

TRANSACTIONS of THE INDIAN INSTITUTE of METALS

Guidelines to Authors

Legal requirements

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.

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) 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.

Authors will be asked to transfer copyright of the article to the Society (or grant the Publisher exclusive publication and dissemination rights). This will ensure the widest possible protection and dissemination of information under copyright laws. Authors should also state that they have full control of all primary data and that they agree to allow the journal to review their data if requested.

General

The Transactions of The Indian Institute of Metals is devoted to the publication of original articles that contribute to the advancement of knowledge in any branch of metallurgy, materials science and allied subjects. The articles are published under four categories:

- (i) **Technical Papers (TP)** presenting original work and embodying the results of extensive theoretical, laboratory, plant or field investigations.
- (ii) **Technical Notes (TN)** in the form of short communications (normally not exceeding 1000 words) dealing with new experimental or theoretical findings or comments on topics of current interest. Critical discussion of articles which have appeared in recent issues of the Transactions and replies to such comments will also fall under this category.
- (iii) **Overviews**, roughly the length of a Technical Paper, reflecting the author's perception and views on a topic of his expertise, with emphasis on the Indian materials science and technology scenario wherever relevant.
- (iv) **Review Papers** embodying extensive critical assessment of the state of the art in a topic or theme are also published as and when invited from specialists. Voluntary offers for such reviews are also considered.

Manuscript submission

Manuscripts are submitted to Transactions of IIM online via Editorial Manager. This will allow for quick and efficient processing of your manuscript. Please log directly onto the Editorial Manager site at <http://www.editorialmanager.com/tiim/> and upload your manuscript files following the instructions provided on the screen.

Please note: If you have already registered on Editorial Manger, please use your provided username and password and log in as 'Author' to track your manuscript or to submit a NEW manuscript. (Do not register again as you will then be unable to track your manuscript).

Otherwise, if you are a new author, please click the 'Register' button and enter the requested information. Upon successful registration you will be sent an e-mail with instructions to verify your registration.

If you have any questions or are unable to submit your manuscript online via Editorial Manager, please contact the Editorial Manager at: rsandh@gmail.com

The revised manuscript would also be submitted using the personal user id and password

Editorial process

All manuscripts submitted to the Journal would be peer-reviewed and the decision would be taken after two rounds of assessment following the double-blind approach. The editorial board reserves the right to revise or modify articles to conform to the journal's style. The views expressed in the articles will however, remain the opinion of the authors; the editorial board and the authors accepts no responsibility for these. Articles which do not strictly abide by the Instructions mentioned here are likely to be rejected without further review. After online publication, further changes can only be made in the form of an Erratum, which will be hyperlinked to the article. Any kind of ethical violation may lead to a published retraction of the printed article by the Journal.

Manuscript preparation

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, telephone and fax numbers of the corresponding author

Abstract

Please provide a structured abstract for Original Articles of 100 to 150 words which should be divided into the following sections: Purpose (stating the main purposes and research question), Methods, Results, and Conclusion. The abstract should not contain any undefined abbreviations or references. The first time an abbreviated term is used, spell it out in full and follow with the abbreviation in parentheses – for example: ultrasound (US).

Keywords

Please provide 4 to 6 keywords which can be used for indexing purposes

Text

Organize the text into an introductory section that conveys the background and purpose of the report, and then into sections titled “Materials and Methods,” “Results,” and “Discussion.”

Text formatting

- For submission in Word
- Use a normal, plain font (e.g., 12-point Times New Roman) for text.
- Use italics for emphasis.
- Use the automatic page numbering function to number the pages.
- Do not use field functions.
- Use tab stops or other commands for indents, not the space bar.
- Use the table function, not spreadsheets, to make tables.

- Use the equation editor or MathType for equations.

Note: If you use Word 2007, do not create the equations with the default equation editor but use MathType instead. Save your file in two formats: doc and rtf. Do not submit docx files.

Heading levels, numbering

Please use no more than three levels of displayed headings.

