Description

Teaching and Teacher Education is an international journal concerned primarily with teachers, teaching, and/or teacher education situated in an international perspective and context. The journal focuses on early childhood through high school (secondary education), teacher preparation, along with higher education concerning teacher professional development and/or teacher education. Teaching and Teacher Education is a multidisciplinary journal committed to no single approach, discipline, methodology, or paradigm. The journal welcomes varied approaches (qualitative, quantitative, and mixed methods) to empirical research; also publishing high quality systematic reviews and meta-analyses. Manuscripts should enhance, build upon, and/or extend the boundaries of theory, research, and/or practice in teaching and teacher education. Teaching and Teacher Education does not publish unsolicited Book Reviews.

Audience

Teachers and teacher trainees, evaluators, researchers in teacher education, educational and cognitive psychologists, educational sociologists, educational anthropologists, policy makers and planners.

Impact Factor

2018: 2.411 © Clarivate Analytics Journal Citation Reports 2019
ABSTRACTING AND INDEXING

IBZ and IBR
Current Contents
Contents Pages in Education
Social SciSearch
British Education Index
Education Abstracts
PsycINFO
ERIC
UnCover
Australian Educational Index
Education Index
Educational Management Abstracts
ERA (Educational Research Abstracts Online)
Multicultural Education Abstracts
Sociology of Education Abstracts
Special Education Needs Abstracts
Technical Education & Training Abstracts
Education Technology Abstracts
Dietrich's Index Philosophicus
Education Research Index
Internationale Bibliographie der Geistes- und Sozialwissenschaftlichen Zeitschriftenliteratur
Internationale Bibliographie der Rezensionen Geistes- und Sozialwissenschaftlicher Literatur
Periodicals Index Online
Scopus
Social Sciences Citation Index
MathEduc

EDITORIAL BOARD

Co-Editors in Chief
Hafdís Guðjónsdóttir, University of Iceland, Iceland
Robert Kleinsasser, Arizona State University, United States

Founding Editor
Nathaniel Gage, STANFORD UNIVERSITY, Stanford, California, United States

Executive Editors
Lily Orland-Barak, University of Haifa, Israel
Thomas H. Levine, University of Connecticut, United States
Cheryl J. Craig, Texas A&M University College Station, United States
Roisin Corcoran, University of Nottingham, United Kingdom
Effie Macellaran, University of Strathclyde, United Kingdom
Katrien Struyven, Hasselt University, Belgium

International Editorial Board
Beatrice Avalos, University of Chile, Chile
Douwe Beijaard, University of Technology Eindhoven, Netherlands
Megan Blumenreich, City University of New York, United States
Gavin Thomas Lumsden Brown, The University of Auckland, New Zealand
Keffrelyn Brown, University of Texas at Austin, United States
Robert Bullough, Brigham Young University, United States
Deborah Butler, The University of British Columbia, Canada
Jose Chamoso, University of Salamanca, Spain
Renée Clift, University of Arizona, United States
Patrick Danaher, University of Southern Queensland, Australia
Christopher Day, University of Nottingham, United Kingdom
Mary Louise Gomez, University of Wisconsin Madison, United States
Janette Gray
Janice Huber, University of Regina, Canada
Jukka Husu, University of Turku, Finland
Geert Kelchtermans, KU Leuven, Belgium
Adam Lefstein, Ben-Gurion University of the Negev, Israel
Ian Menter, University of Oxford, United Kingdom
Stefinee Pinnegar, Brigham Young University, United States
José Reis-Jorge, Higher Institute of Education and Science, Portugal
Carol Rodgers, University at Albany State University of New York, United States
Kari Smith, Norwegian University of Science and Technology, Norway
Patience Sowa, Zayed University, United Arab Emirates
Jennifer Sumsion, Charles Sturt University, Australia
Ji-Sook Yeom, Konkuk University, Republic of Korea

Past Editors
Neville Bennett
Jean Clandinin
Sara Delamont
Michael J Dunkin
John Fitz
Jennifer Gore
Mary Lynn Hamilton
Terry Lovat
Graham Nuthall
Lesley Pugsley
Chris Taylor
GUIDE FOR AUTHORS

INTRODUCTION

Teaching and Teacher Education aims to enhance theory, research, and practice in teaching and teacher education through the publication of papers concerned with the analysis of teaching, teaching effectiveness, the factors that determine teachers’ thought processes and performances, and the social policies that affect teachers in all aspects and stages of their careers. The journal will recognize that many disciplines - psychology, sociology, anthropology, economics, political science, history, and philosophy - have important contributions to make to the achievement of its goals, and the Editors welcome contributions from them. In the absence of any dominant paradigm, the journal will allow varied approaches to offer empirical research, theoretical and conceptual analyses, and reviews (both qualitative and quantitative syntheses) of high quality.

