



Table of Contents

Scope	1
Ethical and Legal Conditions	2
Online Submission	2
Manuscripts.....	2
General	3
Manuscript heading.....	4
Abstract and keywords.....	4
Text.....	4
Footnotes	5
Tables.....	5
Formulae and Equations.....	5
Figures	6
Supplementary Material.....	6
References	7
Publication	8
Proofs	8
Author fulfilment.....	8
License to Publish.....	9
Appendix BRILL Wageningen Academic Journals.....	10
Ethics: publishing ethics	10
Ethics: human and animal studies.....	10
Data sharing	10

Scope

The journal *Plant-Arthropod-Microbe Interactions* covers the multidirectional three-way interactions between plants, microbes and arthropods (PMA) from the molecular to the community level. It publishes contributions that enhance our understanding of the impacts of PMA interactions on the physiology, ecology and evolution of the species involved and the consequences for their associated communities and ecosystems, as well as the mechanisms underlying these interactions, and their potential for utilisation in sustainable agriculture and horticulture. The journal covers impacts of plant-associated microbes including phytopathogens (viruses, bacteria, fungi, oomycetes, nematodes) and phytosymbionts (e.g. mycorrhizae, rhizobia, plant growth promoting rhizobacteria and fungi, endophytes) on plant-associated arthropods such as pollinators and herbivorous or disease-vectoring arthropods and their natural enemies, and vice versa. Likewise, it covers the impacts of arthropod-associated microbes including entomopathogens, baculoviruses and nutritional or defensive endosymbionts on plant-arthropod and plant-microbe interactions, and vice versa. The scope of the journal encompasses both studies focusing on individual species and studies addressing impacts of/on



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whole communities, including plant, rhizosphere or arthropod microbiomes. Innovative contributions that address the multitude of PMA interactions in natural or food-production systems, the impact of abiotic environmental factors modulating these interactions, their underlying molecular and ecological mechanisms, and their ecological and evolutionary consequences are welcomed.

Open Access

This journal is a fully Open Access journal, which means that all articles are freely available online, ensuring maximum, worldwide dissemination of content. The Article Publication Charge for authors is therefore waived.

Ethical and Legal Conditions

The publication of a manuscript in a peer-reviewed work is expected to follow standards of ethical behaviour for all parties involved in the act of publishing: authors, editors, and reviewers. Authors, editors, and reviewers should thoroughly acquaint themselves with Brill's publication ethics, which may be downloaded here: brill.com/page/ethics/publication-ethics-cope-compliance.

For this journal's specific publishing ethics, please see the Appendix.

Online Submission

This journal uses online submission only. Authors should submit their manuscript online via the Editorial Manager (EM) online submission system at: editorialmanager.com/pami. First-time users of EM need to *register first*. Prior to submission, authors are encouraged to read the *Instructions for Authors* and the EM instructions available by following the above link and clicking on the 'help' icon in the top left-hand menu on the page. Online submission considerably shortens overall publication time. When submitting via the website, you will be guided stepwise through the creation and uploading of the various files. Any *figure files* should be uploaded separately, and should have a high density of at least 300 dpi at a size suitable for printing. All figures should have figure captions and be cited in the text. The *revised document* is uploaded the same way as the initial submission. The system automatically generates a PDF proof, which is then used for reviewing purposes. All correspondence, including the editor's request for revision and final decision, is sent by e-mail.

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



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- superscript number)
- Affiliations
- Corresponding author information
- Other author footnotes (if applicable, such as equal contribution and ORCID)
- Abstract (use the heading “Abstract” on the previous line)
- Keywords
- Conflict of interest, and funding statement (the latter if applicable and not part of the acknowledgements)
- Start the remainder of the manuscript on the **SECOND** page.
- Please ensure that pages are numbered and lines numbered continuously throughout the manuscript.
- 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 at pami@nioo.knaw.nl.
- Submit your manuscript via our online submission system editorialmanager.com/pami.

See also Table 1 below.

General

During processing for publication, standard house formatting will be applied by Brill Wageningen.

- Submit your manuscript as MS Word file.
- Use the Brill typeface or 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. Verbs that can be spelled with either ‘ize’ or ‘ise’ at the end in British English should be spelled with ‘ise’ at the end in your manuscript.
- Authors who believe that their manuscripts would benefit from professional editing, prior to submission, are encouraged to use a language-editing service before submission (see for example, [Services | Academic Language Experts \(aclang.com\)](http://Services | Academic Language Experts (aclang.com))). Manuscripts not written in acceptable UK English will either not be considered for publication or the authors will be charged for language-editing.
- Please check published articles online at brill.com/pami for correct formatting of your manuscript, including mathematical symbols.



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Table 1 Manuscript submission pointer

Manuscript type	As a MS-word file	In the journal	Manuscript should contain
			title, authors, affiliations +
Research article ¹	2500-6500 words	4-10 pages	abstract, keywords, introduction, materials and methods, results, discussion and conclusion (combined or separate), acknowledgements (optional), references
Review article ¹	2500-9500 words	4-15 pages	abstract, keywords, introduction, several subject sections, acknowledgements (optional), references
Short communication ¹	1200-2500 words	2-4 pages	see research article
Letter to the editor ²	600 words	1 page	original article title and authors, commentary text, references
Book review ²	600 words	1 page	book name, authors and publisher, review text
Opinion paper ³	1200-3500 words	2-6 pages	abstract, keywords, introduction, subject sections, acknowledgements (optional), references
Hypothesis paper ³	2500-3500 words	4-6 pages	abstract, keywords, introduction, subject sections, acknowledgements (optional), references

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

² Should be submitted to the Editor-in-Chief: pami@nioo.knaw.nl.

