

Instructions to Authors

Journal of Taiwan Agricultural Research (revised on May 31, 2024)

1. This journal is an academic journal issued quarterly by the Taiwan Agricultural Research Institute (TARI). The journal publishes research articles related to agricultural experiments from both domestic and international sources:
 - **Feature Articles:** Review articles cover various agricultural scientific research topics within the scope of this journal.
 - **Research Articles:** Research reports on agricultural science that have not been previously published should be prepared sequentially with the following sections: title, author(s), abstract, introduction, materials and methods, results, discussion, conclusion (usually omitted or merged into the discussion), acknowledgments (optional), and references. Tables and figures should be included at the end of the manuscript. In general, each manuscript should not exceed 10 printed pages. The sections of “Results” and “Discussion” may be combined into one section if necessary.
 - **Short Communications:** A brief original research report related to agricultural science and not previously published will also be accepted. Although there is no need to divide into different sections as research articles, short communications should still include Chinese and English abstracts, experimental methods, materials, results, discussion, and relevant figures and tables. In general, each manuscript should not exceed 4 printed pages.
2. **Scope of the Journal:** JTAR publishes all aspects of agriculture and plant science including: biotechnology; agricultural chemistry; taxonomy of microorganisms and arthropods; plant protection; agricultural engineering; agricultural economics and extension; industrial strategic management; biostatistics; and bioinformatics. After being reviewed and accepted by the editor-in-chief, the submitted drafts (including Feature Articles, Research Articles, and Short Communications) will be reviewed by at least two ad hoc reviewers.
3. All submitted manuscript should be written in Chinese or English and saved as MS WORD® files (Word 97–2003 or above is preferred.). The main text should be double-spaced, while text in tables shall be single-spaced. Add line numbers, use a font size of 12, and align text to the left. The layout shall be set with an upper and lower margin of 3 cm and a left and right margin of 2 cm. Starting from the second page, number the pages with Arabic numerals in the lower right corner. When typing the manuscript, use the font MingLiu (細明體) for Chinese and Times New Roman for English. Leave a single space between each English word and sentence.
4. The author submitting the manuscript should click on “Submit” on the front page of the Journal’s Online Submission and Review System at <https://www.ipress.tw/J0042>. After reviewing the Submission Instructions and clicking “Accept”, proceed to fill in the manuscript details according to the system prompts. Please complete the cover letter, then proceed to fill in the author information, upload files (no need for anonymity), and confirm the submission in sequence.

5. Manuscript Format:

- **Title:** Should be concise, reflecting the essence of the article, and accompanied by a running title (no more than twelve Chinese characters or six English words). Except for prepositions and connectives, capitalize the first letter of each word in the English title. If the report has an institutional number, please list it in the acknowledgments.
- **Author:** The authors' names should be centered, with a full-width space between each author when there are two or more authors. For English names, list the given name first followed by the surname. When there are two or more authors, separate them with “,”, and use “and” before the last author's name. For example, the format should be like “Chen-Seng Huang, Chen-Chang Chen, and Chyr-Guan Chen.” Each author must provide a footnote indicating their institutional affiliation and professional titles, with the corresponding author marked with an asterisk “*”, along with their e-mail address. The title and authors should be placed on the first page.
- **Abstract:** It should be presented in a single paragraph and be concise and clear. Before the abstract, include the author, year, title, journal, and volume/issue. Following the abstract, include keywords, not exceeding five, with the first letter of each keyword capitalized. The abstract should not exceed five hundred words. Do not include references or equations in the abstract. If the manuscript is written in Chinese (English), place the English (Chinese) abstract after the main text of the manuscript with content matching that of the Chinese (English) abstract. Additionally, include the corresponding author's information and the authors' footnotes.
- **Text:** The text includes the following sections in sequence: INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION, CONCLUSIONS, ACKNOWLEDGMENTS, and REFERENCES. Except for scientific names, proper nouns, chemical formulas, mathematical equations, numbers, units of measurement, and abbreviations, do not mix English with other languages within sentences. When using English (foreign) text for clarification, place it in parentheses after the Chinese text. The MATERIALS AND METHODS and RESULTS sections should be divided into paragraphs (sections) if necessary, with each paragraph possibly further divided into smaller sections to aid in the clarity of manuscript content. Single-line headings should be placed before each section, and subheadings should be underlined and placed directly at the beginning of each subsection. If the results are complex and difficult to connect with the discussion, they can be combined into “RESULTS AND DISCUSSION.” If there is an appendix, place it after the references.
- **Tables:**
 - i. Each table should be prepared separately using the “Table” tool in MS WORD®. It should have a title at the top, ending with a period, and numbered sequentially as Table 1., Table 2., etc., according to their appearance in the text.
 - ii. The table title in Chinese manuscripts should be bilingual (Chinese and English). The items and contents within the table should be written in English. English titles and subheadings within each column should have only the initial letter capitalized, with the rest in lowercase. Use only SI units (e.g., $\mu\text{g L}^{-1}$, Mg ha^{-1} , and m s^{-1}) in the singular forms and English.

