

## 「台灣農業研究」稿約

- 一、本刊為農業部農業試驗所發行之學術性期刊(季刊)，刊登國內、外農業試驗研究相關之研究稿件：

專題論述：由本所期刊編審會或總編輯邀請專家撰寫。

研究報告：關於農業科學未曾發表之研究報告，按題目、作者、摘要、前言、材料與方法、結果、討論、結論(一般略去，或併入討論)、誌謝(可略去)、引用文獻等依序撰寫，表與圖附於其後，全文以不超過10印刷頁為原則。其中，‘結果’與‘討論’如有必要，可合併成‘結果與討論’。

研究簡報：關於農業科學未曾發表之簡短原始研究報告，不須分章節撰寫(亦可參照研究報告次序)，但須附中英文摘要，全文以不超過4印刷頁為原則。

- 二、稿件應以中文或英文撰寫，以文書軟體MS WORD<sup>®</sup>格式儲存成檔案(檔案類型以Word 97-2003或以上版本文件為佳)。文稿以A4大小(長29.6公分，寬21公分)兩倍行高(double space)繕打，加行號，12號字體，左邊對齊，版面應預留上下3公分，左右2公分之空間，並自第二頁起在右下角以阿拉伯數字註明頁數。撰寫時，中文以細明體、英文以Times New Roman字體打字；英文字距及句距皆一字節。

- 三、投稿者在本刊線上投審系統首頁(<http://www.ipress.tw/J0042>)點選‘投稿’，確認及點選稿件已依照稿約撰寫無誤後，下一步即填寫稿件資料，務請填寫封面信函，再依序填寫作者資料、上傳檔案及確認提交。

- 四、稿件格式：

題 目：宜簡短，能充分反應文旨，並附簡題(Running title)(中文12字；英文6字以內為原則)。英文題目除介系詞、連接詞等字外，每字第一字母應大寫。報告如有機關所屬編號，請列於誌謝。

作 者：作者姓名置中，作者二人或二人以上時，以中文一全形空格間隔之；英文姓名則名在前姓氏在後，作者二人或二人以上時，以“,”相隔，最後一人前加“and”字樣，其表示方法如Chen-Seng Huang, Chen-Chang Chen, and Chyr-Guan Chen。每一作者須附小註，以說明所屬機關單位與職稱，通訊作者附予星號“\*”，並須附電子郵件信箱。題目與作者同置第一頁。

摘 要：不分段落、宜簡潔明確。摘要之前應加作者、年代、題目、期刊、及卷期，摘要之後應附關鍵詞(Key words)，關鍵詞不超過五個，每個英文關鍵詞第一字母應大寫。摘要以不超過五百字為原則。以中(英)文發表者須附英(中)文摘要，置於本文之後，且內容須與中(英)文摘要相符，並附通訊作者、作者之小註。

本 文：依序為前言(INTRODUCTION)、材料與方法(MATERIALS AND METHODS)、結果(RESULTS)、討論(DISCUSSION)、結論(CONCLUSIONS)、誌謝(ACKNOWLEDGMENTS)、引用文獻(REFERENCES)。除學名、專有名詞、化學式、數學公式、數字、度量衡單位及縮寫外，文句中不得中外文並用，需使用英(外)文以助明瞭時，須將英(外)文括號置於中文之後。材料與方法、結果兩部分如有必要須分段(節)，每一段內並可再分小段，以助明瞭文稿內容。各段題目(heading)單行置於該段之前，小段題目(subheading)直接置於小段之首。如因結果繁複不易聯接討論，可合併成‘結果與討論(RESULTS AND DISCUSSION)’。如有附錄，請置於引用文獻之後。

表 格：

1. 每一表格應分別繕製，須以MS WORD®中“表格”工具製作，上方須有標題，以句點結尾，並按文中出現順序加上表1. (Table 1.)，表2. (Table 2.) 等冠號。
2. 中文稿之表格標題應中英文並列，冠號與表幅齊頭，表內項目及內容以英文書寫。英文標題及各欄英文細目，除第一字之第一字母大寫外，餘均小寫。單位使用SI units (如  $\text{g L}^{-1}$ 、 $\text{Mg ha}^{-1}$ 、 $\text{m s}^{-1}$ )，一律單數、英文字母。
3. 表格應加分析、簡化與歸納後始可列表。每一表格應在文中標示清楚，以便對照，且每一表格應單頁製作。
4. 表中內容如需說明，均須附加小註，以z, y, x, ...等縮小小寫字母置於右上角，並於表下依次敘述。表格僅列橫線。星號“\*” (5%顯著性水準)、“\*\* (1%顯著性水準)” 保留統計顯著性使用。
5. 性質類同之圖與表，務請精簡與合併。

