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Instructions for Preparing Manuscript of EKSERGI (in English, Bold, 12pt)

Author^{a1*}, Author^a, Author^{a,b}, Author^b

^aInstitution, City, State, postal code, Country ^bInstitution, City, State, postal code, Country

Artikel histori:

Submitted xxx Revision xxx Accepted xxx Online xxx **ABSTRACT**: The abstract is written in introduction, methods, results, and discussion (IMRAD) style. The abstract is typed in English. It should be clear, concise, descriptive and should provide a brief introduction to the problem. This should generally be followed by a statement regarding the methodology and a summary of results. The abstract should end with a comment on the significance of the results or a brief conclusion. Abstracts are written in 10 pt 1 spacing Times New Roman, preferably not more than 200 words.

Keywords: keyword1; keyword2; keyword3; keyword4; keyword5

^{1*} Corresponding Author: +12-2345678; fax : +2345 678910 Email: authoremail@mail.com

Page xx

1. Introduction

An introduction usually consists of 3 or 4 paragraphs. Authors should provide sufficient background and a brief literature review to outline existing methods or solutions, highlight the most relevant previous research (preferably not more than 5 years old), identify key limitations of these studies, and explain how the current work aims to address these gaps. The authors are encouraged to cite relevant references from Eksergi as well (3 to 5 titles). The scientific merit or novelty of the paper should also be clearly presented. Avoid including an exhaustive literature review or summarizing individual studies author by author. Instead, group the literature by method or topic, referencing multiple sources as appropriate. The objectives of the study should be stated at the end of the introduction. For example, a novelty or gap analysis statement might be: '...... (brief background summary)...... While some researchers have focused on, there have been few studies addressing Therefore, this research aims to The objectives of this study are

2. Materials and Methods

The Materials and Methods section should provide enough detail to ensure the experiment can be accurately reproduced by readers. Include sufficient information to allow replication of the work. For methods already published, cite the appropriate reference, and only describe any relevant modifications made. Avoid repeating details of established methods. When mentioning chemicals, specify the brand and purity (e.g., CaO (Merck, 99.5%)).

2.1. Format

EKSERGI accepts original manuscript, review paper, short paper, and communications in English that has not been submitted nor published elsewhere. Please follow this template to write down your manuscript. For the original research paper, the length of the paper is 6 pages, while the review paper is 12 pages minimum including tables and figures (Aumeerun et al., 2019). Manuscripts should be typed using Microsoft Word on A4 paper (210 x 297 mm) with a top margin of 2.55 cm, bottom margin of 2.87 cm, left margin of 1.61 cm, and right margin of 1.61 cm.

The authors may use language editing service or artificial intelligence (AI) program to edit the language (i.e. using ChatGPT) and state it in the statement section. The text should be justified (aligned left and right), in Times New Roman font size 10, single-spaced, with a 25 mm margin on all sides. The layout should be in two columns, with a column margin of 7.5 mm. The length of research reports should be at least 6 pages, while review articles should be a minimum of 12 pages, including tables and figures. Manuscripts should include an Abstract, Introduction, Methodology, Results and Discussion, Conclusion, Recommendations (if any), Acknowledgements (if any), Statement, CRediT authorship contribution statement, Declaration of competing interest, Data availability, and

References. Tables or Figures in the form of graphs must be original (not photocopies) (Mobin et al., 2019).

2.2. Naming of the authors

Author names should be in 10 pt Times New Roman with 6 pts above and 6 pts below. Author addresses are superscripted by numerals and centered over both columns of manuscripts. Professional positions/ titles such Mr., Mrs., Professor, Dr., Production Manager etc., are to be avoided. The author's name in the manuscript should not be abbreviated.

In citations, the author's name should be written according to APA 7th edition citation guidelines. The author's name should be written in 10-point Times New Roman font. The institution name, city, postal code, and country should be italicized, centered, and numbered according to the affiliation numbering.

3. Results and Discussion

The **Results** section should be clear and concise, focusing on summarizing scientific findings rather than presenting extensive data. Emphasize any differences between your results and previous research publications.

The **Discussion** section should interpret the significance of the results without simply repeating them. A combined Results and Discussion section is often suitable. Avoid excessive citations or lengthy discussions of previously published literature.

The **Discussion** is the most critical part of your article, where you can highlight the importance of your findings. The discussion should correspond directly to the results without restating them. It typically begins with a brief summary of the key scientific findings (not experimental details). It should address the following points: How do your results relate to the original questions or objectives stated in the Introduction (what)? Do you provide a scientific interpretation for each of your findings (why)? Are your results consistent with those of other researchers (what else), or are there notable differences?

Tables should be formatted as shown in Table 1, using 10pt Times New Roman font and single spacing. The table description should be written below the table in italics, using 8pt Times New Roman font. If a source is cited for the table, it should be marked with an asterisk and listed below the table. There should be a single space between the table and the preceding or following paragraph. The word "Table" should be bolded, but the table description should not.

Tables must have a clear and concise title, allowing readers to understand the general meaning without referring to the text. The layout of all tables should be consistent throughout the document.

Horizontal lines should be placed above and below table headings, above the subheadings and at the end of the table above any notes. Vertical lines should be avoided.

If a Table is too long to fit onto one page, the table number and headings should be repeated on the next page before the table is continued. Alternatively, the table can be spread

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over two consecutive pages (first on even-numbered, then on odd-numbered page).

