



Type of Article (Research Article or Review Article or Short Communication)

Instructions for Preparing Manuscript for Bulletin of Chemical Reaction Engineering & Catalysis (2014 Template Version) ← 16pt

Istadi Istadi ^{1*}, Didi Dwi Anggoro ¹, Dani Purwanto ² ← 12pt, bold

¹ *Chemical Reaction Engineering & Catalysis Group, Department of Chemical Engineering Diponegoro University, Jl. Prof. Soedarto, Kampus Undip Tembalang, Semarang 50239, Indonesia*

² *Department of Chemical Engineering, Diponegoro University, ← 12pt, italic
Jl. Prof. Soedarto, Kampus Undip Tembalang, Semarang 50239, Indonesia ← 12pt, italic*

* *Corresponding Author. E-mail: istadi@undip.ac.id (I. Istadi),
Telp: +62-24-7460058, Fax: +62-24-76480675*

Abstract ← 12pt, Times New Roman, bold

The abstract should be clear, concise, and descriptive. This abstract should provide a brief introduction to the problem, objective of paper, followed by a statement regarding the methodology and a brief summary of results. The abstract should end with a comment on the significance of the results or a brief conclusion. Abstracts are written in 12 pt Times New Roman, preferably not more than 300 words.

Keywords: ← 12pt, Times New Roman bold

Maximum of 5 keywords separated by semicolon (;), crucial to the appropriate indexing of the papers, are to be given. eg: Artificial Intelligence; Genetic Algorithm; Fuzzy Logic

1. Introduction ← 12pt, Times New Roman, bold

This template (downloadable at: http://ejournal.undip.ac.id/download/author_guidelines_bcrec_2014.docx) is designed to assist Author in preparing manuscript; it is an exact representation of the format expected by the editor. To use this template, please just Save As this MS Word file to your document, then copy and paste your document text here. To copy and paste the text to this template document, please use "Special Paste" and choose "Unformatted Text".

Bulletin of Chemical Reaction Engineering & Catalysis, an international journal, provides a forum for publishing the original research

articles, review articles from contributors, and the novel technology news related to chemical reaction engineering and catalysis engineering. Scientific articles dealing with chemical reaction engineering, catalysis engineering, catalyst characterization, novel innovation of chemical reactor, etc. are particularly welcome. The bulletin encompasses research articles, original research report, reviews, short communications and scientific commentaries in chemical reaction engineering and catalysis including: fundamentals of catalysis, fundamentals of chemical reaction engineering, applied chemical reaction engineering, applied catalysis, chemistry of catalyst and catalysis, applied bio-catalysis, chemical reactor design, bio-reactor design, catalyst regeneration, catalyst materials preparation, industrial practice of catalysis, chemical reactor engineering, and application of plasma technology in catalysis.

*Corresponding Author. E-mail: istadi@undip.ac.id (I. Istadi), Tel: +62-24-7460058, Fax: +62-24-76480675

All papers submitted to the journal should be written in good English. Authors for whom English is not their native language are encouraged to have their paper checked before submission for grammar and clarity. English language and copyediting services can be provided by: International Science Editing and Asia Science Editing. The work should not have been published or submitted for publication elsewhere. The official language of the manuscript to be published in BCREC journal is English.

2. Materials and Methods ← 12pt, Times New Roman bold

2.1. General Organization of the Paper ↗ 12pt, Times New Roman bold

The paper will be published in BCREC journal after peer-reviewed process for at least two reviewers. Once the manuscript is accepted, the article will be sent to editing process to be layout-edited to the final version of BCREC article. After a suitable arrangement, the paper will be directly reproduced to the camera-ready format.

According to Engelmores and Morgan [1], manuscript content should, in general, be organized in the following order: Title; Authors Name; Authors Affiliation; Abstract; Keywords; Introduction; Materials and Methods; Results and Discussion; Conclusions; Acknowledgements; and References.

