

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

TITLE OF PAPER

[Title: Uppercase, Bold, Times New Roman, Font Size 16, Centered;

Page margin of top, bottom, left and right = 2.54 cm]

ALI AHMAD^{1*}; JOHN VIRK² and XING TAN³

[Uppercase, Bold, Times New Roman, Font Size 12, Centered, Superscript 1, 2, 3 *etc.* To Indicate Affiliation, Superscript * To Indicate Corresponding Author]

¹ Malaysian Palm Oil Board, 6 Persiaran Institusi, Bandar Baru Bangi, 43000 Kajang, Selangor, Malaysia.

² Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor, Malaysia.

³ Malaysian Timber Industry Board, 42700, Banting, Selangor, Malaysia.

[Indicate authors' affiliation with superscript 1, 2, 3, *etc.* and start each address on new line, Times New Roman, font size 12]

**Corresponding author e-mail: aliahmad@mpob.gov.my* [Times New Roman, italic, font size 12]

ABSTRACT

An abstract is required for every paper. Your abstract should give readers a brief summary of your article. It should concisely describe the contents of your article, and include key terms. It should be informative, accessible and not only indicate the general scope of the article but also state the

23 main results obtained and conclusions drawn. The abstract should be complete in itself; it should
24 not contain undefined abbreviations and no table numbers, figure numbers, references or equations
25 should be referred to. It should be suitable for direct inclusion in abstracting services and should
26 be within 150-200 words.

27

28 **Keywords:** anaerobic-aerobic, biogas, biological oxygen demand, palm oil.

29 [3-5 words; lowercase, Times New Roman; font size 12; arrange alphabetically]

30

31 **Received:** [JOPR use only] ; **Accepted:** [JOPR use only] ; **Published Online:** [JOPR use only]

32

33

34

35

INTRODUCTION

36 [All first order headings use Times New Roman, font size 12, bold and centered]

37 The paper must be in British English. Naturally, your paper should start with a concise and
38 informative sentence describing the title of the article (Ali *et al.*, 2020). Ali *et al.* (2020) is the
39 reference style to be cited in JOPR manuscript. Do not use abbreviations in it. Next, list all authors
40 with their first names or initials and surnames (in that order). Indicate the author for
41 correspondence. After having listed all authors' names, you should list their respective affiliations.
42 Link authors and affiliations using superscript lower-case letters. In general, the contents should
43 comprise of Introduction, Materials and Methods, Results and Discussion, Conclusion,
44 Acknowledgement and References. The manuscript should be supplied with 3-5 keywords.

45 Authors are expected to consider carefully the list and order of authors before submitting
46 their manuscript and provide the definitive list of authors at the time of the original submission.
47 Any addition, deletion or rearrangement of author names in the authorship list should be made
48 only before the manuscript has been accepted and only if approved by the journal Editor. To
49 request such a change, the Editor must receive the following from the corresponding author: (a)
50 the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors
51 that they agree with the addition, removal or rearrangement. In the case of addition or removal of
52 authors, this includes confirmation from the author being added or removed. No additions,
53 deletions or changes to authorship of a paper will be permitted after the article is accepted.

54

55 **MATERIALS AND METHODS**

56 You will usually want to divide your article into first order headings and second order headings
57 (perhaps even third order headings). Headings should reflect the relative importance of the
58 sections. Methods should be described in past tense as you are describing work that was carried
59 out to achieve the objective of the study.

60

61 **Journal of Oil Palm Research** [Second order headings should be bold, Times New Roman, font
62 size 12, capitalised each first word.]

63 Journal of Oil Palm Research (JOPR) is an international refereed journal on various aspects of oil
64 palm and/or palm oil. The journal is circulated extensively within Malaysia as well as other
65 countries to individuals, commercial organisations, agencies related with oil palm and palm oil,
66 abstracting companies and academic institutions. JOPR covers the study and exploitation of areas
67 such as Biology & Sustainability, Food technology, Oleochemistry, Breeding and Engineering.

68 Authors should clearly define their category of work in cover letter. The journal publishes research
69 articles, reviews and short communication whose content and approach are of interest to a wide
70 range of scholars.

71 In order to maintain the high standards associated with JOPR, papers submitted are
72 thoroughly scrutinised on their quality especially in their originality, context and universality of
73 the findings. Of course, they have to be readable with Standard English language. Every paper
74 published should preferably be at the cutting edge of science, or sharing something new and
75 exciting.

