

## Instructions for authors

### Manuscript Submission

Submission of a manuscript implies: that the work described has not been published before; that it is not under consideration for publication anywhere else; that its publication has been approved by all co-authors, if any, as well as by the responsible authorities—tacitly or explicitly—at the institute where the work has been carried out. The publisher will not be held legally responsible should there be any claims for compensation.

### Permissions

Authors wishing to include figures, tables, or text passages that have already been published elsewhere are required to obtain permission from the copyright owner(s) for both the print and online format and to include evidence that such permission has been granted when submitting their papers. Any material received without such evidence will be assumed to originate from the authors.

### Online Submission

Authors should submit their manuscripts online. Electronic submission substantially reduces the editorial processing and reviewing times and shortens overall publication times. Please click on “Submit online” and upload all of your manuscript files following the instructions given on the screen. In case of problems or queries during the submission process, please contact the Editorial Office, [epjc@sif.it](mailto:epjc@sif.it). The Editorial Office will also assist you with other forms of electronic or hard-copy submission if online submission is not possible.

### The Acceptance Stage

The Editor-in-Chief will send an acceptance letter to the corresponding author and, at the same time, will ask for electronic files of text and figures. All portions of the final manuscript should be sent to the production department according to the instructions mentioned in the acceptance letter from the Editor-in-Chief.

### How to prepare a manuscript

#### Title Page

The title page should include:

- The name(s) of the author(s)
- A concise and informative title
- The affiliation(s) and address(es) of the author(s)
- The e-mail address of the corresponding author

#### Abstract

Please provide an abstract of 150 to 250 words. The abstract should not contain any undefined abbreviations or unspecified references. Mathematical expressions should be avoided if possible.

#### Text

##### Text Formatting

Manuscripts should be submitted in LaTeX. Please use the  $\LaTeX$ 2 $\epsilon$  macro package, designed especially for EPJ. It is available at [www.e-publications.org/springer/support/epjc/svjour3-epjc.zip](http://www.e-publications.org/springer/support/epjc/svjour3-epjc.zip).

The submission should include the original source (all style files and figures) and a PDF version of the compiled output.

### Main Body of the Paper

The body of the paper should be divided into sections. Sections should be numbered with arabic (not roman) numerals. Subsections (second level) should be numbered 1.2, 1.3, etc., and subsubsections (third level) 1.1.1, 1.1.2, etc. Appendices should be numbered A, B, etc. All sections must have a short descriptive title. Equations, tables, figures, and references should follow a sequential numerical scheme in order to ensure a logical development of subject matter.

### Mathematical Material

A standard typesetting procedure is followed by the production staff. For details, see the internationally agreed standards adopted by the International Union of Pure and Applied Physics (IU-PAP) or defined by the International Organization of Standardization (ISO).

### Abbreviations

Abbreviations should be defined at first mention and used consistently thereafter.

### Footnotes

Footnotes can be used to give additional information, which may include the citation of a reference included in the reference list. They should not consist solely of a reference citation, and they should never include the bibliographic details of a reference. They should also not contain any figures or tables. Footnotes to the text are numbered consecutively; those to tables should be indicated by superscript lowercase letters (or asterisks for significance values and other statistical data). Footnotes to the title or the authors of the article are not given reference symbols. Always use footnotes instead of endnotes.

### Acknowledgments

Acknowledgments of people, grants, funds, etc. should follow the main body of the paper and should precede any appendix. The names of funding organizations should be written in full.

### Appendices

Appendices, especially if there are more than one of them, should be labelled A, B, etc. (Appendix A or Appendix A: Complex developments, when there is a title). Equations in appendices should be numbered consecutively, but separately from those in the main body of the paper (A<sub>1</sub>), (A<sub>2</sub>), etc. In each appendix equations should be numbered separately (B<sub>1</sub>), (B<sub>2</sub>), etc.

### References

#### Citation

Reference citations in the text should be identified by numbers in square brackets. Some examples:

1. Negotiation research spans many disciplines [3].

2. This result was later contradicted by Becker and Seligman [5]. (Do not use initials here.)
3. This effect has been widely studied [1–3, 7].

### Reference List

The list of references should only include works that are cited in the text and that have been published or accepted for publication. Personal communications and unpublished works should only be mentioned in the text. Do not use footnotes or endnotes as a substitute for a reference list.

The entries in the list should be numbered consecutively.

### Journal articles

1. S. Chekanov et al. (ZEUS Collaboration), *Eur. Phys. J. C* **42**, 1 (2005)
2. P.C. Brans, U.G. Meissner, *Eur. Phys. J. C* **40**, 97 (2005)

### Article by DOI

N. Kersting, *Eur. Phys. J. C* (2009). doi:[10.1140/epjc/s10052-009-1063-6](https://doi.org/10.1140/epjc/s10052-009-1063-6)

### Books

1. J.M. Smith, *Molecular Dynamics*, 2nd edn. (Springer, Berlin, Heidelberg, 1987)
2. J.M. Smith, in *Molecular Dynamics*, ed. by C. Brown, 2nd edn. (Les Éditions de Physique, Les Ulis, 1987)
3. J.M. Smith, in *Molecular Dynamics*, ed. by C. Brown, 2nd edn. (Springer, Berlin, Heidelberg, 2009 in press)

### Proceedings

1. J.M. Smith, in *Proceedings of the International Conference on Low Temperature Physics, Madison, 1975*, ed. by C. Brown (Les Éditions de Physique, Les Ulis, 1975), p. 201

### Online document

1. J. Cartwright, Big stars have weather too. (IOP Publishing PhysicsWeb, 2007), <http://physicsweb.org/articles/news/11/6/16/1>. Accessed 26 June 2007

Always use the standard **abbreviation** of a journal's name according to the ISSN List of Title Word Abbreviations, see [www.issn.org/2-22661-LTWA-online.php](http://www.issn.org/2-22661-LTWA-online.php).