³ Please contact the Editor-in-Chief before submission: pami@nioo.knaw.nl.

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.
- If available, add ORCID iDs preceded by <https://orcid.org/>
- 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, nor insert footnotes.
- 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.



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- 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⁻¹.
- 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.

Footnotes

- Footnotes should be avoided.

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.



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- 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

Brill Wageningen 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.
- Figures may in colour or 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.



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- 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.
- In the text, 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 Organization (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.

Use the following system for arranging your references:

Periodicals

Gruden, K., Lidoy, J., Petek, M., Podpečan, V., Flors, V., Papadopoulou, K.K., Pappas, M.L., Martinez-Medina, A., Bejarano, E., Biere, A., Pozo, M.J., 2020. Ménage à trois: unraveling the mechanisms regulating plant-microbe-arthropod interactions. *Trends in Plant Science* 25: 1215-1226, <https://doi.org/10.1016/j.tplants.2020.07.008>
Pirttilä, A.M., Brusilaa, V., Koskimäkia, J.J., Wäliala, P.R., Ruotsalainen, A.L., Mutanena, M., Markkolaa, A.M., in press. Exchange of microbiomes in plant-insect herbivore interactions. *mBio*, <https://doi.org/10.1128/mbio.03210-22>



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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>

Multi-Author Books and Conference Proceedings

Gange, A., 2007. Insect–mycorrhizal interactions: patterns, processes, and consequences. In: Ohgushi, T., Craig, T.P. and Price, P.W. (eds.), Ecological communities: plant mediation in indirect interaction webs. Cambridge University Press, Cambridge, UK, pp. 124-144. <http://doi.org/10.1017/CBO9780511542701.007>

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>

Publication

Proofs

Upon acceptance, a PDF of the article proofs will be sent to authors by e-mail to check carefully for factual and typographic errors. Authors are responsible for checking these proofs and are strongly urged to make use of the Comment & Markup toolbar to note their corrections directly on the proofs. At this stage in the production process only minor corrections are allowed.

Alterations to the original manuscript at this stage will result in considerable delay in publication and, therefore, are not accepted unless charged to the author. Proof corrections should be returned promptly.

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Appendix BRILL | Wageningen Academic Journals

Ethics: publishing 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.
- BRILL Wageningen 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.

Ethics: human and animal studies

- Authors that have used human subjects in their research must confirm that subjects have signed a Statement of Informed Consent, and the identity of the subjects is not infringed by the information in the publication. Medical studies on human subjects must follow the ethical principles of the Declaration of Helsinki (most recent revision, <https://www.wma.net/policies-post/wma-declaration-of-helsinki-ethical-principles-for-medical-research-involving-human-subjects/>), including adherence to the legal requirements of the study country.
- Studies involving animal subjects must meet the ethical guidelines, including adherence to the legal requirements of the study country. Authors must demonstrate that experimental procedures conform to the accepted principles of animal welfare in experimental science. These principles are defined and explained in the European Convention for the Protection of Vertebrate Animals used for Experimental and Other Scientific Purposes and its appendix (<https://www.coe.int/en/web/conventions/full-list/-/conventions/treaty/123>) or in the National Research Council Guide for the Care and Use of Laboratory Animals (<https://www.nap.edu/catalog/12910/guide-for-the-care-and-use-of-laboratory-animals-eighth>). If experimental methodology raises particular ethical or welfare concerns then the Editor will take additional guidance from [Animals (Scientific Procedures) Act 1986, <https://www.legislation.gov.uk/ukpga/1986/14/contents>] when making decisions.
- The Editor's decision regarding human and/or animal ethics will be final.

Data sharing

- Authors have to agree to make their data available in a public repository.

Preparing artwork for print

Size and arrangement of figures

- Provide figures approximately at the size at which they will be printed.



Instructions for Authors

- 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.

Figure charges for surplus graphs

- If a figure has one graph in an (A) and (B) subsection, this will count as 2 graphs. If a figure has many small unnumbered graphs, each small graph will count towards the total.
- If you wish to avoid figure charges, an option would be to place some graphs into a supplementary materials file.

Using texts in figures

- Arial is the recommended font for all texts in artwork.
- Fontsize for basic texts should be 9 pt; fontsize 7 or 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

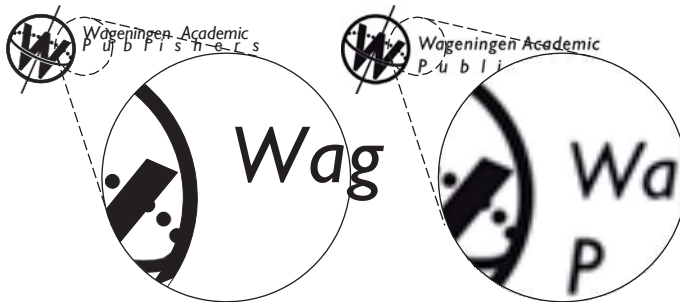
- Line weights should be 0.5 pt; only if necessary for clear distinction line weights between 0.25 and 1 pt can be accepted.
- Do not use dropshadows.
- Do not use 3-D graphs when there is no scientific reason to do so.
- Colours
- Photographs can be submitted in colour, but they will be converted to 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 raster images; for all other figures we only accept vector images.



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Left: a vector image. Right: a raster image

- We prefer all vector images to be submitted as **.eps** or **.pdf**. Graphs made in MS Excel can be submitted directly as **.xls/.xlsx** 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 **.jp(e)g**, **.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 pami@nioo.knaw.nl.