76

77 [Third order headings should be bold, italic, Times New Roman, font size 12, capitalised the first
78 word]

79 **Regular article.** Full-length original empirical investigations, consisting of introduction, materials
80 and methods, results and discussion, conclusions. Original work must provide references and an
81 explanation on research findings that contain new and significant findings. Conclusion should be
82 brief and focus on the research output, should not be in point form. These papers should not exceed
83 6000 words of text (including tables, figures and references) and generally not more than a total
84 of 10 figures and tables. After peer-review, the article word count limit can be extended to a
85 maximum of 8,000 words to better address the reviewers' and editors' comments. Any additional
86 figures or tables can be included in the supplementary data. Please note that papers submitted to
87 JOPR will be sent back to authors because of poor figure resolution or exceeding the number of
88 figures permitted.

89

90 [Third order headings should be bold, italic, Times New Roman, font size 12, capitalised the first
91 word]

92 ***Short communication.*** Significant new information to readers of the Journal in a short but
93 complete form. Preferably not exceeding 3000 words (including tables, figures and references),
94 and is intended for rapid publication. They are not intended for publishing preliminary results or
95 to be a reduced version of Regular papers.

96
97 ***Review article.*** Critical evaluation of materials about current research that have already been
98 published by organising, integrating, and evaluating previously published materials. Re-analyses
99 as meta-analysis and systemic reviews are encouraged. Review articles provide systemic overview,
100 evaluation and interpretation of research in a given field. They should not exceed 12 000 words
101 (excluding references only) and should contain no more than a total of 20 figures and tables. Any
102 additional figures or tables can be included in the supplementary data. Please note that papers
103 submitted to JOPR will be sent back to authors because of poor figure resolution or exceeding the
104 number of figures permitted. The same information should not be repeated in a figure and a table.
105

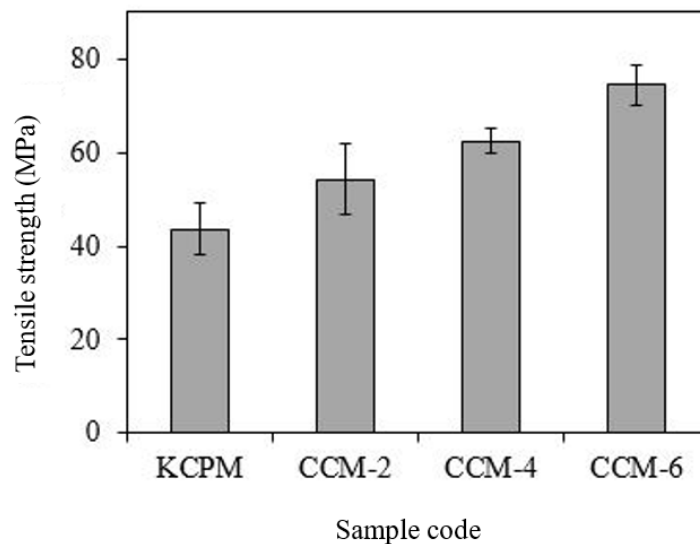
106 **RESULTS AND DISCUSSION**

107 All illustrations must be labelled and supplied on after introducing in the text. The illustrations of
108 photographs, schemas, graphs and diagrams are to be referred as figures. Figure is to demonstrate
109 trend or leading to a conclusive statement, and is a raw spectrum or chromatography that should
110 be accepted in a scientific articles. Figures should be placed at the top or bottom of a page wherever
111 possible, as close as possible to the first reference to them in the paper. These illustrations should
112 be referred to and numbered serial, as figures (*Figure 1*). All Tables and Figures cited in the text

113 must be in italics e.g. *Figure 1*. The figure number and caption should be typed below the
114 illustration in Times New Roman, font size 12, italic and centered as shown in *Figure 1* and 2.