Tabel 1. Nilai K. dengan P/A (Watt/ft²)

Tabel 1. Tillal IX, deligan 1/11 (watt/it)	
Satuan kecepatan angin	K
ft/sec	1.61 x 10 ⁻³
Mile/jam	5.08 x 10 ⁻³
Km/jam	1.22 x 10 ⁻³
m/det	5.69 x 10 ⁻²
Knot	7.74 x 10 ⁻³

Keterangan: Konversi Watt/ft² = 10.76 Watt/m²

3.1. Figures

Images should be presented as shown in Figure 1, with the image label in 10pt font. There should be a single space between the text preceding the image/table and the image/table itself. Similarly, a single space should separate the table or image from the following text. The description for tables should be written above the table, aligned to the left, and numbered sequentially (1, 2, 3, etc.). If a table is taken from another source, indicate the source and mark the table number with an asterisk (*). Images must be clear, visible, and legible, with a resolution of 300 dpi (WHO, 2020).

The word "Figure" should be bolded, except for the figure description. There should be one space between the image and the preceding or following paragraph. The figure description should be placed below the image, aligned to the left if it's long, or centered if it's short, and numbered sequentially (1, 2, 3, etc.). There should be a single space between the figure description and the following sentence. If the image is sourced from another publication, cite the source after the description.

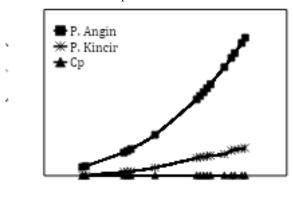


Figure 1. Wind velocity Vs. Power and efficiencies (Nur et al., 2019)

3.2. Equations

Equations should be clearly written, without being scanned, and formatted using the equation editor in Microsoft Word. Equations should be written in 10pt font. Equations must be aligned flush-left with the text margin and should be preceded and followed by a blank line (Hashemian et al.,

$$NPV = -I_0 + \sum_{1}^{n} \frac{B - C}{1 + r^2}$$
 (1)

$$t_{PB} = \frac{-\ln(1 - \frac{I_0 r}{CF})}{\ln(1 + r)}$$
 (2)

$$IRR = r_1 + \frac{(r_2 - r_1)(NPV_1)}{NPV_2 + NPV_1}$$
(3)

Remakrs:

- NPV is the net present value.
- t_{PB} is dynamic payback period,
- IRR is the internal rate of return,
- I₀ is the initial investment.
- B represents the benefits in the project life,
- r is the interest rate (assumed to be 10%), and
- C represents the costs.

4. **Conclusions**

The Conclusions section should directly address the research objectives, explaining how your work advances the field beyond the current state of knowledge. Without clear conclusions, reviewers and readers may struggle to evaluate the significance of your work and its suitability for publication. Avoid repeating the Abstract or merely listing experimental results. Instead, provide a solid scientific rationale for your study, and highlight potential applications and extensions. Additionally, suggest future experiments or mention ongoing research that could further develop the findings.

Acknowledgments

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.

Statement

The authors may use third party program or language editing service in writing the manuscript. Please state in this section if the authors use AI.

During the preparation of this work the authors used ChatGPT 3.5 in order to improve English language and proofread the text. After using this tool/service, the authors reviewed and edited the content as needed and take full responsibility for the content of the publication.

CRediT authorship contribution statement

Please refer to https://credit.niso.org/

Muhamad Maulana Azimatun Nur: Writing – review & editing, Writing – original draft, Visualization, Validation, Resources, Investigation, Formal analysis, Conceptualization. Resti Nurmala Dewi: Writing – original draft, Visualization.

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

Data availability

Please state the data availability in here Examples:

No data was used for the research described in the article. The data that has been used is confidential.

The data may be shared upon request

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). All publications cited in the text should be included as a list of references.

The References section generally follows the APA 7th edition format. References should be written using the name-year system and arranged alphabetically. Only include references that are directly relevant to the content of the manuscript. Below are examples of how to format references from various sources:

Journal,

Nur, M. M. A., & Buma, A. G. (2019). Opportunities and challenges of microalgal cultivation on wastewater, with special focus on palm oil mill effluent and the production of high value compounds. *Waste and Biomass Valorization*, 10, 2079-2097.

Nur, M. M. A., Muizelaar, W., Boelen, P., & Buma, A. G. J. (2019). Environmental and nutrient conditions influence fucoxanthin productivity of the marine diatom Phaeodactylum tricornutum grown on palm oil mill effluent. *Journal of applied phycology*, 31(1), 111-122. **Books**

Aumeerun, S., Soulange-Govinden, J., Driver, M. F., Ranga, R. A., Ravishankar, G. A., & Hudaa, N. (2019).

Macroalgae and microalgae: novel sources of functional food and feed. In *Handbook of algal technologies and phytochemicals* (pp. 207-219). CRC Press.

Section in Book

Hashemian, M., Ahmadzadeh, H., Hosseini, M., Lyon, S., & Pourianfar, H. R. (2019). Production of microalgae-derived high-protein biomass to enhance food for animal feedstock and human consumption. In *Advanced bioprocessing for alternative fuels, biobased chemicals, and bioproducts* (pp. 393-405). Woodhead Publishing.

Proceeding

Mobin, S. M., Chowdhury, H., & Alam, F. (2019). Commercially important bioproducts from microalgae and their current applications—A review. *Energy Procedia*, *160*, 752-760.

Internet (online)

World Health Organization (WHO). (2020, Desember 1). When and how to use masks. https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public/when-and-how-to-use-masks