

## Guidelines for authors of *Journal of Insects as Food and Feed*

### Scope

The *Journal of Insects as Food and Feed* covers edible insects from harvesting in the wild through to industrial scale production. It will publish contributions to understanding the ecology and biology of edible insects and the factors that determine their abundance, the importance of food insects in people's livelihoods, the value of ethno-entomological knowledge, and the role of technology transfer to assist people to utilise traditional knowledge to improve the value of insect foods in their lives. The journal aims to cover the whole chain of insect collecting or rearing to marketing edible insect products, including the development of sustainable technology, such as automation processes at affordable costs, detection, identification and mitigating of microbial contaminants, development of protocols for quality control, processing methodologies and how they affect digestibility and nutritional composition of insects, and the potential of insects to transform low value organic wastes into high protein products. At the end of the edible insect food or feed chain, marketing issues, consumer acceptance, regulation and legislation pose new research challenges. Food safety and legislation are intimately related. Consumer attitude is strongly dependent on the perceived safety. Microbial safety, toxicity due to chemical contaminants, and allergies are important issues in safety of insects as food and feed. Innovative contributions that address the multitude of aspects relevant for the utilisation of insects in increasing food and feed quality, safety and security are welcomed.

### Manuscripts

- To enable correct submission of your manuscript, the following items must be provided on the **FIRST** page of your manuscript (Microsoft Word .doc or .docx file):
  - Title
  - Short (vernacular or page header) title
  - Authors (use superscript NUMBERS after each author name and begin each affiliation with a superscript number)
  - Affiliations
  - Corresponding author information
  - Other author footnotes (if applicable, such as equal contribution)
  - Abstract (use the heading "Abstract" on the previous line).
  - Keywords
  - Conflict of interest or funding statement (when not part of the acknowledgements)
- Start the remainder of the manuscript on the **SECOND** page.
- Indicate the type of manuscript. Your manuscript must contain title, author(s) and affiliation(s) and the requirements for the manuscript type (see the Table below).
- Your paper should be within the range of pages given for the type of manuscript (see the Table below). Contact the editorial office if your manuscript exceeds the page range.
- The maximum size for your manuscript, including figures and additional files is 50 Mb. If you need more space please contact the editorial office.
- Submit your manuscript via our online submission system <http://www.editorialmanager.com/jiff>

Manuscript type	As a MS-word file	In the Journal	Manuscript should contain
			title, authors, affiliations +
Research article <sup>1</sup>	6-14 pages	4-10 pages	abstract, keywords, introduction, materials and methods, results, discussion and conclusion (combined or separate), acknowledgements (optional), references
Review article <sup>1</sup>	6-20 pages	4-15 pages	abstract, keywords, introduction, several subject sections, acknowledgements (optional), references
Short communication <sup>1</sup>	4-6 pages	2-4 pages	see research article

Letter to the editor <sup>2</sup>	2 pages	1 page	original article title and authors, commentary text, references
Book review <sup>2</sup>	2 pages	1 page	book name, authors and publisher, review text
Opinion paper <sup>3</sup>	4-8 pages	2-6 pages	abstract, keywords, introduction, subject sections, acknowledgements (optional), references
Hypothesis paper <sup>3</sup>	6-8 pages	4-6 pages	abstract, keywords, introduction, subject sections, acknowledgements (optional), references

<sup>1</sup> Submit your manuscript via our online submission system <http://www.editorialmanager.com/jiff>.

<sup>2</sup> Should be submitted to the editor-in-chief: [editor-in-chief@insectsasfoodandfeed.com](mailto:editor-in-chief@insectsasfoodandfeed.com).

<sup>3</sup> Please contact the editor-in-chief before submission: [editor-in-chief@insectsasfoodandfeed.com](mailto:editor-in-chief@insectsasfoodandfeed.com).

## General

**During processing for publication, standard house formatting will be applied by Wageningen Academic Publishers.**

- Submit your manuscript as MS Word file.
- Use a general available font such as Times New Roman, font size 12, single spacing, A4 paper and 2.5 cm margins on all sides. Please try to avoid symbol font for special characters.
- Use British English spelling.
- Authors who believe that their manuscripts would benefit from professional editing, prior to submission, are encouraged to use a language-editing service before submission (<http://www.wageningenacademic.com/author-info/language-editing>). Manuscripts not written in acceptable UK English will either not be considered for publication or the authors will be charged for language-editing.

## Manuscript heading

- Title: bold, sentence case, and no longer than 20 words.
- Authors: all sentence case. Use initials for the first names of the authors.
- Affiliations: all sentence case; affiliations include the full address of all authors and including the e-mail address of the corresponding author.
- Running header: not longer than 75 keystrokes.