115
116 *Figure 1. Illustration text and caption should be Times New Roman,*
117 *font size 12, italic, centered and included in body text.*
118



119
120 *Figure 2. All the text and number in the illustrations must be in Times New Roman*
121 *and font size 12. Lettering and symbols should be clearly defined in the caption.*
122

123 Keep text in the illustrations themselves to a minimum but explain all symbols and
124 abbreviations used. All the text and number in the illustrations must be in Times New Roman and
125 font size 10. Please indicate the Y & X-axis as well as the unit measurement. Lettering and
126 symbols should be clearly defined in the caption. Please ensure that all the figures are of at least

127 500 dpi resolutions as this will facilitate good output. The high resolution of each figure should
128 also be uploaded in ScholarOne system as separate image (in PNG or JPEG format). All
129 illustrations should be clearly drawn in permanent ink or photographed in sharp black and white
130 and reproduced in the form of high contrast glossy prints or digital images and provided in camera
131 ready form.

132 All tables must be labelled and supplied on after introducing in the text. Tables should be
133 placed at the top or bottom of a page wherever possible, as close as possible to the first reference
134 to them in the paper. These tables should be referred to and numbered serial, as tables (*Table 1*).
135 Every table should have a caption and headings should be placed above tables. The table number
136 and caption should be typed in uppercase, Times New Roman, font size 12, bold, and centered.

137

138
139

**TABLE 1. UPPERCASE, TIMES NEW ROMAN,
FONT SIZE 12, BOLD AND CENTERED**

Type	Title two	Title three	Title four	Title five	Title six
A	12	16	11	11	10
B	1	4	7	6	2
C	15	5	9	4	17

140
141

Source: World (2020).
Note: FFA - free fatty acid; SA- stearic acid.

142

143 All the text and number in the tables must be in Times New Roman, font size 10 and
144 centered. In the table heading, no initial capitals except for the first word. Lettering and symbols
145 should be clearly defined either in the caption of the table. Only horizontal lines should be used

146 within a table, to distinguish the column headings from the body of the table, and immediately
147 above and below the table. *Table 1* is an example which the authors may find useful. Please ensure
148 that the data presented in figures or tables do not duplicate results described elsewhere in the
149 article.

150 References in the text should be denoted by giving the name(s) of the author(s). All
151 alphabetically ordered references list should be included at the end of the manuscript. All
152 references cited in the text must appear in the reference list and vice versa. Authors are responsible
153 for the accuracy and completeness of all information in the reference. Manuscripts must confirm
154 to the references in *Journal of Oil Palm Research* (JOPR) Style. The references style adopted
155 should be consistent throughout the manuscript.

156 Below are the examples for journal articles, books, books chapter, proceedings, website,
157 thesis and others.

158

159 **a) Books with One or More Authors**

160

161 Name of author(s) (Year of Publication). Title of book (italic in print, underlined in typescript),
162 edition, volume, name of publisher, Publisher's location, first and last pages of portions referred
163 to.

164

165 Anonymous work may be cited with 'Anon' in place of the author's name.

166

167 *e.g.* Ariffin Darus (2000). Major diseases of oil palm. *Advances in Oil Palm Research* (Yusof
168 Basiron; Jalani, B S and Chan, K W eds.). MPOB, Bangi. p. 596-623.

169

170 MPOB (2019). *Malaysian Oil Palm Statistics 2019*. 39th edition. MPOB. Bangi. 207
171 pp.

172

173

174 **b) Journal Articles**

175

176 Name of author(s) (Year of publication). Title or article. Abbreviated name of journal (italics),
177 first and last page of the article, DOI Number.

178
179 *e.g.* Parveez, G K A; Bahariah, B; Ayub, N H; Masani, M Y A; Rasid, O A; Tarmizi, A H and
180 Ishak, Z (2015). Production of polyhydroxybutyrate in oil palm (*Elaeis guineensis* Jacq.)
181 mediated by microprojectile bombardment of PHB biosynthesis genes into embryogenic
182 calli. *Front. Plant Sci.*, 6: 598. DOI: 10.3389/fpls.2015.00598.

183
184 Kushairi, A; Ong-Abdullah, M; Nambiappan, B; Hishamuddin, E; Izzudin, Z B;
185 Razmah, G; Subramaniam, V; Sundram, S and Parveez, G K A (2018). Oil palm economic
186 performance in Malaysia and R&D progress in 2018. *J. Oil Palm Res.*, 31(2):
187 165-194. DOI: 10.21894/jopr.2019.0026.

188
189 **c) Non-English References**

190
191 Name of author(s) (Year of publication). Title of article. Name of publication (italics)
192 (abbreviated, if journal), volume, issue number (if relevant), first and last page of article.
193 Particular care should be taken with diacritical marks: they should be checked against the
194 original and inserted by hand on the typescript (if necessary).

