

1. Policy and Submission of Manuscripts

The Walailak Journal of Science and Technology (WJST), is a peer-reviewed journal covering all areas of science and technology, launched in 2004. It is published four times a year by the Institute of Research and Development of Walailak University. The scope of the journal includes the following areas of research:

- Agriculture
- Biological sciences
- Health sciences
- Physical sciences
- Engineering
- Information and communications technology

Articles of high quality and originality are encouraged. Three types of articles are accepted for publication:

Full papers are articles that present a significant contribution to a development of an area of research. Ideally these should be no more than 15 typeset pages.

Short communications are brief reports on high impact results. They should be no more than 8 typeset pages.

Minireviews are intended to provide a concise, **high quality** overview of a selected topic and ideally should be no more than 20 typeset pages long. Please note that as of 2012 only 2 minireviews will be published per issue.

Manuscripts should be written in English and submitted online at wjst.wu.ac.th. Authors should note that submission is now only available through the online submission system.

Once received, all papers will be subject to peer review by experts in the field. We encourage authors to submit the names of four referees suitable to review the work to aid in the peer review process. We aim to review all papers within 4-6 weeks and if accepted the paper will appear in the next available issue of the journal.

Please note that articles previously published as proceedings in a conference are only acceptable for publication providing that less than 50 % of the text was published in the proceeding. A reference to the earlier proceeding **must** be included in the article.

2. Manuscript Preparation

Authors are encouraged to download the Walailak Journal template at wjst.wu.ac.th when preparing their manuscript. In the case of traditional submissions, the manuscript should be double-spaced and in Times New Roman, 12 pt with a 1-inch margin around a standard A4 page. Manuscripts should be arranged as follows:

2.1 Title page

The *title page* should include:

1. A concise and informative title. In preparing the title, try to avoid abbreviations and complex symbols. Authors are also reminded to use easily searchable terms in their titles to increase the ease with which articles may be found by readers.
2. Authors' names.
3. Names and addresses of the institution of the authors.
4. A *running title* (an abbreviated form of the title) not longer than 40 letters and spaces.

5. E-mail address of the corresponding author.

2.2 Abstract

The *abstract* must be no more than 250 words and should be concise and include only the most important aspects of the study clearly indicating what has been achieved. The abstract must be independent of the main text and understandable without reference to it. Four to six keywords should be given below the abstract. Authors should bear in mind that readers increasingly use search engines to find literature. Examples of abstracts and keywords are available online at wjst.wu.ac.th.

2.3 Main text

The *text* should be subdivided into **Introduction, Materials and Methods, Results and Discussion, and Conclusions**. General points for authors to consider include:

1. Please ensure that your manuscript has been spell-checked and grammar-checked before submission to remove trivial errors.
2. Papers should be written in either American or British English but must be consistent throughout the paper-do **not** use both in the same paper.
3. Abbreviations and acronyms should be used sparingly and consistently. When they first appear in the text, the complete term should be given, e.g. DMF = dimethylformamide.
4. Use only symbol and normal text character sets when inserting Greek letters (α), German umlauts (ä), accents (é) etc.

5. All scientific units must be preceded by a space, for example: '... for 2.5 h at 50 °C' **not** '... for 2.5h at 50°C'.
6. Use tab stops for indents **not** the space bar.
7. Use the table function and **not** spreadsheets to create tables.
8. Use the equation editor or an equivalent for equations. For authors using Word 2007 or later use the Microsoft equation editor rather than the default editor.

2.4 Introduction

This should explain clearly and briefly, with relevant references, the nature of the problem and its background.

2.5 Materials and Methods

This section must be detailed enough to allow an experienced scientist to repeat the work.

In the case of novel materials, adequate proof of the purity and nature of the material must be provided. Lengthy descriptions of established procedures should not be included.

In instances where animals or human subjects were studied the author should include a statement that all experiments were performed in compliance with the relevant laws and institutional guidelines, and also state the institutional committee(s) that have approved the experiments. They should also include a statement that informed consent was obtained for any experimentation with human subjects.

2.6 Results and Discussion

The results should normally come before the discussion and in certain cases may be separate from it. Figures and tables should be used in the interests of clarity and brevity

and data from these should be complementary **not** repetitive.