2.2. Section Headings

Three levels of heading are allowed as follows:

- Level 1 (Heading1 format) - 12pt, Times bold, left justified
- Level 2 (Heading2 format) - 12pt, Times bold, left justified
- Level 3 (Heading3 format) - 12pt, Times bold italic, left justified

2.3. Body Text

The body of the text is a set of body text paragraphs defined as follows:

- 12pt Times New Roman
- One-half space, defined as 12pt
- Spacing after the heading is 3pt
- Spacing before the new heading is 12pt
- Indentation for the first line is 1 cm.
- 2.4. Bullets
- There are two levels of allowed bulleting:
- This is the first bullet level
- This is a sub-bullet level

2.5. Enumerated Lists

Lists are sequentially numbers as follows:

- Spacing before the start of list is 3pt
- Spacing after the end of list is 3pt

2.6. Tables

Tables are sequentially numbered with the table title and number above the table. Tables should be centered in the column OR on the page. Tables should be followed by a line space (12pt). Elements of a table should be single-spaced, however double spacing can be used to show groupings of data or to separate parts within the table. Table headings should be in 10pt bold. Tables are referred in the text by the table number. eg: Table 1. Do not show vertical line in the table. There is only horizontal line should be shown within the table.

Table 1. Formatting Rules

Object	Font	Align - ment	Space above	Space below
Title	12pt bold	centered	0pt	12pt
Author(s)	12pt bold	centered	12pt	12pt
Addresses	10pt italics	centered	0pt	0pt
Heading1	12pt bold	left	12pt	3pt
Heading2	12pt bold	left	6pt	3pt
Heading3	13pt bold italics	left	3pt	3pt
Body	12pt	justified	0pt	0pt
Bullet	12pt	justified	0pt	0pt
Table title	12pt	centered	12pt	6pt
Figure title	12pt	centered	3pt	6pt

2.7. Figures

Figures are sequentially numbered commencing at 1 with the figure title and number below the figure as shown in Figure 1. Detailed recommendations for figures are as follows:

- Ensure that figures are clear and legible with typed letterings.
- Black & white or colored figures are allowed.
- If a figure spans two columns, it should be placed at the top or bottom of a page.
- Hard copy illustrations should, preferably, be scanned and included in the electronic

version of the submission in an appropriate format as follows:

- ◇ BMP - Microsoft bitmap file
- ◇ WMF - Windows Metafile Format
- ◇ EPS - Encapsulated Postscript
- If figures cannot be scanned, the original should be placed in its location within the manuscript using wax or colorless glue.
- The following files are permissible:
 - ◇ Microsoft Graph
 - ◇ Microsoft Draw

Figure 1 shows an included Microsoft Draw object.

2.8. Equations

Equations should be numbered serially within parentheses as shown in Equation (1). Equation should be prepared using MS Equation Editor (not in image format). The equation number is to be placed at the extreme right side.

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \cdot \int_0^\infty \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i) d\lambda \quad (1)$$

2.9. Units, Abbreviations and Symbols

Metric units are preferred. Define abbreviations and symbols at the first time as they are introduced in the text.

3. Results and Discussion

3.1. Manuscript Heading, Font, and Spacing - 12pt, Times New Roman italics

Manuscript should be typed using word processors (Microsoft Word or Open Office) software. The font used throughout the paper is Times New Roman. The paper size is A4 (i.e., 210 x 297 mm), two-column format (i.e., 85 mm

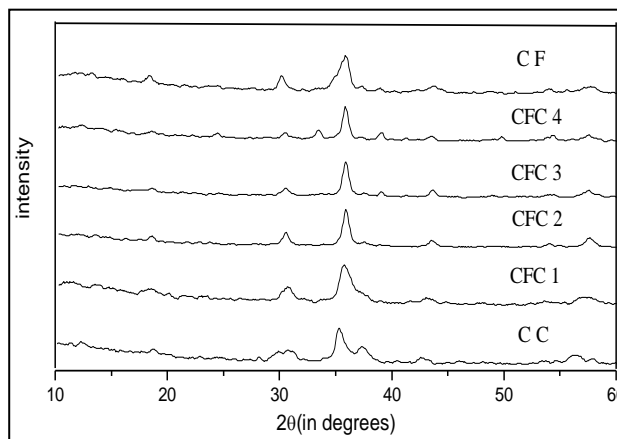


Figure 1. A sample chart

each) with a 2.5 cm margin at the top, a 2.5 cm margin at the bottom, 2 cm margins on the left and right with a 1 cm space between the two columns. Lines are single spaced, justified. If the last page of your paper consists of less than two columns, then divide the last page text into two columns of equal length. Use high quality paper, printed on one side only with, preferably, a laser printer. Page numbers are not to be included in the text; they should be written on the back of pages at the bottom center using a pencil. Use of pronouns such as I, we etc is to be avoided.

