



## General Guidelines

Articles for publication should be submitted in duplicate (one hard-copy plus an electronic copy) to the **Editorial Executive, Research Trends, T.C. 17/250(3), Chadiyara Road, Poojapura, Trivandrum 695 012, India**. Articles which are under consideration for publication in other journals/periodicals or which have already been published elsewhere should not be submitted. Articles should be written in English. Usage of correct English is the responsibility of the author. Before submission the manuscript should be proof-read for any possible linguistic and typographical errors. The manuscript should be submitted on numbered sheets.

## PRESENTATION

1) **Title Sheet:** The title of the article, name(s) of the author(s) and the address(es) of the institution(s) where the work has been carried out should be typed on a separate sheet of paper. These details will be typeset to a standard format by the publisher. The name of the journal to which the article is submitted should be mentioned in the title sheet. The complete address, telephone number, fax number and e-mail ID (if available) of the corresponding author should also be given in the title sheet. In addition to the title of the article, a *running title* (short title) not exceeding 60 characters including spaces should be given in the title sheet.

2) The rest of the sections of the article should be arranged in the following order:

1. A short ABSTRACT not exceeding 250 words
2. KEYWORDS
3. A short INTRODUCTION
4. For review articles, authors have full freedom in titling and arranging the sections following the INTRODUCTION. Whereas for original articles, we recommend the material following the INTRODUCTION to be brought under the section heads MATERIALS AND METHODS, RESULTS, DISCUSSION (or RESULTS AND DISCUSSION combined) and CONCLUSION
5. ACKNOWLEDGEMENTS, if any
6. REFERENCES should come as the last section of the article.

Authors should check that every reference in the text appears in the list of references and vice versa. In the text, references to other papers or books should be cited using consecutive numbers in parenthesis (e.g.: [1, 2]) and they should be listed numerically in the last section.

Examples for citing references:

1. Nicotra, F., Panza, L. and Russo, G. 1987, *J. Org. Chem.*, 52, 5627.
2. Bluman, G. W. and Kumei, S. 1989, *Symmetries and Differential Equations*, Springer, New York.
3. Soker, N. and Sarazin, C. L. 1988, *Cooling Flows in Clusters and Galaxies*, A. C. Fabin (Ed.), Kluwer, Dordrecht, 367.

7. ABBREVIATIONS if any may be given either after the ABSTRACT section or just prior to the REFERENCES section.

## PAGE LAYOUT

The entire text including the ABSTRACT and REFERENCES should be submitted typed in single-columns of width NOT EXCEEDING 7.2 cm (justified or unjustified) and of any depth. Preparation of the camera-ready double-column layout will be handled by our technical personnel.

## Text formatting details

**Fonts:** Please use Times New Roman, Arial, Times Roman or Times fonts as much as possible.

**Font size:** Fonts in general should have a size of 10 points. Size of superscript and subscript characters should not be less than 9 points. Section headings (ABSTRACT, INTRODUCTION etc.) should be typed in 10 point bold font and be placed on a separate line. Scientific names should be in *10 point italics*.

**Line spacing:** The manuscript should be typed with single spacing between the lines.

## Preparation of Tables

**Numbering:** All the tables should be numbered consecutively using Arabic numerals. The caption to each table should be given with the respective table and should be numbered. Care should also be taken to make sure that all the tables are referred to in the text. Tables adapted from previously published work should accompany consent letters from the original publisher for re-publication.

**Font size:** The fonts used in tables should not be of size less than 10 points or 1 - 2 mm. If the table contains illustrations, for example structural formulae, the thickness of the lines should be at least 1 point.

**Dimensions:** Dimensions of tables should not exceed a width of 15 cm and a height of 20 cm inclusive of the table-caption. If the table exceeds these dimensions, it should be properly split such as to be accommodated in more than one page. Tables can be submitted either on separate sheets or be incorporated into the text itself.

## Preparation of figures

Figures should be limited to material essential for the text.

**Numbering:** All the figures should be numbered consecutively using Arabic numerals. The legend to figures should appear directly below the respective figures. Please make sure that all the figures are referred to in the text.

