

INSTRUCTIONS FOR AUTHORS

(Revised; April 1, 2020)

AIMS AND SCOPE

The Journal of Pesticide Science (JPS) is a fully peer-reviewed and Open Access journal, which is issued quarterly on line by Pesticide Science Society of Japan (PSSJ). Readers are able to search publications in JPS via J-STAGE and PubMed. JPS publishes the results of original research regarding the chemistry and biochemistry of pesticides (insecticides, herbicides, and fungicides) and other agrochemicals. Studies regarding biopesticides and biological control are also considered for publication. JPS covers i) synthetic studies for discovery, screening, and structure–activity relationships; ii) mode of action studies; iii) natural products for pest management; iv) metabolism, degradation, and environmental studies and safety studies in use; v) resistance of pests; vi) formulation and application methods; vii) toxicology, risk assessment, and regulation. Research papers on unknown or unclear active ingredients and uncertain chemical composition, such as crude extracts, are not accepted for review.

This journal also publishes the papers for awards on “high prospective” and “prominent achievement” from the PSSJ and may publish papers from the scientific meeting of the Japanese Society for Chemical Regulation of Plants. The editorial board invites review papers. All papers, including review papers, are carefully reviewed by appropriate experts in the field. All papers will be published after discussions among executive and associate editors.

MANUSCRIPT TYPES

Papers must be written in English and be submitted according to one of the five classifications: *Original Articles*, *Short Communications*, *Notes*, *Technical Reports* or *Review Articles*. Reviewers will be the final judge of the appropriate classification.

- (1) ***Original Articles*** are self-contained, full-length papers with significant conclusions or findings.
- (2) ***Short Communications*** are preliminary accounts of new experimental findings of immediate importance to other workers in the field. They should contain sufficient meaningful data to justify rapid publication.
- (3) ***Notes*** are brief papers on experimental results or new experimental methods that will be of value to the readers.
- (4) ***Technical Reports*** are compilations of experimental and technical data or statistics.
- (5) ***Review Articles*** are surveys of recent advances in pesticide science and related fields. Authors should consult the Editor prior to the submission of Review articles.

JOURNAL & ETHICS POLICIES

This journal strives to uphold the highest research and publishing standards, and this comprehensive suite of policies covers the main responsibilities of the journal.

- (1) **Submission:** As a general rule, the corresponding author must be a member of PSSJ. However, it is not required that coauthors be PSSJ members. Papers from nonmembers will be accepted, provided that they pay the publication fee and the necessary extra page charges.
- (2) **Duplicate submission:** Papers are accepted for review on the understanding that they are not being currently considered or submitted for publication elsewhere.

It is improper for authors to submit manuscripts describing essentially the same research to more than one journal. That is, the submitted manuscript should not have been previously published, should not be currently submitted for review to any other journal, and will not be submitted elsewhere before a decision on the publication is made by the Editorial Board of JPS. Resubmission of a manuscript rejected or withdrawn from publication is permissible.

- (3) **Originality:** Submission to the journal implies that the manuscript is original work. The journal may use software to screen manuscripts for unoriginal content. By submitting a manuscript to the journal, authors agree to this screening. Any manuscript with an unacceptable level of unoriginal material may be rejected or retracted at the editors' discretion.
- (4) **Authorship:** Submission to the journal implies that all authors have seen and approved the author list. Changes to the author list after manuscript submission – such as the insertion or removal of author names,

or a rearrangement of author order – must be approved by all authors and the editor.

Authors are those who have made substantial contributions to the work; have agreed to be held accountable for their own contributions to the work; can identify which co-authors are responsible for other parts of the work; have confidence in the integrity of the work; and have reviewed and approved the final manuscript. Contributors who do not qualify for authorship may be included in the Acknowledgements section instead.

- (5) **Reproducing copyrighted material:** If a manuscript includes material that is not under the authors' own copyright, the authors must obtain permission from the copyright holder(s) to reproduce it. If a manuscript includes previously published material, the authors must obtain permission from the copyright owners and the publisher of the original work to reproduce it. The authors must cite the original work in their manuscript.