Papers should be concerned primarily with teachers, teaching, or teacher education at whatever grade, level, or whatever subject-matter, at any stage of the teacher's career, that all submissions should be situated in an international context (or address issues and questions of international concern.)

Prospective authors are advised to check that their manuscript fits well within TATEs aims and scope, and to review recently published issues to help them gauge suitability and the overall quality of the work published. While the TATE editors endeavour to provide constructive feedback to as many authors as possible, authors should be aware that papers which do not fit the scope, or which fail to meet the minimum quality threshold, will not be sent out for further peer review.

Contact details for submission
Authors are requested to submit their papers electronically by using the Teaching and Teacher Education online submission and review web site (https://www.evise.com/profile/api/navigate/TATE). This site will guide authors stepwise through the submission process. Authors are requested to submit the text, tables, and artwork in electronic form to this address. Authors who are unable to provide an electronic version or have other circumstances that prevent online submission must contact the Editorial Office prior to submission to discuss alternate options; email: tate@elsevier.com. The Publisher and Editors regret that they are not able to consider submissions that do not follow these procedures.

Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:
• E-mail address
• Full postal address

All necessary files have been uploaded:
Manuscript:
• Manuscripts should be double spaced and in size 12 font.
• Include keywords
• All figures (include relevant captions)
• All tables (including titles, description, footnotes)
• Ensure all figure and table citations in the text match the files provided
• Indicate clearly if color should be used for any figures in print
Graphical Abstracts / Highlights files (where applicable)
Supplemental files (where applicable)
Revised Manuscript:
•Manuscript file: Include highlights where changes have been made. There should be no tracked changes
•Ensure you submit a separate response to reviewers file

Further considerations
• Manuscript has been 'spell checked' and 'grammar checked'
• All references mentioned in the Reference List are cited in the text, and vice versa
• Permission has been obtained for use of copyrighted material from other sources (including the Internet)
• A competing interests statement is provided, even if the authors have no competing interests to declare
• Journal policies detailed in this guide have been reviewed
• Referee suggestions and contact details provided, based on journal requirements

For further information, visit our Support Center.

BEFORE YOU BEGIN

Ethics in publishing
Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Conflict of interest
All authors are requested to disclose any actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations within three years of beginning the submitted work that could inappropriately influence, or be perceived to influence, their work. See also https://www.elsevier.com/conflictofinterest.

Contributors
All authors must have materially participated in the research and/or article preparation. The statement that all authors have approved the final article should be true and included in the disclosure.

Submission declaration and verification
Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see 'Multiple, redundant or concurrent publication' for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service Crossref Similarity Check.

Preprints
Please note that preprints can be shared anywhere at any time, in line with Elsevier's sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see 'Multiple, redundant or concurrent publication' for more information).

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Articles should make no assumptions about the beliefs or commitments of any reader, should contain nothing which might imply that one individual is superior to another on the grounds of race, sex, culture or any other characteristic, and should use inclusive language throughout. Authors should ensure that writing is free from bias, for instance by using 'he or she', 'his/her' instead of 'he' or 'his', and by making use of job titles that are free of stereotyping (e.g. 'chairperson' instead of 'chairman' and 'flight attendant' instead of 'stewardess').

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) written confirmation (e-mail, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.

Only in exceptional circumstances will the Editor consider the addition, deletion or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended. If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a corrigendum.
**Article transfer service**

This journal is part of our Article Transfer Service. This means that if the Editor feels your article is more suitable in one of our other participating journals, then you may be asked to consider transferring the article to one of those. If you agree, your article will be transferred automatically on your behalf with no need to reformat. Please note that your article will be reviewed again by the new journal. [More information.]