圖 片：

1. 手繪圖版以黑色墨水於白色紙上分別繪製，掃描後存成JPG電子檔 (或JPEG電子檔) 上傳。如以電腦繪圖，力求清晰，亦存成JPG檔 (或JPEG檔) 上傳，或直接貼於本文之後。請勿使用MS Office內建軟體繪圖，建議使用專業繪圖軟體 (如Sigma Plot) 繪製。
2. 圖中所有標示應以英文書寫 (Arial字型) 或註明於標題之後小標一律以(A), (B), (C), ...編號，編號以置入圖框為原則，分類學則可以1, 2, 3, ...標示。
3. 照片以光面紙為原則，清晰度以縮小50%可判讀為宜。多幅照片儘量製成併版；如有特別指明，應加圈或箭頭表明。顯微照相，應加比例尺大小；照片大小以不超過版面 (25 cm × 18 cm) 為宜，掃描後存成JPG檔 (或JPEG檔) 上傳，解析度300 dpi或以上，並直接貼於本文之後。
4. 圖版及照片應有標題，並按文中出現的順序加上 (圖1) (Fig. 1)、(圖2) (Fig. 2) 等冠號，在文中須標示清楚，以便對照。中文稿標題應中英文併列，英文稿標題以英文書寫即可，力求明確。
5. 除併圖外，每一圖片應單頁製作。
6. 圖版及照片未達印製之解析度要求，文稿將不予刊登。

誌 謝：不分段落，包括人物、經費來源、報告之機關賦予編號等。誌謝可略去。

引用文獻：

1. 列舉確實曾引用之文獻。文獻以登載於學術性期刊、書籍、研討會之文章及學位論文為限 (不含推廣報告)，如引用網路學術性報告，須加註瀏覽、下載日期及網址路徑。
2. 文中涉及引用文獻時，根據該文獻的作者與年代加以括號：如 (Sung 1991)、(Lo 1991, 1992)、(Chen & Ho 1983)、(Sung 1991; Hsu *et al.* 1992)，以年代先後為序置於引用文處。
3. 文獻一律以英文撰寫，以姓名字母為序。作者相同時以年代先後為序。
4. 文獻之書寫方法以期刊為例，依序為作者、年代、題目、期刊、卷數、頁數。在每卷每期之頁碼都從數字 1開始的期刊，才必須加上期數。
5. 期刊名須依該期刊公告之縮寫撰寫；如無者，請參照Biosciences Information Service (1992) 出版之“Serial Sources for the BIOSIS Previews Database”或依該學術領域之慣例撰寫。

6. 文獻書寫範例如下：

- (1) 原中文報告引用文獻出自學術性期刊  
Hsu, S. H., T. Y. Chung, T. C. Kuo, and S. F. Wang. 1992. Studies on the micro-climate of greenhouse. I. Light environment of greenhouse. J. Agric. China 157:34-43. (in Chinese with English abstract)
- (2) 原中文報告引用文獻出自著作性書籍  
Sung, J. M. 1991. Nitrogen Metabolism of Rice. Chinese Agronomy Press. Taipei. 100 pp. (in Chinese)
- (3) 原中文報告引用文獻出自編輯性書籍  
Yang, C. M. and C. Y. Lin. 2003. Studies on rice precision farming system. p.1-12. in: Rice Precision Farming System. (Yang, C. M. and C. Y. Lin, eds.) Taiwan Agric. Res. Inst. Pub. No. 105. Taichung, Taiwan. 252 pp. (in Chinese with English abstract)
- (4) 原中文報告引用文獻出自研討會專刊  
Chang, C. A. 2001. Application and extension of virus-free seedling for the control of virus diseases of passion fruit in Taiwan. p.31-38. in: Proceeding of Symposium on Application of Healthy Plant for Control of Plant Diseases. November 24, 2001. Taichung, Taiwan. Taiwan Phytopathol. Soc. Publ., Taichung. (in Chinese with English abstract)
- (5) 原報告引用文獻出自特定網頁資料  
Lehtomäki, A. 2006. Biogas production from energy crops and crop residues. Jyväskylä Stud. Biol. Environ. Sci. 163. Univ. of Jyväskylä, Jyväskylä, Finland. <https://jyx.jyu.fi/dspace/bitstream/handle/123456789/13152/9513925595.pdf> (visit on 12/16/2014)