Copies of all reproduction permissions must be included with the manuscript when it is first submitted.

- (6) **Animal/human experimentation:** Studies related to human subjects, human material, or human data must have been performed in accordance with the Declaration of Helsinki and must have been approved by an appropriate ethics committee. A statement detailing this, including the name of the ethics committee and the reference number, must appear in all manuscripts. Manuscripts may be rejected if the editor considers that the research has not been carried out within an appropriate ethical framework. Persons being tested have a right to privacy that should not be infringed without informed consent. Identifying information should not be published in written descriptions or photographs unless the information is essential for scientific purposes and the study participant (or parent or guardian) gives written informed consent for publication. Identifying details should be omitted if they are not essential.

All work on animal or human subjects must provide appropriate detail, demonstrating compliance with the relevant ethical approval committees and with current legislation in the country where the work has been undertaken. All animal experiments should comply with the ARRIVE guidelines. Authors should also state whether experiments were performed in accordance with relevant institutional and national guidelines and regulations for the care and use of laboratory animals.

- (7) **Conflicts of interest:** The corresponding author is required to disclose any actual or perceived conflicts of interest on the part of any author when submitting a manuscript. Potential conflicts of interest include affiliations, financial relationships, personal relationships, or funding sources that could be perceived as influencing an author's objectivity regarding the manuscript content. The existence of a conflict of interest does not preclude publication. If there are no interests to declare then please state 'Declarations of interest: none'.

- (8) **Editorial and peer review process:** The journal uses single-blind peer review. All submitted manuscripts will be initially reviewed by an editor-in-chief of JPS to evaluate eligibility for publication. The editor-in-chief will assess the importance and originality of the research, suitability and interest to the readership of the Journal. The quality of the manuscript is also validated after the automatic similarity checking by an on-line submission system. Then, the manuscript is assigned to one of most suitable executive editors who are specialist for the scientific fields (insecticide, herbicide, fungicide, environmental and toxicological field) concerning the manuscript. Assigned executive editor generally invites two anonymous reviewers in the field of study for peer review. The reviewers are selected based on their specialty, such as chemistry, biology, analytical chemistry, toxicology, and formulation. The executive editor will review the peer reviewer's comments and make a decision for acceptance or rejection, or request that the authors revise the manuscript based upon the reviewers' comments. The decision letters, along with the comments of the editors and reviewers, will be sent to the corresponding author via e-mail. When it appears that a manuscript could be improved by revision, it may be returned to the author with specific suggestions. In such cases, the revised manuscript must be returned to the editorial board within 40 days or it will be considered a new submission. The revised manuscript should be attached with a letter providing a point-by-point explanation of all changes to the manuscript and how the authors have addressed the concerns expressed by the reviewers.

- (9) **Editorial board:** The JPS editorial board has five executive editors elected from among experts in insecticide, herbicide, fungicide, environmental and toxicological studies. The editorial board has 37 editors, who are elected evenly from seven special committees: i) pesticide residue analysis; ii) agricultural formulation and application; iii) environmental pesticide science; iv) bioactivity of pesticides; v) pesticide design; vi) pesticide regulatory science; vii) agrochemical bioscience. Ten overseas editors also contribute to JPS editing.

- (10) **Long-term digital archiving:** J-STAGE preserves its full digital library, including JPS, with Portico in a dark archive (see <https://www.portico.org/publishers/jstage/>). In the event that the material becomes

unavailable at J-STAGE, it will be released and made available by Portico.

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- (2) **Publication charges:** A publication fee of 50,000 JPY will be charged for each article upon publication. Members are exempt from the publication charges.

SUBMISSION OF MANUSCRIPT

Papers should be submitted electronically to JPS, URL: <https://www.editorialmanager.com/jpestics/>. Authors should strictly comply with all instructions regarding manuscript preparation. Failure to do so may result in rejection of the manuscript.

After the refereeing process, the author should submit the final manuscript in electronic form, according to the instructions of the Editorial Board.