195
196 *e.g.* Reyes Cuesta, R; Bastidas Perez, S and Pena Rojas, E A C (1997). Distribucion del sistema
197 radical de la palma de aceite (*Elaeis guineensis* Jacq.) en Tumaco, Colombia. *Revista*
198 *Palmas*, 18: 49-57.

199 **d) Paper Accepted but Not Yet in Print**

200
201 Name of author(s) (Year of publication). Title or article. Name of publication (italics)
202 (abbreviated, if journal). DOI:

203
204 *e.g.* Ooi, T L; Yong, K C; Dzulkefly, K; Wan Yunus, W M Z and Hazimah,
205 A H (2002). Crude glycerine recovery from glycerol residue waste from a palm kernel oil
206 methyl ester plant. *J. Oil Palm Res.* DOI: 10.21894/jopr.2019.0026.

207
208 **e) Paper Presented at a Conference**

209
210 Name of author(s) (Year of presentation). Title of paper. Title of conference *etc.* Place, Date,
211 Month and Year.

212
213 *e.g.* Yusof Basiron (2002). Palm oil stock reduction through biofuel program. Paper presented

214 at the National Seminar on Positioning the Malaysian Palm Oil Industry in Challenging
215 Times. Equatorial Hotel, Bangi. 20 February 2001.

216

217 **f) Personal Communication**

218

219 Name of person or organisation (Year) Personal Communication. Place.

220

221 *e.g.* Rosidah Radzian (2017). Personal communication. Malaysian Palm Oil Board, Bangi,
222 Selangor, Malaysia.

223

224 **g) Paper in Published Proceedings of Conference, Congress, etc.**

225

226 Name of author(s) (Year of publication). Title of article. Title of proceedings (*italics*) *etc.* Place,
227 Year, First and last page of article.

228

229 *e.g.* Mohd Basri Wahid; Norman Kamarudin; Jackson, T and Zulkifli Masijan (2003).
230 Occurrence of parasitic nematodes *Elaeolenchus parthenonema* in the pollinating weevil,
231 *Elaeidobius kamerunicus* and its possible implications on fruit set. *Proc. of the PIPOC*
232 *2003 International Palm Oil Congress - Agriculture Conference*. MPOB, Bangi. p. 425-
233 448.

234

235 **h) Thesis**

236 Name of person (Year). Title. Degree for which thesis was written. Name of University,
237 location.

238

239 *e.g.* Parveez, G K A (1998). *Optimization of parameters involved in the transformation of oil*
240 *palm using the biolistics method*. Ph.D thesis, Universiti Putra Malaysia.

241

242 *e.g.* Zainab Idris (1998). *Lipase-catalysed synthesis of fatty aminoesters from fatty acids and*
243 *triethanolamine*. Masters thesis, Universiti Putra Malaysia.

244

245 **i) Unpublished Data**

246

247 Name of person. Unpublished data. Name of organisation or institution, location.

248

249 *e.g.* N Balu. Unpublished data. Malaysian Palm Oil Board, Bandar Baru Bangi, Selangor,
250 Malaysia.

251

252 **j) Website**

253
254 Website. (Year). Title of article. (Link), accessed on (date accessed).
255

256 *e.g.* Transparency Market Research (2016). Nutrigenomics market - global industry analysis,
257 size, share, growth, trends and forecast 2012-2018.
258 <http://www.transparencymarketresearch.com/nutrigenomics-market.html>, accessed on 14
259 March 2016.

260
261 *e.g.* Harrison- Dunn, A-R (2015). Nestle files casein infant formula patent for better insulin
262 sensitivity. [http://www.nutraingredients.com/Research/ Nestle-files-casein-infant-](http://www.nutraingredients.com/Research/Nestle-files-casein-infant-formula-patent-for-betterinsulin-sensitivity)
263 [formula-patent-for-betterinsulin-sensitivity](http://www.nutraingredients.com/Research/Nestle-files-casein-infant-formula-patent-for-betterinsulin-sensitivity), accessed on 14 March 2016.

264
265 **k) Others**

266
267 *e.g.* Junaidah, J; Kushairi, A; Isa, Z A; Mohd Din, A; Noh, A and Rajanaidu, N (2004). PS7:
268 High bunch index breeding population. *MPOB Information Series No. 228*.