2.7 Conclusions

This should emphasize the highlights and importance of the work and must not summarise the main text or abstract.

2.8 Acknowledgements

Acknowledgements of people, grants, funds etc should be included in a section just before the references. The names of funding agencies, scholarships etc should be written in full.

2.9 References

References in the text should be cited in the manuscript by Arabic numerals in square brackets and numbered sequentially in order of citation. They should, if applicable, be before punctuation (example: text [1,2].). If multiple citations are used they should appear as follows: [1-3]. Proper abbreviations for all journals **must** be used. For a complete listing of the standard abbreviations of a journal's name please see: <http://www.issn.org/2-22661-LTWA-online.php>.

The style of citation is as follows:

Journals: [1] A Rods and R Shephard. The influence of cigarette smoking upon the oxygen cost of breathing in near maximal exercise. *Eur. J. Appl. Physiol.* 1983; **51**, 371-9. Articles with a DOI should be referenced as follows: D Zhu, I Thapa, I Korobkov, S Gambarotta and PHM Budzelaar, Redox-Active Ligands and Organic Radical Chemistry. *Inorg. Chem.* 2011, DOI: 10.1021/ic2002145.

Books: [2] LI Iverson, SD Iverson and SH Snyder. *Handbook of Psychopharmacology*,

Vol II. Plenum Press, New York, 1978, p. 99-115.

Chapters in books: [3] AL Hecker. *Nutrition and Physical Performance*. In: Strauss RH (ed.). *Drugs & Performance in Sport*. 2nd ed. WB Saunders, Philadelphia, 1987, p. 23-40.

Proceedings: [4] S Chumpawadee, K Sommart, T Vongpralub and V Paatarajinda. Effect of synchronizing the rate of dietary energy and nitrogen release on ruminal fermentation, microbial protein synthesis and blood urea nitrogen in beef cattle. New dimensions and challenges for sustainable livestock farming volume III. In: *Proceeding of the 11th AAAP Animal Science Congress*, Kuala Lumpur, Malaysia. 2004, p. 364-6.

Dissertations: [5] DJ Harding. 2000, Redox-Active Group 6 Transition Metal Alkyne Complexes, Ph. D. Dissertation. University of Bristol, Bristol, England.

Patents: [6] D Williams. 2005, Screw Less Clip Mounted Computer Drive, U.S. Patent 6,885,550.

Internet Websites: [7] Walailak Journal of Science and Technology, Available at: <http://wjst.wu.ac.th>, accessed May 2012.

Note that for books or journals in the Thai language the title of the book or journal and names of authors should be given in English while the year should be reported in the Christian calendar (2011 **not** 2554 BE). After the title of the book or journal the words *in Thai* should follow in parenthesis. [8] J Angkathavanich. Garcinia fruit and weight loss. *Journal of Food and Pharmaceuticals (in Thai)*, Mahidol University, Bangkok, 1998; **52**, 16-9.

2.10 Tables

Tables should be typed on separate pages and numbered using Arabic numerals with a caption written in normal text. For example: 'Table 3 Characterization data for complexes 1-3.' The table **must** also be cited in the text. Footnotes to the table should be included where necessary as superscript lower case letters with the text in Times New Roman, 9 pt (example: ^aAt 298 K). References to previous work presented in the table should also be included in the footnotes.

2.11 Figures, schemes and illustrations

Graphics such as figures, schemes and illustrations should be placed on separate pages or in the text and numbered using Arabic numerals. As with tables the figure captions must be written in normal text and must be cited in the text. Other points to consider include:

1. Figure captions should be written **Figure 1** Text.
2. The graphics must be submitted as *.jpg or *.tif files.
3. They must have a minimum resolution of 600 dpi for good reproduction.
4. Images from other authors' work **must** be properly referenced.
5. Figures containing text must have the text embedded in the figure file.
6. Use simple fonts such as Arial for text in the figure.
7. Do not use faint lines and check that all fonts are legible at final size.
8. Try to avoid colour graphs, charts and lines as these are often not distinguishable when printed in black and white.

3. Reprints

Authors will receive a pdf file of their paper and one free copy of the journal in which their work appears.