur. Phys. J. Appl. Phys.* (to be published)

### **Books**

6. J. Couturier, Y.H. Abou and E. Grolleau, in *Element of nuclear safety*, (EDP Sciences, Les Ulis, 2019)

### **Proceedings**

7. J. Rhodes, K. Smith, D. Lee, CASMO-5 development and applications, in *Proceedings of the PHYSOR-2006 conference, ANS Topical Meeting on Reactor Physics, Vancouver, BC, Canada, September 10-14, September 10-14 (2006)*, B144

### **Reports and Theses**

8. V. Lamirand, *Installation nucléaire CROCUS - rapport de sécurité*, Tech. rep., LRS Internal Report No 15-48 (2016)
9. S. Azzaoui, *SCALE-6 fuel depletion analyses: Application to the ARIANE program*, Master Thesis, SCK-CEN, Belgium, 2010
10. K. Ambrožič, L. Snoj, *Characterization of gamma field in the JSI TRIGA reactor*, Ph.D. thesis, University of Ljubljana, Faculty of Mathematics and Physics (2020)

### **Others**

11. J.M. Smith (private communication)
12. J.M. Smith (unpublished)

More specific information:

## **Figures**

Authors are encouraged to submit colour illustration: *EPJ N* is an all-electronic journal and all figures will appear in colour at no additional costs.

Each figure should be cited in the text. They must conform to the usual quality criteria given below. Authors should remember that the final published quality of illustrations can never be better than the quality of the original artwork.

- *Good quality figures have the following characteristics:*
  - Lines, letters, numbers and symbols should have uniform strength and contrast, they should be appropriately oriented on the axes and consistent with those used in the text.
  - Authors should avoid including any unnecessary text around a figure, such as captions, figure numbers, author or file names. Captions for all figures should be written as a clear, separate list in a dedicated area of the article.

For more information, please refer to: <https://www.epj-n.org/author-information/instructions-for-authors>

- Parts of diagrams, graphs, ... should be clearly indicated by different types of hatching. Grey scales, which might get difficult to distinguish after reducing, or which often disappear during the printing process, should be avoided. Also, parts a, b, c, etc. of a figure should be in separate files.
- Standard symbols which should be used inside a figure are:  $\square$ ,  $\triangle$ ,  $\circ$ ,  $+$ ,  $\cdot$ ,  $\star$ ,  $\blacksquare$ ,  $\blacklozenge$ ,  $\times$ .
- Labelling should be uniform in size throughout all figures. Lettering should not be pasted on to the figures as it may easily become detached as a result of handling.
- After photographic reduction, all details of the figures should still be visible and all labelling legible.
- *Scaling of artwork*  
Figures are often reduced to 50% of their original size. Very few figures have a final size outside the range of 40--85%. The final size of capital letters or numerals in a figure usually lies within the range 1.6--2.3 mm to avoid any disproportion between figure/text character sizes.

**Using third party material** - such as figures or tables from another source:

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## Mathematical material

A standard typesetting procedure is followed by the production staff. Authors should observe the following simple rules to help clarify the content of mathematical material.

- The text should make clear distinctions between physical variables, mathematical symbols, units of measurement, abbreviations, chemical formulas, etc. Hand-written Greek letters should be written fully in the margin at the first place of mention.
- Equations must be typewritten in papers submitted as hard copy and be sequentially numbered. The number should appear in parentheses at the right-hand side of the page and referred to in the text as, *e.g.* (7).

*Caution:* Mathematical expressions often need to be displayed on two or more lines ("broken") because of the line length limitation of *EPJ N* two-column layout. There are situations where breaking an equation is *not possible or appropriate* (long fractions or matrices). The production department reserves the possibility to place unbroken equations at the bottom or at the top of the concerned page(s), according to the page-layout to be defined by the production staff, with an appropriate citation in the text. For example:

*See equation (8) below (above)*

- Authors who have access to italic and boldface should use these to identify physical or mathematical variables. Variables are to be set in normal italic. Physical constants such as the speed of light or the Boltzmann constant are also set in normal italic.
- Italic type should be avoided for the following:
  - Units of measurement (*e.g.*, km, g, K, cm<sup>-2</sup>, s<sup>-1</sup>).
  - Mathematical signs such as sin, cos, log, exp, etc.
  - Chemical formulas.