269

270

271 **CONCLUSION**

272 Manuscripts should be submitted via: <https://mc04.manuscriptcentral.com/jopres>. It is the author's
273 responsibility to ensure that his or her submitted work does not infringe any existing copyright.

274 Authors should obtain permission to reproduce or adapt copyrighted material and provide evidence

275 of approval upon submitting the final version of a manuscript. Manuscripts will be reviewed by

276 the Editorial Board and at least one independent referee. Decisions regarding the publication of a

277 manuscript will be based on the Board's recommendations. The manuscript will be evaluated based

278 on its appropriateness for JOPR), contribution to the discipline, cogency of analysis, conceptual

279 breadth, clarity of presentation and technical adequacy. Manuscripts submitted by members of the

280 journal's Editorial Board are subjected to the same review procedure.

281

282

283

ACKNOWLEDGEMENT

284 The information presented in the acknowledgment section should be kept brief, identify the
285 contributors responsible for specific parts of the project. It should only mention people directly
286 involved with the project from a sponsoring institution, other researchers who have helped in the
287 preparation. This template gives formatting guidelines for authors preparing papers for publication
288 in the JOPR. The authors must follow the instructions given in the document for the papers to be
289 published.

290

291

REFERENCES

292

[Arrange alphabetically]

293 Ahmad, A L; Ismail, S and Bhatia, S (2003). Water recycling from palm oil mill effluent (POME)
294 using membrane technology. *Desalination*, 157(2): 87-95.

295 Azmi, N S and Yunos, K F M (2014). Wastewater treatment of palm oil mill effluent (POME) by
296 ultrafiltration membrane separation technique coupled with adsorption treatment as pre-treatment.
297 *Agric. Agric. Sci. Procedia*, 2(15): 257-264.

298 Basri, M; Yacob, S; Hassan, M; Shirai, Y; Wakisaka, M; Zakaria, M and Phang, L (2010).
299 Improved biogas production from palm oil mill effluent by a scaled-down anaerobic treatment
300 process. *World J. Microb. and Biotech.*, 26(1): 505-514.

301 Chernicharo, C A de L (2007). Anaerobic reactors. *Biological Wastewater Treatment Series*. IWA
302 Publishing, London. p. 99-100.

- 303 Ganidi, N; Tyrrel, S and Cartmell, E (2009). Anaerobic digestion foaming causes - A review.
304 *Bioresour. Technol.*, 100(2): 5546-5554.
- 305 Hosseini, S E; Wahid, M A and Aghili, N (2013). The scenario of greenhouse gases reduction in
306 Malaysia. *Renewable and Sustainable Energy Reviews*, 28(5): 400-409.
- 307 Jeganathan, J; Nakhla, G and Bassi, A (2006). Long-term performance of high-rate anaerobic
308 reactors for the treatment of oily wastewater. *Environ. Sci. Technol.*, 40(12): 6466-6472.
- 309 Kandiah, S and Batumalai, R (2013). Palm oil clarification using evaporation. *J. Oil Palm Res.*,
310 25(2): 235-244.
- 311 Liew, W L; Kassim, M A; Muda, K; Loh, S K and Affam, A C (2015). Conventional methods and
312 emerging wastewater polishing technologies for palm oil mill effluent treatment: A review. *J.*
313 *Environ. Manage.*, 149(5): 222-235.
- 314 Loh, S K; Lian, L D; Sukiran, M A and Choo, Y M (2011). A biogas trapping facility for handling
315 palm oil mill effluent (POME). *MPOB Information Series 564, MPOB TT No. 491.*
- 316 Loh, S K; Lai, M E; Ngatiman, M; Lim, W S; Choo, Y M; Zhang, Z and Salimon, J (2013). Zero
317 discharge treatment technology of palm oil mill effluent. *J. Oil Palm Res.*, 25(2): 273-281.
- 318 Ma, A N (1999). Innovations in management of palm oil mill effluent. *The Planter (Malaysia)*,
319 *Kuala Lumpur 75(881)*: 381-389.
- 320 Ma, A N (2000). Environmental management for the oil palm industry. *Palm Oil Developments*,
321 30: 1-10.
- 322 Yacob, S; Hassan, M A; Shirai, Y; Wakisaka, M and Subash, S (2006). Baseline study of methane
323 emission from anaerobic ponds of palm oil mill effluent treatment. *Sci. Total Environ.*, 366(2):
324 187-196.