Abbreviations and acronyms

Abbreviations should be defined at first mention and used consistently thereafter

Equation

Please use the standard mathematical notation for formulae, symbols etc.:

- Italic for single letters that denote mathematical constants, variables, and unknown quantities
- Roman/upright for numerals, operators, and punctuation, and commonly defined functions or abbreviations, e.g., cos, det, e or exp, lim, log, max, min, sin, tan, d (for derivative)
- Bold for vectors, tensors, and matrices.

Acknowledgments

Acknowledgments of individuals (other than the authors) should be placed in a separate section before the reference list. The acknowledged individuals should have extended their direct help to the reported study and the names of funding organizations should be written in full.

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 heading. The table title should explain clearly and concisely 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 heading.
- 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.

Figures

- All figures are to be numbered using Arabic numerals.
- Figure parts should be denoted by lowercase letters.
- Figures should always be cited in text in consecutive numerical order.
- For each figure, please supply a figure caption.
- Make sure to identify all elements found in the figure in the caption.
- Identify any previously published material by giving the original source in the form of a reference at the end of the caption.
- All submitted photographs should be in 300 dpi in TIFF format
- All computer-made graphs should be supplied as EPS files, ensure that the lines used in the graphs are more than 0.1 mm, with a minimum resolution of more than 1200 dpi.

Units

SI units with standard abbreviation are mandatory.

References

In the text, reference should be indicated by square brackets. The bibliographic data in the list of references must be complete and should be presented uniformly according to the following examples as appropriate:

1. Prasad Y V R K, Sastry D H, and Vasu K I, *Met Sci J* **4** (1970) 69.
2. Tripathi B D, Kachhawaha J S, and Tare V B, *Trans Ind Inst Met* (in press).
3. Cottrell A H, *Dislocations and Plastic Flow in Crystals*, Clarendon Press, Oxford (1953) p 134.
4. Herman F, and Skillman S, *Atomic Structure Calculations*, Prentice Hall, New Jersey (1963), p 75.
5. Spading D B, in *Turbulent Mixing in Reactive and Nonreactive Flows*, (ed) Murthy S N B, Plenum Press, New York (1976), p 85.
6. Rodriguez P, and Arunachalam V S, in Proc Symp *Non-Ferrous Metals Technology*, (eds) Mannar J E, and Gupta P K, National Metallurgical Laboratory, Jamshedpur (1969), p 193.
7. Mishra R D K, *Investigation of the Behaviour of Scratched Metal Electrodes*, Ph D Thesis, University of Cambridge, England (1983).
8. Attlegard M, Bergstrom Y, Lenasson C G, Norstrom L A, and Roberts W, *An Assessment of Dynamic Strain Ageing in Austenitic Stainless Steels through the Application of a Dislocation Model*, Report IM-993, Swedish Institute of Metal Research, Stockholm (1974).
9. Trepagnier J H, US Patent 2463219 (to E I du Pont de Nemours & Co) 1 March 1949, *Chem Abstr* **43** (1949) 7258.
10. Banerjee D, Unpublished research (1992).
11. Gupta C K, Personal communication (1991).

Please note that names of books or periodicals should be typed in italics. The issue number of a periodical must be omitted unless each issue is paginated separately. Also, page number/chapter number of a book should be indicated unless the whole book is cited as a reference. Names of all authors (and of all editors for edited books and proceedings) must be given.

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

After acceptance

Upon acceptance of your article it will be edited, typeset and sent to the author for his/her final approval.

The finalized articles would be available online at www.springerlink.com and a PDF would be provided to the author for his/her academic use.

Colour in print: Online publication of colour illustrations is free of charge. For colour in the print version, authors will be charged for the actual cost, which would be available on request.

Reprints

Authors will receive five reprints free of charge. Authors can obtain an additional forty five reprints (from the Indian Edition of the journal) at the following rates:

Rs.3000/- for an Overview or Review

Rs.2000/- for a Technical Paper and

Rs.1000/- for a Technical note.



<http://www.springer.com/journal/12666>

Transactions of the Indian Institute of Metals

Editor-in-Chief: K.B.S. Rao

ISSN: 0972-2815 (print version)

ISSN: 0975-1645 (electronic version)

Journal no. 12666