

## Guidelines for Authors

**Resonance – journal of Science Education** is targeted primarily at undergraduate students and teachers. The journal invites articles in various branches of science and emphasizes on a lucid style that will attract readers from diverse backgrounds. A helpful rule would be that at least the opening one-third of the article should be easily understood by a general readership.

Articles on topics within the undergraduate curriculum, especially those which students often consider difficult to understand, new classroom experiments, emerging techniques and ideas, and innovative procedures for teaching specific concepts are

particularly welcome. The submitted articles should not have been published elsewhere.

**Resonance** also includes **Book Reviews**. The following types of books will be considered: (1) textbooks in subjects of interest to the journal; (2) general books in science which should be brought to the attention of students/teachers; (3) classic literature on science; (4) books on educational methods. (5) Websites or CDs related to science education. Books reviewed should generally be affordable to students/teachers (price range Rs. 50 to 300). New books will get preference. Books received by the academy office will be circulated among the editors who will then decide which are to be reviewed.

Upon submission of a manuscript for publication, the author, or in the case of multiple authors the corresponding author, is required to complete, sign and send to the editorial office of the journal by email or post the Manuscript Submission Form (see form at the end).

Upon acceptance of a manuscript for publication, the author, or in the case of multiple authors the corresponding author, is required to complete, sign and send to the editorial office of the journal by email or post the Authorship Confirmation and Copyright Transfer Form (see ACCT form at the end).

***Please follow the instructions given below while preparing the manuscript. Articles which do not conform to the guidelines will not be considered.***

Authors are encouraged to submit their article in ASCII/MS Word/Latex version in a CD or by email to **resonanc@ias.ernet.in**.

**Title:** Authors are requested to provide a) first title (*should be a precise, 4–7 words technical description of the contents of the article*) and b) second title (*4–10 words, which will attract the general readers' attention*).

**Author(s):** A photograph and a brief biographical sketch (in less than 30 words) should be provided. The author's name and mailing address should also be given. Author's phone number and email address will help in expediting the processing of manuscripts.



**Summary:** Please provide a brief summary (2–4 sentences) of the article highlighting the important points.

**Keywords:** A few keywords must be provided for indexing and information retrieval services.

**Text:** Use simple English. Keep sentences short. Break up the text into logical units, with easily understandable headings and sub-headings. Do not use multiple sub-sections. **Articles should generally consist of 1000–2000 words.**

**Illustrations:** Use figures, charts and schemes liberally. Figures can be in colour. Use good quality computer-generated images, with neat and clear fonts for labels. All figures, including photographs (which must be glossy prints) should be numbered consecutively in Arabic numerals in the order of occurrence in the text. Please try to keep the size of the figures between 4 and 13 cm based on the importance of the figure. Figure captions must be written with care and in some detail. Illustrations and other material from already published sources must be properly credited: ***It is the author's responsibility to obtain permission for reproduction*** (copies of letters of permission should be sent). For details, see Author Guidelines for Figures.

**Tables:** All tables must be numbered consecutively in Arabic numerals (e.g., *Table 1*) in the order of appearance in the text. The tables must be self-contained with a descriptive title. Column headings of tables should be brief. Footnotes to the tables, if any, should be identified by superscript symbols and placed at the bottom of the table.

**Boxes:** Summaries, biographical and historical notes which will enhance the interest of the reader on the main theme can be placed as boxed items. Such a boxed item should fit in a printed page and not exceed 250 words.

**Highlights:** Underline text which can be used as possible highlights in a page.

**Margin Notes/Footnotes:** Should be identified by sequential numerals in the main text. The text of each margin note/footnote should appear at the end of the relevant page.

**Suggested Reading:** Avoid technical references. If some citations are necessary, mention these as part of the text (number them in square brackets e.g., [1]). A list of suggested reading may be included at the end. It should be listed as in the following examples:

***for journals***

[1] S A Shirali, Title of the article, *Resonance*, Vol.6, No.5, pp.29–38, 2001.

***for books***

[2] S K Saxena, *Faunal Diversity in Thar Desert...* Eds. A K Ghosh, Q H Baqri and Ishwar Prakash, Scientific Publishers, Jodhpur, pp.203–214, 1996.

**Layout:** Please place all tables, boxes, illustrations and their captions after the main text of the article with suggested locations marked in the text.



## Guidelines to Authors for Figures

Figures (line diagrams and photographs) should be clear, sharp and of good quality. We will normally use figures as submitted and it is therefore the authors' responsibility to ensure that the scientific details contained in them are correct.

### Please note the following important points:

- ❖ Shading and fill patterns should be avoided wherever possible because diagrams containing them have to be printed as half-tones which may not reproduce well. In graphs if it is necessary to distinguish between various curves, different types of lines, for example, solid, long dashes, large dots, alternate dashes and dots are recommended rather than lines of different thicknesses.
- ❖ When producing colour line illustrations, light colours such as yellow, light green, light blue, light grey, etc., should be avoided as they generally reproduce poorly in a black and white printing process.
- ❖ Quality of reproduction will depend on resolution and size of figures. Low-resolution files do not reproduce well, especially when enlarged. Tone illustrations (in color or in black & white), for e.g., photographs, paintings, etc., should be scanned at a high resolution (800 dpi, if possible). Illustrations that have both line and tone should also be produced at a high resolution. The size of figures provided should be more or less in the final intended size that will appear in the journal, so that resizing can be avoided.
- ❖ Wherever possible figures submitted as electronic files should be tightly cropped to minimize superfluous white space surrounding them. This reduces file sizes and helps the alignment of figures on the printed page.
- ❖ Fonts used should be restricted to standard font families (Times, Helvetica, Courier or Symbol), all letterings should be easy to read (7 or 8 point font size) and the thinnest line should be half a point.

### File formats

In order to get the best results we prefer TIFF files or encapsulated postscript (EPS) for figures. Files in other bitmap formats like BMP, GIF and JPEG are also acceptable. But please note that if the GIF and JPEG files have been downloaded from websites they may not be suitable for printing.



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