

Article title – 16pt Angsana New, Bold with the first letter capitalized followed by small letters

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Abstract

This is an instruction for manuscript preparation a publication in Thammasat Engineering Journal. Please follow this guideline strictly. The abstract should contain a single paragraph describing objectives, methodology and a summary of important results and its length should not exceed 300 words.

Keywords: 4-6 keywords, separated by colons.

1. Introduction

This article demonstrates an example for you to prepare your article for publishing in Thammasat Engineering Journal. Please strictly follow the guideline and use Microsoft Word. The length shall not exceed 10 pages or 10,000 words

1.1. Paper size and margins

Please use A4 paper with the 8.25 in × 11.5 in in two-column page 0.19 in apart, 0.88 in top margin, 0.75 in bottom, 1 in left margin and 0.75 in right margin. Double the space below each heading. Format of Thammasat Engineering Journal can be downloaded from: <http://www.engr.tu.ac.th/enjournal/>

1.2. Font

Use Angsana New font for both Thai and English for the whole article. Title: 16pt, Bold Author(s): 14pt Institution and corresponding details: 12pt Subheadings: 14pt Content: 14pt Use small letters for all English words in parentheses.

1.3. Ordering of subheadings

Begin flush left using 14pt italics. Double the space under each subheading. (The line should be adjusted to equal 8pt letter.) The subheadings should follow this example:

1. The first item in the list
2. The second item
 - 2.1. Sub-item
3. The last item

1.4 Structure of article

The article content will consist of the following headings:

1. Introduction
2. Research Methodology
3. Research Results and Discussion
4. Conclusion
5. Acknowledgements
6. References

2. Title of the article

The title will be typed on the first line with 16pt bold letters, flush left.

3. Author name(s) and corresponding details

Type the author name(s) under the title using 14pt letter flush left. In case of more than one author from more than one

institution, put 1), 2) at the end of each name. Place * at the end of each name for correspondence. Contact details should include the organization, postcode, country. All of these details should be in 12pt letters, flush left.

4. Abstract

A Thai article must contain both Thai and English abstracts. The abstract will skip one line from the corresponding details, using the heading “บทคัดย่อ/Abstract”. The content shall not exceed 15 lines or 300 words. The English Version requires on Thai abstract.

5. Keywords

There should be at least 4-6 keywords to present the main topics in the article. The keywords should be listed below the abstract without skipping any line.

6. Content

A new paragraph can begin without skipping any line. Typing on A4 paper should be on one side only. No page number is required.

7. Research results

The research results should be presented clearly and right to the point with accompanying figures and tables. These figures and tables should be referred to in the content. Explanation must not repeat what is already given in the content. All units can be in Thai and the word percentage should be used to present percentage. If units are in English, consistency should be observed.

7.1. Numerical ordering

Ordering of numbers to refer to figures, tables, and equations should be Arabic. All equations need a parenthesis to the right as in the following example:

$$\bar{\lambda}_g = \frac{\mu}{p} \left(\frac{2kT}{m} \right)^{1/2} \quad (1)$$

The letters in equations are in 10pt Time new Roman. Symbols are also 10pt. Equations are written using Math Type or Equation Editor.

7.2. Figures and tables

Figures and tables should fit the column. Only when necessary, such as to keep all the content, a table may use the

whole page space. Authors are responsible for arranging the figures and tables within the regulations while keeping all the contents and details clear and illegible. The letter fonts must not be lower than 10pt. Drawings should be in black lines using programs as Visio, Adobe Illustrator, Macromedia Freehand or other drawing programs. Photographs added must be clear enough.

Figures require necessary details only, with numbers and captions ordered as they appear in the article, from Figure 1 to

Figure 2,The figure title must be under the figure in the middle of the column with one line skipped and the figure number underneath. All figures and tables must be referred to in the content.

A table needs a caption on top of the table, ordered from 1, 2, 3,....as they appear in the article. Each table is flush left with a line skipped before the caption and below the table as in the following example

Example of writing Table 1

Table 1

Redox moiety	Diluent	Method	k_0 (s ⁻¹)
R1	D1	ILIT	3.4 x 10 ⁴
		CV	3.3 x 10 ⁴
R2	D2	ILIT	6.0 x 10 ⁴

Example of writing Table 2

x	a_r / m_r	$2\zeta_r \omega_r$
0.1	2.7470e+01	2.7483e+01
0.5	3.5352e+01	3.5360e+01

8. Discussion

Research discussion is aimed at persuading readers by comparing with other research studies and proposing possible solutions or useful suggestions for solving certain research outcomes, etc. Research results and discussion can be written in one section.

9. Conclusion

The conclusion of points and important research elements should not be too long. Your article should be reviewed by all co-writers before submission.

10. Acknowledgements

Acknowledgements is for the purpose of showing gratitude to research supporters. It should not be long. Your article should be reviewed by all co-writers before submission.

11. References

Reference part should follow the Vancouver style, and only in English. If the reference is Thai, it should be translated into English followed by Thai after "(In Thai)". An author's name should begin with the surname followed by the initial of the first name.

11.1. Referencing in the content

Referencing in the content relies on the numerical system in the order of the referred documents that appear in the content. The number in the content must correspond to the reference part. Use an Arabic number in parenthesis after the referred statement. For example, (1) or (2-4, 8, 10) refers to Author 1 or 2, 3, 4, 8, 10 ordering from 1, 2, 3,... to the last number which appear in the reference.

11.2. Example of reference at the end

This is based on the Vancouver style and only what is referred to in the content will be given in the reference. The following references are allowed:

1. Reference to a textbook.

- [1] Murray PR, Rosenthal KS, Kobayashi GS, Pfaller MA. Medical microbiology. 4th ed. St. Louis: Mosby; 2002.

2. Reference to an article

- [2] Bua-art S, Saksirirat W, Kanokmedhakul S, Hiransalee A, Lekphrom R. Extraction of bioactive compounds from luminescent mushroom (*Neonothopanus nambi*) and its effect on root-knot nema-tode (*Meloidogyne incognita*). *KKU Res J*. 2010;15(1): 726-37. (In Thai).

3. Reference to a thesis

- [3] Srisuk M. Cloning and characterization of gene insulin [MSc thesis]. Khon Kaen: Khon Kaen University; 2002. (In Thai).

4. Reference to an article in a conference

- [4] Bengtsson S, Solheim BG. Enforcement of data protection, privacy and security in medicalinformatics. In: Lun KC, Degoulet P, Piemme TE, Rienhoff O, editors. *MEDINFO 92. Proceedings of the 7th World Congress on Medical Informatics*; 1992 Sep 6-10; Geneva, Switzerland. Amsterdam: North-Holland; 1992. p. 1561-5.

5. Reference to a patent

- [5] Pagedas AC, inventor; Ancel Surgical R&D Inc., assignee. Flexible endoscopic grasping and cutting device and positioning tool assembly. United States patent US 20020103498. 2002 Aug 1.

6. Reference to an electronics article

- [6] Morse SS. Factors in the emergence of infectious diseases. *Emerg Infect Dis* [serial online] 1995 Jan-Mar [cited 1996 Jun 5];1(1):[24 screens]. Available from: URL: <http://www.cdc.gov/ncidod/EID/eid.htm>.