

INSTRUCTIONS TO AUTHORS

The manuscript and copies of figures should be submitted in duplicate, together with one set of good quality figure material (for production of the printed figures), to the editor-in-chief, at the following address:

S.M. Hasany, Editor-in-Chief, "The Nucleus", PINSTECH, P.O. Nilore, Islamabad 45650, Pakistan

It will be helpful if the word "NUCLEUS" is written in a corner of the envelope.

Preparation of Manuscripts

Contributions to 'The Nucleus', must be in English and should have an abstract of upto 250 words.

Manuscripts should be typed throughout with single line spacing and wide margins on numbered pages. The lines containing equations/formulae, special characters, and super-/sub-script may be indicated by an arrow in the margin. The title page should contain, in addition to the article title, author(s) names and affiliations, the text of related footnotes, key words, and the text of the abstract without having the word 'Abstract' as heading.

The text of the paper should be organized as follows.

Number one headings: Section titles should be typed in lower-case bold letters with left justification. These should be numbered using Arabic numerals, (e.g. **1. Introduction**)

Number two headings: Subsection titles should be typed in lower case italics with left justification. These should be given decimal numbers consistent with the number of the section (e.g. *1.1. Historical background*).

Formulae in the manuscript should be clearly hand written or typed with a particular consideration given to the characters that may be misinterpreted. If necessary, unusual symbols should be explained using the lead pencil in the margin.

Acknowledgements are optional and may be given before references. No heading is required. The word 'References' is treated as a number one heading, omitting the number.

Tables should be typed on separate sheets appended at the end of the manuscript. In addition to its serial number in Arabic numerals, each table should have a sufficiently detailed heading or caption to explain the data displayed in it.

Figures should be numbered and their captions be listed together on a separate sheet at the end of the manuscript.

References in the text should be numbered consecutively within square brackets, for example:

"Using a similar technique [1]" or "As outlined in ref. [2]" and listed together at the end of the text, for example:

- [1] S.M. Hasany, M.M. Saeed and M. Ahmed, *Talanta* **54** (2001) 89.
- [2] R.L. Fleischer, P.B. Price, and R.M. Walker, *Nuclear Tracks in Solids*, University of California Press, Berkeley, USA (1975).
- [3] H.A. Khan, in: *Radon Monitoring in Radioprotection, Environmental Radioactivity and Earth Sciences*, eds. L. Tommasino, G. Furlan, H.A. Khan and M. Monnin (World Scientific, Singapore, 1990) p. 231.
- [4] M. Ahmed, J.I. Akhtar, M.A. Shaikh, M. Akhtar, M. Iqbal and M.A. Chaudry, *Procd. 6th International Symposium on Advanced Materials*, September 19-23, 1999, Islamabad, Pakistan, p. 333-336.

Please provide upto **six (6) Keywords** and **e-mail address of corresponding author**.

Preparation of Figures

The publisher requires a set of good quality drawings and photographs to produce the printed line figures and half-tone plates in the journal. Photographic copies (glossy prints) of drawings are also acceptable for the line figures if they have been sharply focused and evenly exposed.

Line figures: The drawings or glossy prints supplied for the line figures should be 1.5 – 3 times larger than the printed size of the figures and should contain all the required lettering.

Figures are preferably reduced to a single column width (7.6 cm) unless their complexity, large width to height ratio, or need to display special detail makes a large format necessary (max. printed width = 20 cm). Inappropriately sized lettering on a figure may prevent its reduction to the size optimum for its information content. The lettering used on a drawing should be chosen so that after reduction, the height of numbers and (capital) letters falls within the range 1.2 – 2.4 mm. Care should be exercised in choosing the pen width of machine plotted graphs. Frequently lines in these figures are too fine compared to the area of the figure.

Shaded areas in line figures should be shown by means of cross-hatching (or a matrix of dots) rather than a continuous grey 'wash'. Cross-hatching, after reduction, of density less than ~ 25 lines/cm is satisfactory.

Half-tone plates. The photographs supplied for reproduction should be unmounted unless they form part of a composite figure and they should have a somewhat greater contrast than is desired in the printed figure. It is important that the photographs supplied are not already screened (overprinted with the point-matrix used by printers) or moire patterns will form when they are screened for a second time. When necessary, the top side of a photograph should be marked. A reduction factor should be recommended for a photo when it is not obvious what detail in the photo is of interest.