- iii. Tables should be compiled after analysis, simplification, and summarization. Each table should be clearly labeled in the text for reference, and each table should be prepared on a single page and placed sequentially at the end of the text.
- iv. If explanations are required within the table, they should be provided as footnotes marked with lowercase letters (e.g., z, y, x, ...) placed in the upper right corner and described sequentially below the table. Only horizontal lines should be used within tables. Asterisks (* for significance at the 5% level, ** for significance at the 1% level) should be retained to indicate statistical significance.

➤ **Figures:**

- i. Hand-drawn figures should be prepared in black ink on white paper and scanned into JPG electronic files (or JPEG files) for uploading. If drawn using a computer, strive for clarity and save as a JPG file (or JPEG file) for upload, or paste directly after the text. Avoid using built-in drawing software in MS Office; professional drawing software such as Sigma Plot is recommended.
- ii. All labels within the figures should be written in English (Arial font). Subsequent sub-labels should be denoted as (A), (B), (C), ... and placed uniformly after the title. The numbering should be inserted into the figure frame as a principle. For taxonomies, numbering can be indicated as 1, 2, 3, ...
- iii. Photos should preferably be printed on glossy paper, and their clarity should remain sufficient to be recognizable when reduced by 50%. Multiple photos should be combined whenever possible. If necessary, circles or arrows should be added for clarification. For photomicrographs, a scale bar should be included. The photo size should not exceed the page layout (25 cm × 18 cm). After scanning, photos should be saved as JPG files (or JPEG files) with a resolution of 300 dpi or higher and directly pasted after the main text.
- iv. Figures and photos should have titles and be sequentially numbered in the text as (Fig. 1), (Fig. 2), etc., for reference. Bilingual titles (Chinese and English) should be provided for Chinese manuscripts, while English titles are sufficient for English manuscripts, aiming for clarity.
- v. Except for combined figures, one figure is one page.
- vi. Figures and photos that do not meet the resolution requirements for printing will not be published.

➤ **Acknowledgments:** Acknowledgments should not be separated into paragraphs and should include individuals, funding sources, and institutional numbers. Acknowledgments can be omitted if necessary.

➤ **References:**

- i. List the references cited. References should be limited to articles published in academic journals, books, conference proceedings, theses, and dissertations (excluding promotional reports). If citing online academic reports, include the date of access, download, and URL path.

- ii. When referring to cited literature in the text, write the author and year of the cited references inside parentheses, for example, (Sung 1991), (Lo 1991, 1992), (Chen & Ho 1983), (Sung 1991; Hsu *et al.* 1992), listed in chronological order.

Examples of citation format:

- (1) Inoculation tests referred to Tripathi *et al.* (2008) and Twizeyimana *et al.* (2007) were conducted in laboratory settings.
 - (2) Four strains capable of causing tomato powdery mildew have been recorded in Taiwan (Tzean *et al.* 2019; Lin *et al.* 2022).
 - (3) Cheng *et al.* (2013) developed a polyclonal antiserum using the coat protein of PepMoV-TW1.
 - (4) Grooves on the pronotum were used for species identities by Medvedev (1999).
 - (5) Ushimaru *et al.* (2006) reported that the expression of rice DHAR in transgenic *Arabidopsis thaliana* enhances resistance to salt stress.
- iii. Unpublished data or personal communications should be cited in the text using parentheses and are not included in the reference list.
 - iv. For group authors such as companies, associations, government organizations, etc., abbreviations are used in the text citation, e.g., (COA 2020); the full name should be provided in the reference list for reference, e.g., Council of Agriculture (COA). 2020.
 - v. All references should be written in English. The first author is listed with the surname first, followed by the given name. Authors are sorted alphabetically by their names. Use chronological order for references with identical authorship. For non-English documents with an English abstract, a note should be added to indicate this, such as “(in Chinese with English abstract)”.
 - vi. For publications with up to 7 authors, all authors must be listed. If there are 8 or more authors, only the first 6 authors are listed, followed by an ellipsis (...) connecting the last author.
 - vii. Regarding the reference format, taking journals as an example: the sequence should be authors, year, title, journal name, volume number, and page numbers. For journals that start numbering pages from 1 in each volume and issue, the issue number should be included. For books, provide authors, year, chapter title, chapter page numbers, book title, book editors, publisher, and place of publication. For conference proceedings, provide the conference location and date. If available, include the Digital Object Identifier (DOI) at the end of each reference.
 - viii. Journal titles should be abbreviated according to the journal’s official abbreviation; if not available, refer to the “Serial Sources for the BIOSIS Previews Database” published by Biosciences Information Service (1992) or follow the conventions of the academic field.
 - ix. Some reference examples:
 - (1) Reference from an academic journal written in Chinese:
Ann, P. J., J. N. Tsai, and I. T. Wang. 2013. Phytophthora Diseases of *Cedrelela sinensis* and

