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## Introduction

Nuclear Engineering and Technology (NET), an international journal of the Korean Nuclear Society (KNS), bimonthly publishes articles related to the theory and application of nuclear science and technology. NET publishes review articles, original articles and technical notes. All papers will be reviewed for technical content. It is understood that the paper has neither been published nor currently submitted for publication elsewhere. The copyright of all published papers and notes will be vested in KNS. No article can be published unless accompanied by a signed publication agreement which specifies a transfer of copyright from the authors to KNS and author responsibility for protecting proprietary and third-party rights.

NET covers all fields of nuclear engineering for peaceful utilization of nuclear energy and radiation. Authors should choose one of the following review fields at the time they submit their manuscript: 1) Reactor Physics, 2) Thermal Hydraulics, 3) Nuclear Safety, 4) Nuclear I&C, 5) Nuclear Physics, Fusion, and Laser Technology, 6) Nuclear Fuel Cycle and Radioactive Waste Management, 7) Nuclear Fuel and Reactor Materials, 8) Radiation Applications and Shielding, 9) Nuclear Structural Analysis and Plant Management & Maintenance, 10) Human-Resource Development and Energy Economics & Policy.

## Types of paper

### 2.1. Review Articles

These should aim to provide the reader with a balanced overview of an important and topical subject related to nuclear science and technology, and highlight unresolved questions and future directions. Most reviews are solicited by the editors, but unsolicited submissions may also be considered for publication.

### 2.2. Original Articles

Original articles report the results of original research, and assess its contribution to the body of knowledge in nuclear science and technology.

### 2.3 Technical Notes

Technical Notes report new developments, significant advances, or novel aspects of experimental and theoretical methods and techniques which are relevant for scientific investigations within the scope of the journal. The manuscript title must clearly reflect the technical nature of the manuscript and should start with "Technical Note:".

## Contact details for submission

Manuscripts for Nuclear Engineering and Technology may be submitted online at <http://ees.elsevier.com/NETjournal>. For editorial questions, please contact us via e-mail at [net@kns.org](mailto:net@kns.org), by telephone at +82-42 -826-2614, or by fax at +82-42 -826-2617.



## Before You Begin

### Ethics in publishing

For information on ethics in publishing and ethical guidelines for journal publication see <http://www.elsevier.com/publishingethics> and <http://www.elsevier.com/journal-authors/ethics>.

### Conflict of interest

All authors are requested to disclose any actual or potential conflicts of interest including any financial, personal, or other relationships with other people or organizations within three years of beginning the submitted work that could inappropriately influence, or be perceived to influence, their work. See also <http://www.elsevier.com/conflictsofinterest>. Further information and an example of a Conflict of Interest form can be found at: [http://help.elsevier.com/app/answers/detail/a\\_id/286/p/7923](http://help.elsevier.com/app/answers/detail/a_id/286/p/7923).

### Submission declaration

Submission of an article implies that the work described has not been published previously (except in the form of an abstract, electronic preprint, or as part of a published lecture or academic thesis; see <http://www.elsevier.com/postingpolicy>), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically, without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service CrossCheck <http://www.elsevier.com/editors/plagdetect>.

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*After the accepted manuscript is published in an online issue:* Any requests to add, delete, or rearrange author names in an article published in an online issue will follow the same policies as noted above and result in a corrigendum.

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### **Language services**

Articles should be written in English (using American English spelling) and meet the following basic criteria: the material is original; the information is important; the writing is clear, concise, and grammatically correct; the study methods are appropriate; the data are valid; and the conclusions are reasonable and supported by the data. For non-native English-speaking authors, we suggest that manuscripts be checked and edited by a native English speaker.

### **Submission**

Submission to this journal proceeds totally online and you will be guided stepwise through the creation and uploading of your files. The system automatically converts source files to a single PDF file of the article, which is used in the peer-review process. Please note that even though manuscript source files are converted to PDF files at submission for the review process, these source files are needed for further processing after acceptance. All correspondence, including notification of the editor's decision and requests for revision, takes place by e-mail, removing the need for a paper trail.

### **Submit your article**

Please submit your article via <http://ees.elsevier.com/NETjournal>.

### **Color Illustrations**

All papers are printed in black and white and reproduced in color on the web with no charge to the author. However, an author can request color printing of figures at his/her own expense. Interested author should contact the NET office.



## **Preparation**

### **Use of Word Processing Software**

- Articles should be prepared in the simplest form possible and submitted in Microsoft Word format (\*.doc or \*.docx).

Manuscripts must be typed in English, double-spaced, with 10 or 12-point type. All pages must be numbered consecutively starting from the title page.

- You may use automatic page numbering, but do NOT use other kinds of automatic formatting such as footnotes.
- Put text, references, tables, and legends in one file, with each table on a new page.