PREPARATION OF MANUSCRIPT

Potential authors are strongly urged to consult a recent edition of the Journal for all formatting questions. The published articles are available at the web site: <https://www.jstage.jst.go.jp/browse/jpestics/>.

- (1) Manuscripts should be written concisely. *Original Articles* and *Technical Reports* should be within six printed pages (approximately 18 typewritten pages). *Notes* and *Short Communications* should be within three printed pages (approximately 10 typewritten pages) including figures and tables (which should not number more than three, taken together), and should not be divided into sections. A charge of 15,000 JPY per page will be levied for extra pages.
- (2) If the Editorial Board decides that a manuscript requires significant correction of its English presentation and syntax, it will be returned to the authors for revision. Even if the manuscript is of significant scientific merit, it will be rejected unless appropriate editing is obtained.
- (3) Files of Cover Letter, Manuscript, Figures, Tables, and Others (such as Supplements) should be prepared separately. These files should then be uploaded *via* the journal web-based submission system (<https://www.editorialmanager.com/jpestics/>).
- (4) Cover letter should be submitted with the manuscript. The cover letter is expected to describe the importance of the submitted study and its relevance to JPS. In the cover letter, the corresponding author also should declare on behalf of the all the authors that the manuscript conforms to the ethical issue.
- (5) Manuscript should be prepared as follows, using file format of .doc or .docx. The first page should provide the title, author name(s), and affiliation(s), as well as a running title of less than 75 characters. The corresponding author should be indicated with an asterisk (*) in a footnote on the first page, with E-mail address. The second page should consist of an abstract (within 150 words for *Original Articles* and *Technical Reports*, and 80 words for *Notes* and *Short Communications*) and any Keywords (a maximum of 6 words and should be kept to a minimum). From third page, subsequent sections should be (in order): Introduction, Materials and Methods, Results, Discussion, Acknowledgments (optional), References, and Figure Legends. If possible, authors are requested to submit the title, author name(s), and an abstract (400 letters or less) written in Japanese. In cases where none of the authors are capable of providing the Japanese synopsis, the English abstract will be translated by the Editorial Board.
- (6) Titles should be self-explanatory and concise. A paper submitted as a part of a series should have a unique title, with the series title and the number indicated in the footnote on the first page. The authors are advised to cite the previous paper of the series in the same footnote.