Zanthoxylum ailanthoides. J. Taiwan Agric. Res. 62(1):57–70. (in Chinese with English abstract) doi:10.6156/JTAR.2013.06201.06

- (2) Reference from a book written in Chinese:
Sung, J. M. 1991. Nitrogen Metabolism of Rice. Chinese Agronomy Press. Taipei, Taiwan. 100 pp. (in Chinese)
- (3) Reference from an edited book written in Chinese:
Chang, Y. C. 2003. Bakanae disease of rice. p.256–262. *in*: Monograph of Plant Protection Ser. 8: Plant Protection of Rice. (Zou, H. J. and J. P. Shi, eds.) Bureau of Animal and Plant Health Inspection and Quarantine, Council of Agriculture, Executive Yuan. Taipei, Taiwan. 448 pp. (in Chinese)
- (4) 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. November 24, 2001. Taichung, Taiwan. Taiwan Phytopathological Society. Taichung, Taiwan. (in Chinese with English abstract)
- (5) 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)
- (6) Pre-published online version of journal article cited in the original report:
Wu, H., S. Chen, L. Zhu, Y. Xu, J. Li, N. Ling, J. Yuan, C. Xue, and Q. Shen. 2024. Identification of antibiotic resistant bacteria communities and a GeoChip based study of resistome in Fusarium wilt diseased and healthy soil. *Appl. Soil Ecol.* 193:105103. Advance online publication. doi:10.1016/j.apsoil.2023.105103
- (7) Thesis cited in the original report:
Chang, W. B. 2015. Identification of quantitative trait loci for blast resistance in Taiwan rice variety Tainung 84. Master Thesis. Department of Plant Pathology and Microbiology, National Taiwan University. Taipei, Taiwan. 126 pp. (in Chinese with English abstract)
- (8) Publication from an institution cited in the original report (with publication number, if available):
 - (8-1) Sheen, T. F. 1987. Studies on Seed Production and Vernalization of Cruciferous Crops in the Tropics. Taiwan Agric. Res. Inst. Pub. No. 21. Taichung, Taiwan. 79 pp.
 - (8-2) 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)
 - (8-3) Lin, Y. C. and K. E. Chuang. 2021. Insect protein development potential analysis in aquaculture. p.54–63. *in*: Proceedings of the Symposium on 2021 Status of Insect

Application in the Animal Feed Industry. October 19, 2021. Taichung, Taiwan.
Taiwan Agric. Res. Inst. Pub. No. 234. Taichung, Taiwan. (in Chinese with English
abstract)

6. Units, Abbreviations, Parentheses, and Statistical Analysis

- i. All numerical values appearing in the text are written in Arabic numerals unless otherwise specified. In English manuscripts, numbers at the beginning of sentences are spelled out. International System of Units (SI units) is used throughout the text instead of complete expressions. Commonly used abbreviations for units are explained as follows:
 - (1) Length: kilometers (km), meter (m), centimeter (cm), millimeter (mm), micrometer (μm)
 - (2) Weight (W): ton (Mg), kilogram (kg), gram (g), milligram (mg), microgram (μg)
 - (3) Volume (V): liter (L), milliliter (mL), microliter (μL), “L” should be capitalized uniformly.
 - (4) Surface: hectare (ha), square meter (m^2), square centimeters (cm^2)
 - (5) Temperature: Celsius ($^{\circ}\text{C}$), absolute temperature (K, but must be indicated)
 - (6) Time: day (d), hour (h), minute (min), second (s), month (mo), week (wk)
 - (7) Concentration: mole (M), millimole (mM), normal (N), millinormal (mN)
 - (8) Gravitational acceleration: g
 - (9) Molecular weight: kDa
 - (10) Three macronutrients in fertilizers: equivalent quantity—N-P₂O₅-K₂O; element—N-P-K
- ii. Other abbreviations: Average (*avg.*), Approximate (*ca.*), Diameter (*diam.*), Concentration (mg L^{-1} .)
- iii. Parentheses: Parentheses should all be in half-width (), with one space before and after the parentheses outside, and no space when encountering full-width symbols.
- iv. Statistical Analysis: The symbols * and ** are used to show differences in statistical significance or between treatments. Add *P* value (e.g., $P < 0.01$) when a, b, c, ... are used to classify statistical significance. Examples of commonly used symbols: are *r* for correlation coefficient, R^2 for coefficient of determination, CV for coefficient of variation, *SD* for standard deviation, and *SE* for standard error. Please use uppercase, lowercase, or italics for each symbol according to the traditional format.
- v. Other Issues:
 - (1) There should be one space between the numerical value and the unit, such as 220 g. However, no space is needed for $^{\circ}\text{C}$ and %.
 - (2) There should be one space before and after mathematical operators, such as $P = 0.014$, 23.6 ± 3.0 , 15×2 .
 - (3) If units are present before and after \pm or “to”, and the units are the same, the latter unit can be omitted to reduce redundancy, such as $23.6 \pm 3.0\%$, 20 to 30°C . For “ \times ”, the units before and after should be retained, such as $15 \text{ cm} \times 2 \text{ cm}$.
 - (4) Use the EN Dash (–) for numerical ranges, do not use ~ or -, and do not leave spaces between the preceding and succeeding values, such as 3–6, 2005–2007, July 20–25.
 - (5) Use the Gregorian calendar for all years.