## **Article Structure**

There are no strict requirements for the article structure. However, it should include essential elements, such as Introduction, Materials and Methods, Results, and Discussion. Generally, the length of the manuscript should be within 15 printed pages.

### ***Introduction***

The Introduction should provide a brief background to the subject of the paper, explain the importance of the study, and state a precise study question or purpose.

### ***Material and methods***

Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference; only relevant modifications should be described.

### ***Results***

The Results section should comprise the study results presented in a logical sequence, supplemented with tables and/or figures. Take care that the text does not repeat data that are presented in the tables and/or figures.

### ***Discussion***

The Discussion section should be used to emphasize the new and important aspects of the study, place the results in context with published literature, discuss the implications of the findings, and draw the conclusions that follow from the study results.

## **Essential Title Page Information**

The title page should include: category of paper, article title, names (spelled out in full) of all authors, academic degrees, the institutions with which they are affiliated (indicate all affiliations with a superscripted lowercase number after the author's name and in front of the appropriate affiliation), short running title not exceeding 30 characters, separate word count for abstract and text, and the corresponding author details (name, address, phone and fax, e-mail information).

## **Abstract**

An abstract is required for the following article categories: Review Article and Original Article. Abstracts should be no more than 300 words in length. Abstracts for Original Articles should be structured with the section headings: Background, Methods, Results, Conclusion.

## **Keywords**

Keywords (in alphabetical order) are required for the following article categories: Review Article and Original Article.

## **Abbreviations**

Where a term/definition is continually referred to (i.e. 3 times or more in the text), it is written in full when it first appears, followed by the subsequent abbreviation in parentheses (even if it was previously defined in the abstract); thereafter, the abbreviation is used.

## **Acknowledgements**

General acknowledgments for consultations, statistical analysis, etc., should be listed after the main body of text, before the references, including the names of the individuals involved. All financial and material support for the research and the work should be stated clearly explicitly.

## Nomenclature and Units

Current standard international nomenclature for genes should be adhered to. Genes should be typed in italic font and include the accession number.

## Artwork

### **Electronic artwork**

#### *General points*

- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the fonts used if the application provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
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Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

EPS (or PDF): Vector drawings, embed all used fonts.

TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.

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#### **Please do not:**

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and a limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

Figures must be in numerical order using Arabic numerals in the order of their citation in the text. Figures should be uploaded as separate files, not embedded in the manuscript file.

### **Color Artwork**

Please note that the cost of color illustrations will be charged to the author.

## Illustration services

Elsevier's WebShop (<http://webshop.elsevier.com/illustrationservices>) offers illustration services to authors preparing to submit a manuscript but concerned about the quality of the images accompanying their article. Elsevier's expert illustrators can produce scientific, technical, and medical-style images, as well as a full range of charts, tables, and graphs. Image 'polishing' is also available, where our illustrators take your image(s) and improve them to a professional standard. Please visit the website to find out more.

### **Figure Captions**

Figure legends should be submitted for all figures. They should be brief, specific, and placed on a separate sheet after the reference section

## Tables

Tables are numbered consecutively, in the order of their citation in the text. Table legend example: **Table 1** Demographic characteristics of patients [note: "**Table 1**" in bold font with no end period; no end period after legend]. Shortening of some words inside the table (NOT in the table legend): year(s) -> yr; month(s) -> mo;

day(s) -> d; hour(s) -> hr; minute(s) -> min; second(s) -> sec; and -> &. Use en dashes for empty entries. Footnotes are indicated using these symbols (in order of appearance): \*, †, ‡, §, ||, ¶, \*\* [note: when more than 10 footnotes, use superscripted lowercase letters]. Abbreviations used in the text, even when already defined in the text, should be defined and placed after the footnotes and presented like in this example: CT, computed tomography; MRI, magnetic resonance imaging. [note: the use of "," with a space on either side, semi-colon to separate, and a period after the last].

## References

Authors are responsible for the accuracy and completeness of their references and for correct text citation.

### **Citation in text**

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

### **Reference style**

References should indicate references by number(s) in square brackets in line with the text. The actual authors can be referred to, but the reference number(s) must always be given. Number the references (numbers in square brackets) in the list in the order in which they appear in the text.

### **Examples:**

Reference to a journal publication:

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51–59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

## Submission Checklist

A cover letter. It must include your name, address, telephone and fax numbers, e-mail address, and state that all authors have contributed to the paper and have never submitted the manuscript, in whole or in part, to other journals

A conflict of interest disclosure statement (see relevant section above).

Where material has been reproduced from other copyrighted sources, the letter(s) of permission from the copyright holder(s) to use the copyrighted sources must be supplied.



**After Acceptance**

## Use of the Digital Object Identifier

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