Instructions/Template for Preparing Manuscript for Bulletin of Chemical Reaction Engineering & Catalysis (2024 Version) ← (14pt, bold)

FirstName1 LastName1 1 \*, FirstName2 MiddleName2 LastName21, F. N. LastName3 2 ← (12pt, bold)

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# Abstract (← 12pt, Century Schoolbook bold)

The abstract should be clear, concise, and descriptive. The abstract should stand alone, meaning that no citation and figures and equation format in the abstract. Consider it the advertisement of your article. The abstract should tell the prospective reader what you did and highlight the key findings. This abstract should provide a brief background of the problem (preferably 1-2 sentences), clear objective of the paper, research method in short, and a brief summary of results/findings (not discussion), and short conclusion. Avoid using technical jargon and uncommon abbreviations. The abstract must be accurate, brief, clear and specific. Use words which reflect the precise meaning. The abstract should be precise and honest. Please follow word limitations (should be: 150‐250 words) (← 12pt, Century Schoolbook).

# Keywords: (← 12pt, Century Schoolbook 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, Century Schoolbook bold)

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In Introduction, Authors should state the **objectives of the work/paper** at the end of the introduction section. Before the objective, Authors should provide an **adequate background** (maximum 1 paragraph), and **very short literatures survey/review** in order to record the existing solutions/method, to show which is the best of previous research, to show the main limitation of the previous research, 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**. Do not describe literature survey/review as author by author but should be presented as a group of articles per method or topic reviewed which refers to some literature.

One of examples of novelty statement or the gap analysis statement in the end of Introduction section (after state of the art of previous research survey) as follow:

*“........ (short summary of background) ............ (put here state of the art or overview of previous research similar to this research) .............. A few researchers focused on ....... There have been limited studies concerned on ........ Therefore, this research intends to ................. The objectives of this research are .........*”.

or

“*........ (short summary of background) ............ (put here state of the art or overview of previous research similar to this research) .............. A few researchers focused on ....... There is no researcher concerned on ........ Therefore, this research focuses on ................. Therefore, this research is aimed to .........*”.

or etc.

# 2. Materials and Methods (← 12pt, Century Schoolbook bold)

## 2.1 General Organization of the Paper (← 12pt, Times New Roman bold)

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According to Engelmore 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; Acknowledgments;* and *References*. Manuscript document submitted to this journal (in one MS Word or PDF file) should be arranged as follow: (a) Bodytext of manuscript article (from Title to References, without tables and figures); (b) Figure Captions and Table Captions; (c) Figures (one figure per page); and (d) Tables (one table per page). Please include a Covering Letter in a separate document file containing your summary of scientific findings and uploaded in Supplementary Files.

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Three levels of heading are allowed as follows: (a) Level 1 (Heading1 format) - 12pt, Century Schoolbook bold, left justified; (b) Level 2 (Heading2 format) - 12pt, Century Schoolbook bold, left justified; and (c) Level 3 (Heading3 format) - 12pt, Century Schoolbook bold italic, left justified.

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The body of the text is a set of body text paragraphs defined as follows: (a) 12pt Century Schoolbook; (b) One-half space, defined as 12pt; (c) Spacing after the heading is 3pt; (d) Spacing before the new heading is 12pt; (e) Indentation for the first line is 1 cm.

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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 to in the text by the table number without location (above, below, following, etc.), e.g.: Table 1. Do not show a vertical line in the table. Only horizontal lines should be shown within the table.

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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: (a) Ensure that figures are clear and legible with typed letterings. (b) Black & white or colored figures are allowed. (c) If a figure spans two columns, it should be placed at the top or bottom of a page. (d) 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. (e) If figures cannot be scanned, the original should be placed in its location within the manuscript using wax or colorless glue. (f) The following files are permissible: Microsoft Graph, Microsoft Draw.

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Equations should be numbered serially within parentheses as shown in Equation (1). Equations should be prepared using MS Equation Editor (not in image format). The equation number is to be placed at the extreme right side. Explanation of the symbols in the equation should be presented as a descriptive paragraph after the equation, not as an item list.

  (1)

## 2.8. Units, Abbreviations and Symbols

Metric units are preferred. Define abbreviations and symbols at the first time as they are introduced in the text. Definition of symbols should be presented in paragraph form, not as list bulleted.

# 3. Results and Discussion ( ← 12pt, Century Schoolbook)

## 3.1. Manuscript Heading, Font, and Spacing ( ← 12pt, Century Schoolbook)

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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; CRediT Author Statement; and References***.