五、單位、縮寫格式、括號及統計分析

1. 凡文中出現之數值，除非另有特別之意義，一律用阿拉伯數字書寫。數字在句首之英文稿，改以文字表示。單位則用國際公認標準符號 (SI units) 代替全文，各常用之縮寫單位參照說明如下：
  - (1) 長度：公里 (km)、公尺 (= 米) (m)、公分 (= 厘米) (cm)、公釐 (= 毫米) (mm)、微米 ( $\mu\text{m}$ )。
  - (2) 重量 (W)：公噸 (Mg)、公斤 (kg)、公克 (g)、毫克 (mg)、微克 ( $\mu\text{g}$ )。
  - (3) 容積 (V)：公升 (L)、公撮 (= 毫升) (mL)、微升 ( $\mu\text{L}$ )。
  - (4) 面積：公頃 (ha)、平方公尺 ( $\text{m}^2$ )、平方公分 ( $\text{cm}^2$ )。
  - (5) 溫度：攝氏 ( $^{\circ}\text{C}$ )、絕對溫度 (K, 但須加以說明)。
  - (6) 時間：日 (天) (d)、時 (h)、分 (min)、秒 (s)。
  - (7) 濃度：莫耳 (M)、千分之一莫耳 (mM)、當量 (N)、千分之一當量 (mN)。
  - (8) 重力加速度： $g$ 。
  - (9) 分子量：kDa。
  - (10) 肥料三要素：如以肥料種類  $\text{N-P}_2\text{O}_5\text{-K}_2\text{O}$ ，如以元素  $\text{N-P-K}$ 。
2. 其他之縮寫：平均 (avg.)、大約 (ca.)、直徑 (diam.)。
3. 括號：括號字型全以半形 ( )，括號前後各空一格。
4. 統計分析：達顯著性水準以 \*、\*\* 或處理間顯著差異區分，以 a、b、c、... 表示者均應加註顯著機率值  $P$  (例如  $P < 0.01$ )；各統計量請採慣用符號，例如相關係數 ( $r$ )、決定係數 ( $R^2$ )、變異係數 (cv)、標準差 (sd)、平均值標準差 (se) 等。
5. 其他問題：
  - (1) 單位與其前面數值之間應空一格，如 220 g。

- (2) 數學運算符號與其前後數值之間應各空一格，如 $P = 0.014$ 、 $23.6 \pm 3.0$ 、 $15 \times 2$ 。
- (3) 在 $\pm$ 、to的前後數值若含有單位，在單位相同時保留後單位即可，以減少贅詞，如 $23.6 \pm 3.0\%$ 、 $20 \text{ to } 30^\circ\text{C}$ 。在 $\times$ 的前後數值則保留，如 $15 \text{ cm} \times 2 \text{ cm}$ 。
- (4) 數值起迄符號用– (半型破折號；EN Dash)，勿用 $\sim$ 或 $-$ ，且與前後兩數值之間無須留空格，如3–6、2005–2007年、7月20–25日。
- (5) 年代一律用西元。
- (6) 濃度與容量單位使用 $\text{mg L}^{-1}$  (勿用ppm)。
- (7) 轉速單位使用 $\times g$  (勿用rpm)。