## Abstract and keywords

- The abstract should be clear on itself and not containing more than 300 words.
- Abbreviations should be given in full on first use and are followed by the abbreviation in parentheses.
- Do not mention references in the abstract.
- Use 3-5 keywords (do not repeat any of the words of the title of the manuscript). Keywords should be lower case, separated by a comma.

## Text

- Use a maximum of two heading levels:
  - Level 1: Boldface, sentence case.
  - Level 2: Italic, sentence case.
- Italics should be used for non-English expressions, e.g. species names like *Tenebrio molitor*, gene names and words like *in vivo*.
- Commas are used for numbers greater than 1000. Ordinal numbers less than 10 are preferably spelled out. Periods are used for decimals. Use a 0 before the decimal point for numbers below 1 (e.g. 0.005).
- Authors should use SI units. Abbreviations should be used for all units; units should be given as kg/ha rather than kg ha<sup>-1</sup>.
- Other abbreviations should be given in full on first use and are followed by the abbreviation in parentheses.
- Numerical values should be given in figures.
- Manufacturer or supplier names and location (city and country) are given for special chemicals, software, equipment and other products.
- Use single quotation marks in the text.
- Numbered lists should be provided with Arabic numbers or lower case alphabet. Use a period after the number or letter (e.g. 1. or a.). Unnumbered lists should be provided with bullets.
- Do not indent paragraphs. Use the tab function to place words at a certain position in the text, not spaces.

## Methods

- For studies presenting nutritional or other biochemical compositions of insects the method section must include: (1) the number and size of samples collected, prepared and extracted; and (2) the number of analytical replicates per sample. A minimum of three individual and independent samples must be analysed for each reported mean value, along with some indication of variability (standard deviation or standard error). When only one or two individual samples have been analysed, notwithstanding the number of analytical replicates, authors should report only the mean (without a standard deviation). The normal precision of their assays can be reported. Data must be reported to the appropriate number of significant digits for the precision and instrumental sensitivity. Statistical tests of differences between groups of samples, e.g. species, should only be applied if sufficient high number of representative and comparable samples have been analysed, or the results should be presented without statistical tests. If statistical testing of difference in nutritional or biochemical composition between species is presented, it must explicitly be justified to be applicable based on the numbers of samples in the study.

## Footnotes

- Footnotes should be avoided.

## Appendices

- Appendices appear after the references; must contain a title and should be numbered when more than one.
- They are referred in the text as Appendix A, B, etc.

## Tables

- Avoid large tables. Tables should fit within the journal size (maximum size per page 20×27 cm). Landscape format is acceptable only by exception; this will be decided by the publisher.
- Tables should be numbered in Arabic numbers according to their sequence in the text.
- Each table should have a brief title. Please try to avoid abbreviations in the title as much as possible.
- Each table should be mentioned in the text. Use 'Table' followed by the number in the text, not an abbreviation, e.g. Table 1.
- Tables should be included in the text at the right place.
- Tables should be clear without reading the text. Column headings should be brief and clear.
- Any necessary explanations essential for understanding the table should be given as a footnote at the bottom of the table. Use either numbers or letters for footnotes.

## Formulae and equations

- Formulae should be typewritten, if possible. Word Equation Editor/MathType should be used only for formulae that cannot be produced using normal text or Symbol font.
- We do not recommend using the Word 2007, 2008, 2010 or 2011 equation editor. This can in some cases result in display errors. Instead, use the legacy equation editor in word (Insert menu; select insert object; select Microsoft equation) or use Mathtype (recommended).
- Subscripts and superscripts should be clear.
- Give the meaning of all symbols immediately after the equation in which they are first used.
- Equations should be numbered in Arabic numbers serially at the right-hand side in parentheses.
- When referring to equations in the text use 'Equation' followed by the number, not Eq.

## Figures

**Wageningen Academic Publishers will not artificially enhance the quality of photos or redraw results presented in figures. Authors therefore should supply figures that are suitable for publication. Figures that lack the quality standard (see below and in the Appendix) will not be considered for publication.**

- If photographs (greyscale or colour) are necessary, submit digital photographs. Only original photographs with good contrast and intensity are acceptable. Photographs should be submitted as jpg or pds files with a resolution of at least 300 dpi.
- All other figures (line-art or a combination of photographs and labels) should be submitted as EPS files.
- All figures should be black and white, unless the use of colour is necessary on scientific, and not merely cosmetic, grounds. Colour figures will be published if judged essential by the editors. Otherwise, full colour figures will be converted to black and white.
- Do not insert your figures in the Word.doc file, but submit them separately.
- Text in figures should be in an editable format.
- Use font size 7-9 for the text in your figures.
- Figures should be numbered in Arabic numbers according to their sequence in the text.
- Each figure should be mentioned in the text. Use 'Figure' followed by the number in the text, not Fig.
- Each figure should have a brief title. Type this title in the text where the illustration should be placed.
- Please try to avoid abbreviations in the title as much as possible.