- (7) The address of the institution with which the author(s) is affiliated should be concise but sufficient for all mailing purposes.
- (8) Manuscripts should be typed using Times New Roman style and 12-point letters on the paper of 21 cm × 30 cm (A4) or letter size with left- and right-side margins of 2.5 cm and 25 lines per page with about 85 strokes per line. Pages should be numbered consecutively at the bottom margin. Paragraphs, except for the first, should be indented 5 spaces. It is strongly suggested that line numbers are provided in the left margin, restarting on each page. In the right margin of the text, indicate the preferred placement for figures and tables, such as Fig. 1 and Table 1. A printed journal page consists of approximately 2.5 typewritten pages.
- (9) Subdivisions within a section should be numbered as 1., 2., 3., *etc.* Numbering of further divisions should be further given as 1.1., 1.2., 1.3., *etc.*
- (10) Each Figure and Table should be carefully prepared on a separate page to comply with the following requirements:
 - a) Figures should be in a form of high resolution, suitable for the reproduction (1200 dpi minimum for drawings, 350 dpi minimum for photographs either black-and-white (grayscale) or color, 800 dpi minimum for the combination of drawings and photographs). Files in .ppt, .pptx and .ai are preferable. Files in .xls and .xlsx are not acceptable. Font size of letters in Figures should be larger than 11 points at least, with the consideration of the size reduction of Figures in printing.
 - b) Tables should be prepared in the width or 1/2 width of the printing page by using abbreviations when it is possible. For preparation of tables, files in .xls, .xlsx, .doc and .docx are preferable. In case of .doc and .docx files, table should be prepared by using the tabulator functions of the software.
- (11) Figures and photographs must be of suitable quality for reproduction. Color plates for the printed version require an extra charge (50,000 JPY/page) that will be borne by the author. The final size of reproduction in the publication will be decided by the Editorial Office.
- (12) Supplemental information (figures, tables, derivation of equations, calculation methods, spectra, and *etc.*), which is beyond the modest content in the printed article, may be included in the submission. All the supplemental information should be provided as separate files and uploaded as items of Others. The supplemental information will not be part of the published article, but can be accessed separately on the website by readers. The supplemental information should be referred in the manuscript as Supplemental Fig. S1, Supplemental Table S1, Supplemental calculation method S1, *etc.* The supplemental material(s) should be remarked by describing the following announcement after Keywords in the second page of Manuscript: The online version of this article contains supplementary material, which is available at <https://www.jstage.jst.go.jp/browse/jpestics/>.
- (13) Either the scientific or common name can be used for species. However, when first mentioned in the text, both the common name and scientific name should be given.
- (14) Chemical structures should be clearly and accurately drawn. The marks of stereo-structures must be clearly distinguishable.
- (15) References in the text should be placed using consecutive superscripted numbers:<sup>1), 2), 3-5), *etc.* References must be listed on a separate page in numerical order in accordance with their appearance in the text. Journal names and patent names should be abbreviated according to the latest edition of the Chemical Abstracts Service Source Index. Reference titles should be abbreviated, except those of books. The examples below should be followed in designing formatting styles:
 - a) For journals
 - 1) V. L. Salgado: *J. Pestic. Sci.* **42**, 1-6 (2017).
 - 2) A. Sugiura, S. Horoiwa, T. Aoki, S. Takimoto, A. Yamagami, T. Nakano, Y. Nakagawa and H. Miyagawa: *J. Pestic. Sci.* **42**, 105–111 (2017).
 - 3) K. Yanagisawa, T. Muroi, T. Ohtsubo and S. Watano: *Japanese J. Pestic. Sci.* **42**, 281–290 (2017) (in Japanese).
 - b) For books and book chapters
 - 1) I. Yamamoto and J. E. Casida (eds.): “Nicotinoid Insecticides and Nicotinic Acetylcholine Receptor,” Springer, Tokyo, 1999.
 - 2) T. Yamada, H. Takahashi and R. Hatano: “Nicotinoid Insecticides and the Nicotinic Acetylcholine Receptor,” ed. by I. Yamamoto and J. E. Casida, Springer, Tokyo, pp. 149–176, 1999.
 - c) For others
 - 1) Y. Ishiguri, H. Takano and Y. Funaki (Sumitomo Chemical Co., Ltd.): *Eur. Pat. Appl.* EP 92961 (1983).</sup>

2) A. Elbert, K. Iwaya and S. Tsuboi: *Brighton Crop Protection Conference—Pests and Diseases*, 2–1, 21–28 (1990). Vol. 30, No. 2, i–iv (2005).

3) <http://www.jstage.jst.go.jp/article/pestics/> (Accessed 21 Feb., 2008)

In the reference list, all author names should be described. However, when there are more than 10 co-authors in a reference, the Editorial Board may abbreviate the authors using “*et al.*” in the publication

- (16) Footnotes in the text should be indicated by *, **, *etc.* and the corresponding symbol, separated by a line from the text itself, should appear with the details at the bottom of the same page.
- (17) Scientific names must be typed in italics. Greek letters must be clearly indicated to avoid misprinting.
- (18) S.I. units should be used to express quantities. Decimal system abbreviations such as M (mega), k (kilo), d (deci), c (centi), m (milli), μ (micro), n (nano) and p (pico) should be used without adding “s” to plural nouns in principle. Conventionally-used units that are not replaceable with standard ones may be used. Follow the latest publications in JPS: Na, Cl, Mg^{2+} , SO_4^{2-} , mp, bp 72°C (4 mm Hg), t_R (retention time), d (density), c (concentration), n (refractive index), LD₅₀, LC₅₀, KT₅₀, I₅₀, TLm, ED₅₀, pH, fp (freezing point), vp (vapor pressure), pK_a , pK_1 , R_f , K_m , OD₂₈₀, ppm, ppb, eq (equivalent), TLC, HPLC, GC, GC-MS
- (19) The results of analytical tests should appear in the Experiment section. Write in a simple form, using abbreviations for the names of methods, units, values, and assignments.