#### 六、其他注意事項

1. 本刊採網路線上投審，來稿請至本刊線上投審系統網址 (<http://www.ipress.tw/J0042>) 進行投稿作業，投稿前務請詳閱稿約及投稿須知，並可參閱最新一期報告。
2. 生物學名以斜體字表示，屬名第一字母大寫。學名於摘要、本文、每一圖表中第一次出現時，須寫全名，如*Citrus sinensis*；第二次出現時，屬名保留第一字母後加句點“.”，種名全寫，如*C. sinensis*。生物學名於本文中首次出現時應加註命名者，如*Oryza sativa* L.。
3. 中文稿件中，外文名詞應儘量翻譯成中文，若是不常見名詞應於文中第一次出現時以括號標出原文。摘要及本文中，英文縮寫於第一次出現時，須附全名。圖版及照片如有英文縮寫，應於標題中附全名，表格內之英文縮寫，須於小註附全名。
4. 農作物品種名須加上單引號，中文用「」（如水稻「台梗9號」、木瓜「台農2號」），英文用‘’ (如rice ‘TK9’, papaya ‘TNG2’)

#### 七、投稿方式

1. 稿件內容務須依照上列規定格式書寫及線上投稿，本期刊編審會保有修改與退稿之權利。文稿經本期刊接受後，由作者負責前二校。除筆誤與錯字外，作者在校稿時，不得擅自更改內容與數據。
2. 投稿前請詳閱稿約及參見最一期刊登報告，投審稿件程序請上網參閱本期刊網址：<http://www.ipress.tw/J0042>。

八、投稿本期刊之稿件，不得投稿其他刊物。稿件經本期刊接受後，刊登權屬發行單位農業試驗所所有，非經本所書面同意，不得轉載或移轉他處發表。本期刊具專屬版權，恕不受理一稿兩投之文章 (已刊載或投寄國內外有版權刊物之文章，請勿再投稿本刊)。若有上述情事除依相關法律處理責由作者自負外，本刊將列入紀錄永不受理其投稿。

九、本刊以黑白印製為原則，彩圖經編審會同意得以彩色編印。本期刊彩圖編印收費標準調整如下表，由作者自行向廠商支付，未付清前稿件將不予刊登。

彩圖編印收費標準：

總張數	總價 (元)	計價公式
1	5,000	$5,000 \times 1$
2	7,000	$5,000 \times 1 + 2,000 \times 1$
3	9,000	$5,000 \times 1 + 2,000 \times 2$
4	11,000	$5,000 \times 1 + 2,000 \times 3$
5	13,000	$5,000 \times 1 + 2,000 \times 4$
6 張以上	15,000 起	$5,000 \times 1 + 2,000 \times (n - 1)$

十、其他未盡事宜本期刊得隨時修正或補充。

# **Instructions to Authors**

## ***Journal of Taiwan Agricultural Research*** (revised on August 1 2023)

### **General Information**

The *Journal of Taiwan Agricultural Research* (JTAR) is published four issues annually by the Taiwan Agricultural Research Institute (TARI). Researchers and scientists willing to make the contribution in the fields of agricultural development by publishing their full papers of original research, reviews, or short communications in the Journal are highly welcome and appreciated. Research staff affiliated with TARI is not a requirement for publishing in JTAR. All manuscripts should be submitted online at the Journal's website, <http://www.ipress.tw/J0042>. Follow its instructions. Submissions to JTAR must not simultaneously submit to any other scientific or technical journal.

### **Scope**

After critical review and approval by the editorial board, JTAR publishes articles in plant science; biotechnology; agricultural chemistry; taxonomy of microorganism and arthropod; plant protection; agricultural engineering; agricultural economics and extension; industrial strategic management; biostatistics; and bioinformatics. Articles reporting experimentation or research findings in these fields will be peer-reviewed as research articles. Short articles (no more than 4 printed pages) concerned with experimental techniques, results, or unique phenomena will be peer-reviewed as short communications. Review articles will be under invitation by the editorial board of JTAR.

### **Style**

See the latest issue of JTAR for style and layout. General rules are as follows:

- All abbreviations should be defined at the first mention and in tables and figures, and be used throughout the entire article.
- The Latin names of organisms (e.g., plants, pathogens, insects and pests) must always list when appeared at first appearance (in Abstract or text). Give the complete binomial and authorities.
- At first listing both the common and chemical names of pesticides must be given.
- SI units must be used in the manuscript.
- Use the 24-h time system (e.g., 0200 and 1400) and abbreviate dates such as 3 October 2015 or 10/03/2015.
- Except when used with units, spell out numbers one through nine. Put commas for the decimal separator (e.g., 1,356,078 and 6,078) and place a zero before the decimal point (e.g., 0.6078 and 0.078).