### Tables

All tables are to be numbered using Arabic numerals. Tables should always be cited in text in consecutive numerical order. For each table, please supply a table caption (title) explaining the components of the table.

Identify any previously published material by giving the original source in the form of a reference at the end of the table caption.

Footnotes to tables should be indicated by superscript lower-case letters (or asterisks for significance values and other statistical data) and included beneath the table body.

## Artwork

### Electronic Figure Submission

Supply all figures electronically.

Indicate what graphics program was used to create the artwork.

For vector graphics, the preferred format is EPS; for halftones, please use TIFF format. MS Office files are also acceptable.

Vector graphics containing fonts must have the fonts embedded in the files.

Name your figure files with "Fig" and the figure number, e.g., Fig1.eps.

### Line Art

Definition: Black and white graphic with no shading.

Do not use faint lines and/or lettering and check that all lines and lettering within the figures are legible at final size.

All lines should be at least 0.1 mm (0.3 pt) wide.

Scanned line drawings and line drawings in bitmap format should have a minimum resolution of 1200 dpi.

Vector graphics containing fonts must have the fonts embedded in the files.

### Halftone Art

Definition: Photographs, drawings, or paintings with fine shading, etc.

If any magnification is used in the photographs, indicate this by using scale bars within the figures themselves.

Halftones should have a minimum resolution of 300 dpi.

### Combination Art

Definition: a combination of halftone and line art, e.g., halftones containing line drawing, extensive lettering, color diagrams, etc. Combination artwork should have a minimum resolution of 600 dpi.

### Color Art

Color art is free of charge for online publication.

If black and white will be shown in the print version, make sure that the main information will still be visible. Many colors are not distinguishable from one another when converted to black and white. A simple way to check this is to make a xerographic copy to see if the necessary distinctions between the different colors are still apparent.

If the figures will be printed in black and white, do not refer to color in the captions.

Color illustrations should be submitted as RGB (8 bits per channel).

### Figure Lettering

To add lettering, it is best to use Helvetica or Arial (sans serif fonts).

Keep lettering consistently sized throughout your final-sized artwork, usually about 2–3 mm (8–12 pt). Variance of type size within an illustration should be minimal, e.g., do not use 8-pt type on an axis and 20-pt type for the axis label.

Avoid effects such as shading, outline letters, etc.

Do not include titles or captions into your illustrations.

### Figure Numbering

All figures are to be numbered using Arabic numerals.

Figures should always be cited in the text in consecutive numerical order.

Figure parts should be denoted by lowercase letters (a, b, c, etc.).

If an appendix appears in your article/chapter and it contains one or more figures, continue the consecutive numbering of the main text. Do not number the appendix figures, "A1, A2, A3, etc." Figures in online appendices (Electronic Supplementary Material) should, however, be numbered separately.

### Figure Captions

Each figure should have a concise caption describing accurately what the figure depicts. Include the captions in the text file of the manuscript, not in the figure file.

Figure captions begin with the term Fig. in bold type, followed by the figure number, also in bold type.

No punctuation is to be included after the number, nor is any punctuation to be placed at the end of the caption.

Identify all elements found in the figure in the figure caption; and use boxes, circles, etc., as coordinate points in graphs.

Identify previously published material by giving the original source in the form of a reference citation at the end of the figure caption.

### Permissions

If you include figures that have already been published elsewhere, you must obtain permission from the copyright owner(s) for both the print and online format. Please be aware that some publishers do not grant electronic rights for free and that Springer will not be able to refund any costs that may have accrued to receive these permissions. In such cases, material from other sources should be used.

### Electronic Supplementary Material

Electronic supplementary material will be published in the online version only. It may consist of information that cannot be printed: animations, video clips, sound recordings. Information that is more convenient in electronic form: sequences, spectral data, etc. Large original data, e.g. additional tables, illustrations, etc.

### Submission

Supply all supplementary material in standard file formats.

To accommodate user downloads, please keep in mind that larger-sized files may require very long download times and that some users may experience other problems during downloading.

### Audio, Video, and Animations

Always use MPEG-1 (.mpg) format.

### Text and Presentations

Submit your material in PDF format; .doc or .ppt files are not suitable for long-term viability.

A collection of figures may also be combined in a PDF file.

### Spreadsheets

Spreadsheets should be converted to PDF if no interaction with the data is intended.

If the readers should be encouraged to make their own calculations, spreadsheets should be submitted as .xls files (MS Excel).

### Specialized Formats

Specialized formats such as .pdb (chemical), .wrl (VRML), .nb (Mathematica notebook), and .tex can also be supplied.

### Collecting Multiple Files

It is possible to collect multiple files in a .zip or .gz file.

### Numbering

If supplying any supplementary material, the text must make specific mention of the material as a citation, similar to that of figures and tables (e.g., "... as shown in Animation 3").

Name your files accordingly, e.g., Animation3.mpg.

### Captions

For each supplementary material, please supply a concise caption describing the content of the file.

### Processing of Supplementary Files

Electronic supplementary material will be published as received from the author without any conversion, editing, or reformatting.

### Proof Reading

The purpose of the proof is to check for typesetting or conversion errors and the completeness and accuracy of the text, tables and figures. Substantial changes in content, e.g., new results, corrected values, title and authorship, are not allowed without the approval of the Editor. After online publication, further changes can only be made in the form of an Erratum, which will be hyperlinked to the article.