- Any necessary explanations essential for understanding the figure should be given as a note at the bottom of the figure. Use either numbers or letters for footnotes.

### Supplementary Material

- Supplementary material will not be edited by the publisher.
- Supplementary material should be numbered in Arabic numbers according to their sequence in the text.
- Each supplementary material should be mentioned in the text. Use, for example, ‘Figure’ or ‘Table’ followed by a S and the number in the text (e.g. Figure S1, Table S3).
- Supplementary material should have a brief title.
- Any necessary explanations essential for understanding supplementary material should be given as a footnote at the bottom of the supplementary material. Use either numbers or letters for footnotes.
- A graphical abstract, which is an one-image file summarising the main findings of the article, can be submitted as a separate file during submission of the manuscript. Any text or label must be part of the image file. Please choose ‘Supplementary Material’ and type ‘Graphical abstract’ as file description when uploading your graphical abstract file. Please use ‘graphical abstract’ in the name of the file. The graphical abstract will be displayed online, but will not appear in the article PDF file. See for an example <https://doi.org/10.3920/JIFF2016.0060>.

### References

- References concerning submitted, but not yet accepted manuscripts, unpublished data or ‘personal communications’ should not be cited in the reference list, but may be mentioned in the text as (unpublished data) or (Initials + Family name, personal communications).
- Work accepted for publication, but not yet published or first published online should be referred to as ‘in press’. If possible provide a DOI for these manuscripts.
- In the text, refer to the author’s name (without initials) and year of publication. Publications from the same authors in a single year should use a, b, etc.
- If reference is made to a publication written by more than two authors, the name of the first author should be followed by ‘*et al.*’. Use ‘and’ and not ‘&’ for two authors.
- References without an author should be referred as Anonymous.
- References cited together in the text should be arranged alphabetically.
- All publications cited in the text should be presented in an alphabetical list of references at the end of the manuscript (no numbering).
- The list of references should be arranged alphabetically by authors’ names.
- All authors of each article should be mentioned in the reference list. Institutional authors, like World Health Organisation (WHO) or United States Department of Agriculture (USDA), should be written out in the reference list.
- Use full journal names for the references.
- Provide a DOI for each reference if possible. (This will crosslink to the original article in the published article pdf).
- For internet resources use the direct link to the website of the paper if possible. If a paper is undated use the date (year) of access.
- An Endnote style and a Reference Manager style are available at <http://www.wageningenacademic.com/journals/jiff/guidelines>.
- Use the following system for arranging your references:
  - For periodicals:*
    - Charlton, A.J., Dickinson, M., Wakefield, M.E., Fitches, E., Kenis, M., Han, R., Zhu, F., Kone, N., Grant, M., Devic, E., Bruggeman, G., Prior, R. and Smith, R., 2015. Exploring the chemical safety of fly larvae as a source of protein for animal feed. *Journal of Insects as Food and Feed* 1: 7-16. <https://doi.org/10.3920/JIFF2014.0020>
    - Ganda, H., Zannou-Boukari, E.T., Kenis, M., Chrysostome, C.A.A.M. and Mensah, G.A., in press. Potentials of animal, crop and agri-food wastes for the production of fly larvae. *Journal of Insects as Food and Feed*, <https://doi.org/10.3920/JIFF2017.0064>
  - For books:*
    - Van Huis, A. and Tomberlin, J.K., 2017. *Insects as food and feed: from production to consumption*. Insects as food and feed: from production to consumption. Wageningen Academic Publishers, Wageningen, the Netherlands, 448 pp. <https://doi.org/10.3920/978-90-8686-849-0>
    - Van der Meulen, B. and Van der Velde, M., 2008. *European food law handbook*. Wageningen Academic Publishers, Wageningen, the Netherlands, 640 pp. <https://doi.org/10.3920/978-90-8686-246-7>
  - For multi-author books and conference proceedings:*
    - Bouyer, J. and Marois, E., 2018. Genetic control of vectors. In: Garros, C., Bouyer, J., Takken, W. and Smallegange, R.C. (eds.) *Pests and vector-borne diseases in the livestock industry*. Wageningen Academic Publishers, Wageningen, the Netherlands, pp. 435-451. [https://doi.org/10.3920/978-90-8686-863-6\\_14](https://doi.org/10.3920/978-90-8686-863-6_14)
    - Durst, P.B., Johnson, D.V., Leslie, R.N. and Shono, K. (eds.), 2010. *Forest insects as food: humans bite back*. In: *Proceedings of a workshop on Asia-Pacific resources and their potential for development*, 19-21

February 2008, Chiang Mai, Thailand. Food and Agriculture Organization of the United Nations RAP Publication 2010/02. Available at: <http://www.fao.org/docrep/012/i1380e/i1380e00.pdf>.

d. *For internet resources:*

- Jongema, Y., 2017. List of edible insects of the world. Wageningen University & Research, Wageningen, the Netherlands. Available at: <http://tinyurl.com/mestm6p>.
- Van Huis, A., Van Itterbeeck, J., Klunder, H., Mertens, E., Halloran, A., Muir, G. and Vantomme, P., 2013. Edible insects: future prospects for food and feed security. FAO Forestry Paper no. 171. Food and Agriculture Organization of the United Nations (FAO), Rome, Italy, 187 pp. Available at: <http://www.fao.org/docrep/018/i3253e/i3253e.pdf>.