### **Preparation of Manuscript Files**

All submitted manuscript files should write in Chinese or English and save it in Microsoft Word 97–2003 or later versions (.doc files or .docx files). Other word processing software is not accepted. High-resolution figure files may be included in manuscript and submitted separately in forms of .jpg files

or .doc files or .docx files, one figure per file. Do not use word processing features such as automated bulleting and numbering, head and subhead formatting, or internal linking. Text should be typed in A4 size (29.6 cm long, 21 cm wide) in double-spaced and be numbered and aligned to the left side, while tables use single-spaced. Only one font and size (font no. 12) is used. Provide the document with an upper and lower margin of 3 cm and a left and right margin of 2 cm. Starting from the second page, indicate the page number on the lower right corner. When typing the manuscript, use the font of MingLiu (細明體) for Chinese and Times New Roman for English. Leave a single space between each English word and sentence. The author submitting the manuscript should click on “Authors” on the front page of Journal’s Online Submission and Review System. Under “Author” page, click “Submit a new manuscript”. Confirm submission checklist and then complete the information related to the manuscript including a cover letter.

Follow the sequence and instructions to fill out and upload the information. JTAR adopts a double-blind review for all submitted manuscripts. Reviewers will be able to download the submitted files that authors upload to the system. There are three main types of articles published by JTAR, i.e., “Reviews”, “Research Articles”, and “Short Communications”.

**Reviews.** A review article is invited by editor-in-chief of JTAR and will be reviewed and revised to assure an appropriate style and content.

**Research Articles.** Write a research article according to the mentioned scope in the following sequence: title, author(s), abstract, and text. Attach tables, figure captions, and figures at the end of text. In general, each manuscript should not exceed 10 printed pages.

**Short Communications.** An article that has a size less than 4 printed pages concerned with experimental techniques, results, or unique phenomena may be published as a short communication when accepted.

**Title.** A title highlights the subject and purpose of the article briefly but clearly. Use common names of crops, avoid abbreviations, and limit words where possible. Except prepositions and connectives, capitalize each word in the English title. Write down the suggested running title, with no more than twelve Chinese characters or six English words, in the next sentence.

**Author.** List names of all authors below the title and place an asterisk after the corresponding author. The next sentence lists professional titles, institutions and complete addresses of all authors. Provide e-mail address of the corresponding author. Place title and author(s) on the same page.

**Abstract.** Each article has a single self-contained paragraph, containing the rationale, objectives, methods, results, and their meaning or scope of application specifically. Identify the important details to interpret the results but try not to exceed five hundred words. Do not cite references and avoid equations. In the next sentence, include no more than five key words and capitalize the first letter of each word. If the manuscript written in Chinese (English), place English (Chinese) abstract after the main text of the manuscript.

**Text.** The text includes the following sections in sequence: INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION, CONCLUSIONS (optional), ACKNOWLEDGMENTS (may be omitted), and REFERENCES. If required, combine the results and discussion section into “RESULTS AND DISCUSSION”, and incorporate the conclusions into the discussion. If there is an appendix, place



it after the references. Except necessary, do not mix English with other languages. If required, place headings and subheadings at the head of paragraphs of the sections MATERIALS AND METHODS and RESULTS.

**Tables.** Prepare tables with the tables feature of MS WORD®; do not use tab keys, space bars, or graphics boxes. Number tables consecutively with one table per page. Place tables at the end of text. Each datum needs to be contained in a defined cell. Table heads should be complete and self-contained but brief. All variables should be defined and abbreviations be spelled out in table footnotes. Follow the order of z, y, x, w, v, u, .... The \*, \*\*, and \*\*\* are used only to show statistical significance at the 0.05, 0.01, and 0.001 probability levels, respectively. Lack of significance indicates as NS. Asterisks or letters next to values indicate statistical significance and should align them in the same cell as the value. All footnotes should be set on separate lines. Capitalize only the first word in a row of the body of a table with the exception of proper nouns. Use only SI units (e.g.,  $\mu\text{g L}^{-1}$ ,  $\text{Mg ha}^{-1}$ , and  $\text{m s}^{-1}$ ) in the singular forms.