## 3.2. Paper Title

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## 3.4. Abstract and Keywords

An abstract should stand alone, meaning that no citation and figures and equation format in the abstract. Consider it the advertisement of your article. The 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. The abstract should be precise and honest. Please follow word limitations (100‐250 words). **Abstract must contain: *backgrounds* (if any, maximum 2-3 sentences), *short clear objectives*, *short methods*, *final results or findings*, and *conclusion***.

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 word/phrase in the 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 the introduction section. Before the objective, Authors should provide an **adequate background** (maximum 1 paragraph), and **very short literatures survey/review** 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. Do not describe literature survey/review as author by author but it should be presented as a group per method or topic reviewed which refers to some literatures.

One of examples of novelty statement or the gap analysis statement in the end of Introduction section (after state of the art of previous research survey):

## *“........ (short summary of background) ....... .....(put here state of the art or overview of previous research similar to this research).............. A few researchers focused on ....... There have been limited studies concerned on ........ Therefore, this research intends to ................. The objectives of this research are .........*”.

## or

## “*........ (short summary of background) ....... .....(put here state of the art or overview of previous research similar to this research).............. A few researchers focused on ....... There is no researcher concerned on ........ Therefore, this research focuses on ................. Therefore, this research is aimed to .........*”.

etc.

## 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.

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## 3.7. Results and Discussion

Results should be clear and concise. **The results should summarize (scientific) findings rather than providing data in 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.

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Recognize those who helped in the research, **especially funding supporter of your research financially**. Include individuals who have assisted you in your study: Advisors, Financial supporters, or may another supporter, i.e. Proofreaders, Typists, and Suppliers, who may have given materials. Do not acknowledge one of the authors’ names.

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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, Digital Object Identification (DOI) Number). **DOI Number information must be provided (if available)**. It is suggested to use Reference Manager Applications like EndNote, Mendeley, Zotero, etc. Use other published articles in the same journal as models. **The minimum number of references should be 25 references**.

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	+ For a Magazine Article or Book Chapter, see [8]
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(This policy statements have been updated on 24th December 2020)

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# 12. CRediT Author Statement (← 12pt, Times New Roman bold)

Example: Author Contributions: *I. Istadi*: Conceptualization, Methodology, Investigation, Resources, Data Curation, Writing, Review and Editing, Supervision; *T. Riyanto*: Conceptualization, Methodology, Formal Analysis, Data Curation, Writting Draft Preparation, Visualization, Software, Project Administration; *B. Jongsomjit*: Validation, Writing, Review and Editing, Data Curation; *D.D. Agggoro*: Investigation, Resources, Writing, Review and Editing, Validation. All authors have read and agreed to the published version of the manuscript.

# 13. Citation and 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, Digital Object Identification (DOI) Number). DOI Number information must be provided (if available). It is suggested to use Reference Manager Applications like EndNote, Mendeley, Zotero, etc. Use other published articles in the same journal as models. **NOTE: The minimum number of references should be 25 references, to make sure of the adequacy of literatures cited**.

Citation within body text of article to reference(s) must follow the numbering system. References must be presented sequentially and sorted to start from first cited reference. Example: "Dye waste water has become an environmental problem due to the production of paper, textiles, gasoline, cosmetics, food industries, etc. [1]. Dye wastes are toxic, hazardous, and non-biodegradable [2], which may cause the destruction of aquatic living organisms [3]. As one of the dye compound, methyl orange (MO) is known as an azo anionic type that contains of −N=N− chromophore group and aromatic structure [4,5]."

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 maybe 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, a 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.

IMPORTANT NOTE: This journal must follow standard templates available in key referenc e management packages like Mendeley (<https://mendeley.com>). To use the citation style of Bulletin of Chemical Reaction Engineering & Catalysis, please go to Mendeley Desktop application, Click View -> Citation Style -> More Styles…. In the pop-up window, click Get More Styles. Copy the link (<https://csl.mendeley.com/styles/485528261/bcrec1>), paste in Download Style, and press the Download button.

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.

Important recommendations for references are:

* Please type all authors names. Using 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 (not preferable), see [8]

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

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

It is also preferable/recommended when Authors give DOI number information of each reference list in bracket [3], if any. References list must be written consistently, whether the journal titles are written in short (i.e. Bull. Chem. React. Eng. Catal.) or in a 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](http://www.efm.leeds.ac.uk/~mark/ISIabbr/J_%20abrvjt.html)

Examples of guideline for preparing references list is described in the last section of this author guidelines.