- (6) Concentration and volume units should be expressed as mg L⁻¹ (avoid using ppm).
- (7) Rotational speed units should be expressed as × g (avoid using rpm).
- (8) Units should be expressed in exponential form, such as m/s as m s⁻¹, and mg/mL as mg mL⁻¹.
- (9) When referring to dilution factors in Chinese manuscripts, use the word “times” (倍) instead of “×”.

7. Other Notes:

- i. This journal adopts online submission and peer review. Authors are requested to submit their manuscripts through the journal's online submission system at the following website (<https://www.ipress.tw/J0042>). Before submission, authors are advised to carefully read the guidelines and instructions for submission and may refer to the latest issue for reference.
- ii. Scientific names should be italicized, with the first letter of the genus capitalized. In abstracts, the main text, and each figure/table, the full scientific name should be written out the first time it appears, such as *Citrus sinensis*; subsequently, the genus name should be abbreviated with the first letter followed by a period “.”, and the species name written in full, such as *C. sinensis*. When a scientific name first appears in the text, the name of the author should be included, such as *Oryza sativa* L..
- iii. In Chinese manuscripts, foreign terms should be translated into Chinese whenever possible. If a term is uncommon, the original term should be placed in parentheses the first time it appears in the text. In abstracts and the main text, English abbreviations should be accompanied by their full names upon first use. English abbreviations in figures and photos should have their full names provided in the title, and English abbreviations in tables should be accompanied by their full names in footnotes.
- iv. Crop varieties should be enclosed in single quotation marks, using 「」 in Chinese (e.g., rice 「台稉9號」, papaya 「台農2號」), and ‘ ’ in English (e.g., rice ‘TK9’, papaya ‘TNG2’).

8. Submission Guidelines

Manuscripts must be prepared according to the aforementioned formatting guidelines and submitted via the online submission system. The editorial board reserves the right to make revisions or reject submissions. Upon acceptance by the journal, authors are responsible for the first and second rounds of revisions. Except for typographical errors, authors are not permitted to alter the content and data during the proofreading stage.

9. Manuscripts submitted to this journal must not be submitted to other publications. Upon acceptance by the journal, the publishing rights belong to the Taiwan Agricultural Research Institute. Without written permission from the institute, reproduction or transfer for publication elsewhere is prohibited. This journal holds exclusive copyright and does not accept dual submission articles (Articles already published or under consideration for publication in copyrighted domestic or international publications should not be submitted to this journal.). If such circumstances occur, in addition to the legal responsibilities borne by the authors, the journal will record and permanently reject their submissions.

10. The principle of this journal is to print in black and white, with the exception that color figures may be printed upon approval from the editorial board. The fee schedule for color figure printing in this journal has been adjusted as shown in the following table. Authors are responsible for paying the fees directly to the vendor. Manuscripts with outstanding fees will not be published.

The fee schedule for color figure printing:

Total number of color figures	Total price (NTD)	Pricing formula
1	5,250	$5,250 \times 1$
2	7,350	$5,250 \times 1 + 2,100 \times 1$
3	9,450	$5,250 \times 1 + 2,100 \times 2$
4	11,550	$5,250 \times 1 + 2,100 \times 3$
5	13,650	$5,250 \times 1 + 2,100 \times 4$
6 or more	Over 15,750	$5,250 \times 1 + 2,100 \times (n - 1)$

11. Other matters not covered herein may be amended or supplemented by this journal at any time.