Manuscript submitted to this journal should follow the heading below, except for the review article: Title; Authors Name; Authors Affiliation; Abstract; Keywords; Introduction; Materials and Methods; Results and Discussion; Conclusions; Acknowledgments; and References.

3.2. Paper Title

This is your opportunity to attract the reader's attention. Remember that readers are the potential authors who will cite your article. Identify the main issue of the paper. Begin with the subject of the paper. The title should be accurate, unambiguous, specific, and complete. Do not contain infrequently-used abbreviations.

The title of the paper should be in 16 pt bold Times New Roman and be centered. The title should have 0 pts space above and 12 pts below.

3.3. Authors Name and Affiliations

Write Author(s) names without title and professional positions such as Prof, Dr, Production Manager, etc. Do not abbreviate your last/family name. Always give your First and Last names. Write clear affiliation of all Authors. Affiliation includes: name of department/unit, (faculty), name of university, address, country. Please indicate Corresponding Author (include email address) by adding asterisk (*) in superscript behind the name.

Author names should be in 12 pt Times Roman bold with 12 pts above and 12 pts below. Author addresses are superscripted by numerals and centered over both columns of manuscripts. Author affiliations should be in 12 pt Times Roman italic. The body of the text should commence 2 lines (24 points) below the last address.

3.4. Abstract and Keywords

Abstract should be stand alone, means that no citation in abstract. Consider it the advertisement of your article. Abstract should tell the prospective reader what you did and

highlight the key findings. Avoid using technical jargon and uncommon abbreviations. You must be accurate, brief, clear and specific. Use words which reflect the precise meaning. Abstract should be precise and honest. Please follow word limitations (100-300 words).

Keywords are the labels of your manuscript and critical to correct indexing and searching. Therefore the keywords should represent the content and highlight of your article. Use only those abbreviations that are firmly established in the field. e.g. DNA. Each words/phrase in keyword should be separated by a semicolon (;), not a comma (,).

3.5. Introduction

In Introduction, Authors should state the objectives of the work at the end of introduction section. Before the objective, Authors should provide an adequate background, and very short literature survey in order to record the existing solutions/method, to show which is the best of previous researches, to show the main limitation of the previous researches, to show what do you hope to achieve (to solve the limitation), and to show the scientific merit or novelties of the paper. Avoid a detailed literature survey or a summary of the results.

3.6. Materials and Methods

Materials and methods should make readers be able to reproduce the experiment. 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. Do not repeat the details of established methods. For the chemicals, please provide details of brand and purity (example: CaO (Merck, 99.5%)).

3.7. Results and Discussion

Results should be clear and concise. The results should summarize (scientific) findings rather than providing data in great detail. Please highlight differences between your results or findings and the previous publications by other researchers.

The discussion should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

In discussion, it is the most important section of your article. Here you get the chance to sell your data. Make the discussion

corresponding to the results, but do not reiterate the results. Often should begin with a brief summary of the main scientific findings (not experimental results). The following components should be covered in discussion: How do your results relate to the original question or objectives outlined in the Introduction section (what)? Do you provide interpretation scientifically for each of your results or findings presented (why)? Are your results consistent with what other investigators have reported (what else)? Or are there any differences?

3.8. Conclusions

Conclusions should answer the objectives of research. Tells how your work advances the field from the present state of knowledge. Without clear Conclusions, reviewers and readers will find it difficult to judge the work, and whether or not it merits publication in the journal. Do not repeat the Abstract, or just list experimental results. Provide a clear scientific justification for your work, and indicate possible applications and extensions. You should also suggest future experiments and/or point out those that are underway.

3.9. Acknowledgment

Recognize those who helped in the research, especially funding supporter of your research. Include individuals who have assisted you in your study: Advisors, Financial supporters, or may other supporter i.e. Proofreaders, Typists, and Suppliers who may have given materials.