**Figures.** Provide clear contrast figures in high-resolution JPG files ( $\geq 300$  dpi) and upload them online as individual files and attach them after tables; one figure one page. Keep relative sizes of symbols, letters, and numbers as the original should be larger than the intended final size. Use English for letters in Arial font. Explain curves or symbols in a legend within the figure. JTAR will publish figures in black and white. Color figures, images, photos or maps are subject to the agreement of the editorial board and fee must be paid before the manuscript is published in the journal. Photographs and drawings for graphs and charts should be prepared with good contrast of dark and light and no more than the size of 25 cm  $\times$  18 cm. Use English for figure captions and separate captions for figures. A caption should be concise but given in sufficient detail. Define the crop or soil involved, the major variables presented, the place and year, and the abbreviations and symbols used in the caption. Indicate the scale for illustrations.

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- Reference from an academic journal written in Chinese:  
Hsu, S. H., T. Y. Chung, T. C. Kuo, and S. F. Wang. 1992. Studies on the micro-climate of greenhouse. I. Light environment of greenhouse. *J. Agric. Res. China* 157:34–43. (in Chinese with English abstract)
- Reference from a book written in Chinese:  
Sung, J. M. 1991. Nitrogen Metabolism of Rice. Chinese Agronomy Press. Taipei. 100 pp. (in Chinese)
- Reference from an edited book written in Chinese:  
Yang, C. M. and C. Y. Lin. 2003. Studies on rice precision farming system. p.1–12. *in*: Rice Precision Farming System. (Yang, C. M. and C. Y. Lin, eds.) Taiwan Agric. Res. Inst. Pub. No. 105. Taichung, Taiwan. 252 pp. (in Chinese with English abstract)
- Reference from a proceedings written in Chinese:  
Chang, C. A. 2001. Application and extension of virus-free seedling for the control of virus diseases of passion fruit in Taiwan. p.31–38. *in*: Proceeding of Symposium on Application of Healthy Plant for Control of Plant Diseases. Taichung, Taiwan. November 24, 2001. Taiwan Phytopathol. Soc. Publ., Taichung. (in Chinese with English abstract)
- Reference from a website:  
Lehtomäki, A. 2006. Biogas production from energy crops and crop residues. *Jyväskylä Stud. Biol. Environ. Sci.* 163. Univ. of Jyväskylä, Jyväskylä, Finland. <https://jyx.jyu.fi/dspace/bitstream/handle/123456789/13152/9513925595.pdf> (visit on 12/16/2014)

### Units, Abbreviations, and Statistical Analysis

Use the SI system (Système International de Unités) in JTAR. Some commonly used abbreviated units:

- Length: kilometers (km), meter (m), centimeter (cm), millimeter (mm), micrometer ( $\mu\text{m}$ )
- Weight (W): ton (Mg), kilogram (kg), gram (g), milligram (mg), microgram ( $\mu\text{g}$ )
- Volume (V): litre (L), millilitre (mL), microlitre ( $\mu\text{L}$ )
- Surface: hectare (ha), square meter ( $\text{m}^2$ )
- Temperature: Celsius ( $^{\circ}\text{C}$ ), absolute temperature (K, but must be indicated)
- Time: day (d), hour (h), minute (min), second (s)
- Concentration: mole (M), millimole (mM), normal (N), millinormal (mN)
- Gravitational acceleration:  $g$
- Molecular weight: kDa
- Three macronutrients in fertilizers: element—N-P-K ; equivalent quantity—N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O

Other abbreviations:

- Average: *avg.*
- Approximate: *ca.*
- Diameter: *diam.*
- Concentration: e.g.  $\text{mg L}^{-1}$ .
- Frequency of a rotation:  $\times g$ .



**Statistical Analysis**

Manuscripts should contain enough details of experimental design so that the results can be judged for validity and repeatability. The symbols \* and \*\* are used to show differences in statistical significance. Add *P* value (e.g.  $P < 0.01$ ) when a, b, c, ... are used to classify statistical significance. Examples of commonly used symbols: *r* for correlation coefficient,  $R^2$  for coefficient of determination, cv for coefficient of variation, sd for standard deviation, and se for standard error.

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