### **Ethics**

- Authors should ensure that the work described is entirely original. If authors use the work and/or words of others this should be cited or quoted appropriately. Plagiarism in all its forms is unacceptable.
- It is accepted that authors sometimes need to manipulate images for clarity, however, manipulation for purposes of deception or fraud will be seen as scientific ethical abuse.
- Wageningen Academic Publishers is a participant of Similarity Check, a service offered by CrossRef and powered by iThenticate. iThenticate is a plagiarism screening service that verifies the originality of written work.
- If plagiarism or manipulation is identified, manuscripts will either not be considered for publication or if already published the paper will be withdrawn from the electronic version of the journal.
- Authors need to confirm that all the research meets the ethical guidelines, including adherence to the legal requirements (for human and animal studies) of the study country.
- *Journal of Insects as Food and Feed* requires that all authors disclose any potential sources of conflict of interest.



Wageningen Academic  
P u b l i s h e r s

# Appendix: Preparing artwork for print



Wageningen Academic  
P u b l i s h e r s

## Size and arrangement of figures

- Provide figures approximately at the size at which they will be printed.
- Try to keep figures compact and clear.
- maximum figure size is a width of 78 mm (single column) or 165 mm (double column).
- In figures consisting of multiple parts, these parts should be arranged in such a way that the maximum size is not exceeded.

## Using texts in figures

- Arial is the recommended font for all texts in artwork.
- Font size for basic texts should be 9 pt; font size 7 or 8 pt (never smaller than 7 pt) can be used for less important text as an exception.
- Do not rasterise or convert text into outlines.
- In figures consisting of multiple parts, each part should be labelled with a capital character A, B, C, etc.

## Graphical items

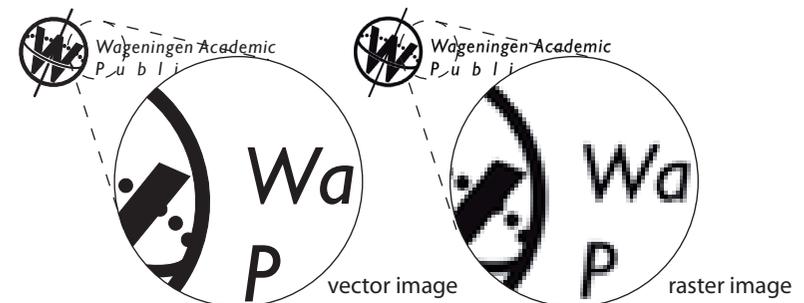
- Line weights should be 0.5 pt; only if necessary for clear distinction line weights between 0.25 and 1 pt can be accepted.
- Do not use drop shadows.
- Do not use 3-D graphs when there is no scientific reason to do so.

## Colours

- Photographs can be submitted in colour, but they will be converted to greyscale for print. Note that converting to greyscale may result in serious loss of information.
- All other figures should be submitted in greyscale (black and white).
- Figures will only be published in colour if judged essential by the editors (additional costs can be charged).

## Image types and acceptable file formats

There are two basic types of images: vector images and rasterised (or bitmap) images. Vector images can be upscaled without loss of quality, while rasterised images cannot. Photographs are rasterised images; for all other figures we only accept vector images.



- We prefer all vector images to be submitted as **EPS** or **PDF**. Graphs made in MS Excel can be submitted directly as **XLS** files.
- Almost all common imaging programmes allow you to export graphs or images as **EPS** or **PDF** files by using the 'Save as' or the 'Export as' function. If asked, always choose for all fonts to be embedded (don't convert text to outlines). Always check the export options to ensure that images are not downsampled or rasterised.
- Photographs should be submitted as **JPG**, **TIFF** or **PDS** files with a resolution of at least 300 dpi. Please note that artificial upgrading of the resolution of a photographic image will not improve its quality.
- Only original photographs with good contrast and intensity are acceptable.
- Files combining rasterised and vector images should be submitted as unflattened vector **EPS** files.
- When in doubt, or in need of help or advice, please e-mail one of our editors at [editorial@WageningenAcademic.com](mailto:editorial@WageningenAcademic.com).