3.10. References

Cite the main scientific publications on which your work is based. Cite only items that you have read. Do not inflate the manuscript with too many references. Avoid excessive self-citations. Avoid excessive citations of publications from the same region. Check each reference against the original source (authors name, volume, issue, year, DOI Number). Please use Reference Manager Applications like EndNote, Mendeley, Zotero, etc. Use other published articles in the same journal as models.

All publications cited in the text should be included as a list of references. References are sequentially numbered as they appear in the text. Reference numbers are indicated in square brackets. 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.

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

This journal has standard templates available in key reference management packages EndNote (<http://www.endnote.com/support/enstyles.asp>) and Reference Manager (<http://refman.com/support/rmstyles.asp>). Using plug-ins to word processing packages, authors only need to select the appropriate journal template when preparing their article and the list of references and citations to these will be formatted according to the journal style which is described below.

Recommendations for references are:

- Include ALL authors. et al., for multiple authors is not acceptable.
- When referencing in the body of text, use 12pt Times Roman in square brackets [1].
- Types of references are as follows:
 - ◊ For a Book, see [1]
 - ◊ For a Journal Article, see [2]
 - ◊ For a Magazine Article, see [4]
 - ◊ For a Proceedings Paper, see [5]
 - ◊ For a Technical Report, see [6]
 - ◊ For a Dissertation or Thesis, see [7]
 - ◊ For an Internet Reference, see [8]

When preparing your reference list, the following should be avoided:

- References not cited in the text.
- Excessively referencing your own work.
- Insufficiently referencing the work of others.

It is also preferable when Authors give DOI number of each reference list in bracket [3], but it is optional for Authors. References list must be written consistently, whether the journal titles are written in short (i.e. Bull. Chem. React. Eng.

Catal.) or in long format (Bulletin of Chemical Reaction Engineering & Catalysis). For short title of journals, please follow the standard here: http://www.efm.leeds.ac.uk/~mark/ISIabbr/J_abrvjt.html

4. Conclusions

Papers not prepared in accordance with these guide lines and manuscripts with number of mistakes will have to be pre-rejected by Editor. Submission of fulltext paper can be conducted by Online Electronic Submissions Interface at the following URL address:

<http://ejournal.undip.ac.id/index.php/bcrec>

Started from 2011, Editor will not receive submission by email and/or hardcopy. Currently, online version of BCREC articles in PDF format can be opened for free open access at BCREC website <http://bcrec.undip.ac.id> and/or <http://ejournal.undip.ac.id/index.php/bcrec>

Acknowledgments ← 12pt, Times bold

You may wish to thank those who have supported you and your work.

References ← 12pt, Times bold

- [1] Engelmores, R., Morgan, A. eds. (1986). Blackboard Sys-tems. Reading, Mass.: Addison-Wesley. ← Book
- [2] Robinson, A.L. (1980). New Ways to Make Microcircuits Smaller. *Science*, 208:1019-1026. ← Journal
- [3] Bhavsar, D.S., Saraf, K.B. (2002). Morphology of PbI₂ Crystals Grown by Gel Method. *Crystal Research and Technology*, 37: 51–55 ← Journal
- [4] Hasling, D.W., Clancey, W.J., Rennels, G.R. (1983). Strategic Explanations in Consultation. *The International Journal of Man-Machine Studies*, 20(1): 3-19. ← Journal
- [5] Clancey, W.J. (1983). Communication, Simulation, and In-telligent Agents: Implications of Personal Intelligent Ma-chines for Medical Education. In *Proceedings of the Eighth International Joint Conference on Artificial Intelligence*, 556-560. Menlo Park, Calif.: International Joint Conferences on Artificial Intelligence, Inc. ← Conferences
- [6] Rice, J. (1986). Poligon: A System for Parallel Problem Solving, *Technical Report*, KSL-86-19, Dept. of Computer Science, Stanford Univ. ← Report
- [7] Clancey, W.J. (1979). Transfer of Rule-Based Expertise through a Tutorial Dialogue. *PhD Dissertation*, Department of Com-puter Science, Stanford University. ← Thesis
- [8] Ivey, K.C. (2 September 1996). Citing Internet sources URL <http://www.eei-alex.com/eye/utw/96aug.html>. ← Website