**Dimensions:** Dimensions of figures should not exceed a width of 15 cm and a height of 20 cm. Figures may be submitted either on separate sheets or be incorporated into the text itself.

**Copyright issues:** Figures adapted or taken from data sources of previously published work should accompany consent letters from the original publisher for re-publication.

### **1. Line drawings**

Line drawings including graphs, schemes, structures, etc. should be submitted as sharp high quality laser or digital print-out. All lines in the line drawings should be of uniform thickness, and should not be less than 1½ points or 0.5 mm. The alphabetic and numeric characters used in the line drawings should not be less than 10 points in size.

### **2. Photographs/Micrographs**

Photographs and micrographs should exhibit high contrast. They should be numbered correctly on the reverse, and their legends should be given on a separate sheet of paper with correct numbering. As far as possible, the size of the photographs/micrographs should be limited to the minimum. This is to ensure maximum utilization of available print space. Photographs and micrographs that are to appear as a group should be mounted together.

### **3. Colour figures**

Multicolour photographs/illustrations are acceptable, but would involve a reproduction charge. The electronic version of colour figures may be prepared and submitted in RGB (Red, Green, Blue) colourspace. RGB files would be used when the article is made available on the web and on CD-ROMs. However for the print process, RGB files will be converted to CMYK (Cyan, Magenta, Yellow, Black) colourspace. In addition to the electronic version, *a high quality original print of the multicolour figures should always be submitted.*

**Printing colour figures in black & white:** We strongly recommend that figures to be printed in black-and-white be submitted in black-and-white and not in colour. Figures supplied in colour will have to be converted to greyscale when printed in black-and-white. When converted to greyscale, colours that display a clear difference may appear very similar to each other. This is true both for line and photographic images. The author should check the results of such a conversion prior to submission to make sure the figures exhibit the required contrast when printed in black-and-white.

**Scanning and Conversion resolution for figures:** Make sure that any figure placed into MS Office applications is at the appropriate minimum resolution: 300 dpi for photographs & micrographs, 500 dpi for combinations of photographs, micrographs & line drawings and 600 dpi for line drawings and greyscale figures.

### **Submission of Electronic version of the manuscript**

The authors must submit an electronic version of their manuscript in addition to the hard-copy version. This is to facilitate the generation of PDF and XML versions of the article for the purpose of making the journal available in multiple media formats such as print, web databases and CD-ROM.

Manuscripts should be submitted in one of the following formats.

- Microsoft Word document
- Rich Text
- Adobe Acrobat PDF. If the manuscript is submitted in PDF format, the source file should also be submitted along with it.

Manuscripts may be submitted either by email (as email attachment) or on CD-ROM by regular mail.

Prior to submission, please check the disk with a malware/virus detection program. Label the CD-ROM with the first author's name. On the CD label, provide the name and version of the platform used, the software used, and the names of files it contains.

**Presentation and layout:** Please use Times New Roman, Arial, Times Roman or Times fonts as much as possible. Other fonts (e.g. Chinese, Japanese and Korean (CJK) character fonts) may cause the PDF conversion to fail. Most formatting codes will be removed or replaced while processing the article. So there is no need for you to apply excessive layout styling. Avoid options such as automatic word-breaking, automatic paragraph numbering (especially for numbered references), double-columns, etc. However, do use bold-face, italics, subscripts, superscripts, etc. Do not include any page-formatting instructions in the file. Formatting instructions for placement of figures, tables, etc. should only be marked on the hard-copy version in pencil. All of the text, tabular material and figures if any should be in one file, with the complete text first, followed by the tabular material and figures. If figures are present, they may as well be submitted as separate files in addition to the main single file of the manuscript. Ensure that all characters are correctly represented throughout the manuscript; for example, 1 (ones) and l (ells), 0 (zeros) and O (ohs). Carefully check the final copy for consistent notation and correct spelling. Our PDF conversion software will faithfully translate any errors to the typeset copy. The general presentation and layout of the manuscript should be done as discussed earlier under the sections 'PRESENTATION' and 'PAGE LAYOUT'.

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