UV λ_{max} (EtOH) nm (ϵ): 246 (11,000), 296 (8250)

MS m/z (%): 156 (12) M^+ , 141 (17) $[M - CH_3]^+$

The ionization conditions can be written as EIMS, CIMS, FABMS, *etc.*

HRMS m/z (M^+): Calcd. for $C_{20}H_{29}N_3O_3$: 359.2209, Found: 359.2195.

Elemental analysis: Found: C, 48.23; H, 6.17; N, 26.55%. Calcd. for $C_{17}H_{26}N_8O_5$: C, 48.33; H, 6.20; N, 26.53%

- (20) The description of labeled compounds should be in the Roman alphabet as follows. [carbonyl- ^{14}C]acetone, [ring- ^{14}C]phenylalanine, [U- ^{14}C]aniline, $^{14}CO_2$, ^{14}C -ribosome, ^{32}P -labeled.
- (21) When writing large numbers, commas should separate every three digits (*i.e.*, 86,547,000), except when only four figures are used (*i.e.*, 5490). Page numbers or patent numbers appearing in the References should be written without commas (as shown in the examples for (12)). Other quantities should follow these examples: 0.3–0.5 g, 4.5×21 cm, and 6.02×10^{23} . A sentence should not begin with Arabic figures, and zero (0) must always be spelled out in the text.
- (22) Nomenclature for inorganic and organic compounds should be in accordance with the rules set by IUPAC in principle. Suffixes such as allo, bis, cyclo, des, etio, homo, iso, neo, pseudo, *etc.* used in the names of chemical compounds are regarded as part of the name and should not be hyphenated with the name of the original compound but written as one word in Roman letters. Italics should be used in printing *o* (ortho), *m* (meta), *p* (para), *n* (normal), *sec* (secondary), *cis*, *trans*, *gauche*, *erythro*, *threo*, *syn*, *anti*, and also when indicating optical activity and optical inactivity, namely, *d* (dextro), *l* (levo), *dl* (racemic), *i* (inactive), *etc.* *N*, *O*, and *C* indicating substituent(s) should also be in italics. In order to express stereoconfigurations in saccharides, amino acids and the like, *D*, *L* (small cap.) and *DL* (small cap.) should be used. Absolute configuration should be indicated by (*R*) or (*S*) and geometrical isomers by (*E*) or (*Z*).
- (23) Simple conventional solvents, chemical reagents and inorganic compounds may be expressed as, *e.g.*, MeOH, EtOH, AcOH, NaOH, HCl and PhCl. However, either the molecular formula or the substance name should be used throughout the text.
- (24) As a general rule, those symbols used for the quantities listed in (18), those listed in (19) and abbreviations such as Expt (Experiment), Fig. (Figure) and Eq. (Equation) may be used in the text.
- (25) Abbreviations to be used are: *et al.*, *i.e.*, *e.g.*, *in vacuo*, *etc.*, *viz.*, *in vitro*, *in vivo*, *via*, *de novo*, *ca.*, max, min, mol, wt., No., fraction No., conc. (the word “concentration” should be spelled out), dil., abs., aq., anhyd., and Figs. 1 and 2.
- (26) New nucleotide sequences of DNA must be deposited in the DDBJ/EMBL/GenBank databases and an accession number obtained. Submission to any one of the three collaborating databanks is sufficient to ensure data entry in all. The accession number should be included in the manuscript. X-ray crystallographic data of proteins must be deposited in the PDB/CCDC databases, and the accession number should be described in text. All accession numbers must be obtained before the paper will be accepted for publication.

ACCEPTED MANUSCRIPTS

- (1) Corrections to the galley proofs are limited to typographical errors or omissions. No other additions or alterations in the text will be allowed.
- (2) Reprints can be obtained at cost in units of 50.

Contact the journal

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