# 14. References (← 12pt, Times New Roman bold)

Citation within body text of article to reference(s) must follow numbering system ("..... [1], ...... [2-3], etc.") which should be started from references cited first. However, references list must be typed according to American Psychological Association (APA) Version 6.0. **Authors should provide DOI number of each reference especially for journal articles**.

1. Authors Last Name(s), First Name(s) in capital shortened. (year). *Book Title*. Edition. Place: Publisher. ← *Book*
2. (Authors Last Name(s), First Name(s) in capital shortened) Engelmore, R., Morgan, A. (1986). *Blackboard Systems*. Edition. Reading, Mass.: Addison-Wesley. ← *Book*
3. (Authors Last Name(s), First Name(s) in capital shortened). (year). Article Title. *Journal Title*. Volume (Issue Number: optional), page number start-page number end. DOI information. ← *Journal*
4. Robinson, A.L. (1980). New Ways to Make Microcircuits Smaller. *Science*, 208, 1019-1026. DOI: 10.1126/science.208.4447.1019. ← *Journal*
5. Bhavsar, D.S., Saraf, K.B. (2002). Morphology of PbI2 Crystals Grown by Gel Method. *Crystal Research and Technology*, 37, 51–55. DOI: 10.1002/1521-4079(200202)37:1%3C51::AID-CRAT51%3E3.0.CO;2-N ←*Journal*
6. Li, M., Xing, S., Yang, L., Fu, J., Lv, P., Wang, Z., Yuan, Z. (2019). Nickel-loaded ZSM-5 catalysed hydrogenation of oleic acid: The game between acid sites and metal centres. *Applied Catalysis A: General*. 587, 117112. DOI: 10.1016/j.apcata.2019.117112. ←*Journal*
7. Clancey, W.J. (1983). Communication, Simulation, and Intelligent Agents: Implications of Personal Intelligent Machines 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
8. Amin, N.A.S., Istadi, I. (2012). Different Tools on Multiobjective Optimization of a Hybrid Artificial Neural Network – Genetic Algorithm for Plasma Chemical Reactor Modelling. In Olympia Roeva (Editor) *Real-World Applications of Genetic Algorithms*. Croatia: InTech Publisher. ← *Book Chapter*
9. Rice, J. (1986). Polygon: A System for Parallel Problem Solving, *Technical Report*, KSL-86-19, Dept. of Computer Science, Stanford Univ. ←*Report*
10. Clancey, W.J. (1979). Transfer of Rule-Based Expertise through a Tutorial Dialogue. *Ph.D. Dissertation*, Department of Computer Science, Stanford University. ←*Thesis*
11. Ivey, K.C. (2 September 1996). Citing Internet sources URL http://www.eei- alex.com/eye/utw/96aug.html. ←*Website* (but should be avoided)

# 15. Supporting Information (SI)

This Supporting information (SI) is provided to the reviewers during the peer-review process (for Review Only) and is available to readers of the published work (for Publication). Supporting Information file(s) must be submitted, as separate file(s), at the same time as the manuscript, in Step 4 – Uploading Supplementary Files (by Choosing Supporting Information Type). If the manuscript is accompanied by any supporting information files for publication, these files will be made available free of charge to readers.

It is recommended to Author(S) to provide detail experimentals, calculations, and methods as well as all other additional experimental results and characterizations in the Supporting Information.

A brief, nonsentence description of the actual contents of each file, including the file type extension, is required. This description should be labeled Supporting Information and should appear after the Acknowledgement and Reference sections.

Examples of sufficient and insufficient descriptions are as follows:

* Examples of sufficient descriptions: “Supporting Information: 1H NMR spectra for all compounds (PDF)” or “Additional experimental details, materials, and methods, including photographs of experimental setup (DOC)”.
* Examples of insufficient descriptions: “Supporting Information: Figures S1-S3” or “Additional figures as mentioned in the text”.

# FIGURE CAPTIONS

Figure 1. A sample chart/figure

# TABLE CAPTIONS

Table 1. Formatting Rules

**Table 1.** Formatting rules

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Object | Font | Alignment | Space above | Space below |
| Title | 12pt bold | centered | 0pt | 12pt |
| Author(s) | 12pt bold | centered | 12pt | 12pt |
| Addresses | 12pt italics | centered | 0pt | 0pt |
| Heading1 | 12pt bold | left | 12pt | 3pt |
| Heading2 | 12pt bold | left | 6pt | 3pt |
| Heading3 | 12pt 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 |



**Figure 1**. A sample chart/figure