**Copyright**

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' ([see more information on this.](#)). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. **Permission** of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations. If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has [preprinted forms](#) for use by authors in these cases.

For gold open access articles: Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' ([more information](#)). Permitted third party reuse of gold open access articles is determined by the author's choice of [user license](#).

**Author rights**

As an author you (or your employer or institution) have certain rights to reuse your work. [More information.]

Elsevier supports [responsible sharing](#)

Find out how you can [share your research](#) published in Elsevier journals.

**Role of the funding source**

You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

**Funding body agreements and policies**

Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the gold open access publication fee. Details of [existing agreements](#) are available online.

**Open access**

This journal offers authors a choice in publishing their research:

**Subscription**

- Articles are made available to subscribers as well as developing countries and patient groups through our [universal access programs](#).
- No open access publication fee payable by authors.
- The Author is entitled to post the [accepted manuscript](#) in their institution's repository and make this public after an embargo period (known as green Open Access). The [published journal article](#) cannot be shared publicly, for example on ResearchGate or Academia.edu, to ensure the sustainability of peer-reviewed research in journal publications. The embargo period for this journal can be found below.

**Gold open access**

- Articles are freely available to both subscribers and the wider public with permitted reuse.
- A gold open access publication fee is payable by authors or on their behalf, e.g. by their research funder or institution.

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.
For gold open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:

**Creative Commons Attribution (CC BY)**
Lets others distribute and copy the article, create extracts, abstracts, and other revised versions, adaptations or derivative works of or from an article (such as a translation), include in a collective work (such as an anthology), text or data mine the article, even for commercial purposes, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, and do not modify the article in such a way as to damage the author's honor or reputation.

**Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND)**
For non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

The gold open access publication fee for this journal is **USD 1200**, excluding taxes. Learn more about Elsevier's pricing policy: [https://www.elsevier.com/openaccesspricing](https://www.elsevier.com/openaccesspricing).

**Green open access**
Authors can share their research in a variety of different ways and Elsevier has a number of green open access options available. We recommend authors see our [open access page](https://www.elsevier.com/openaccess) for further information. Authors can also self-archive their manuscripts immediately and enable public access from their institution's repository after an embargo period. This is the version that has been accepted for publication and which typically includes author-incorporated changes suggested during submission, peer review and in editor-author communications. Embargo period: For subscription articles, an appropriate amount of time is needed for journals to deliver value to subscribing customers before an article becomes freely available to the public. This is the embargo period and it begins from the date the article is formally published online in its final and fully citable form. [Find out more](https://www.elsevier.com/openaccess).

This journal has an embargo period of 36 months.

**Elsevier Researcher Academy**
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.

**Language and language services**
Authors who require information about language editing and copyediting services pre- and post-submission please visit [https://www.elsevier.com/languageediting](https://www.elsevier.com/languageediting) or our customer support site at [service.elsevier.com](http://service.elsevier.com) for more information.

**Submission**
Submission to this journal proceeds totally online, via [https://www.evise.com/profile/api/navigate/TATE](https://www.evise.com/profile/api/navigate/TATE), and you will be guided stepwise through the creation and uploading of your files. The system automatically converts source files to a single PDF file of the article, which is used in the peer-review process. Please note that even though manuscript source files are converted to PDF files at submission for the review process, these source files are needed for further processing after acceptance. All correspondence, including notification of the Editor's decision and requests for revision, takes place by e-mail removing the need for a paper trail.

**Additional Information**

**Revision Time**
Should authors be requested by the Editors to revise the text, the first revised version should be submitted within 3 months or will be regarded as a new submission. Any further revisions should be submitted within 45 days or will be regarded as a new submission.

Please note that your revised manuscript file should include highlights where changes have been made, but no tracked changes.

**International Comprehensibility**
Please note that every paper must be comprehensible to an international audience. National colloquialisms and idiomatic use of language should therefore be avoided to the extent possible.
You are strongly advised to consult a recent copy of the journal to familiarize yourself with layout and conventions. A free sample copy is available to download from: http://www.sciencedirect.com/science/journal/0742051X.

**Review Policy**

Please note that the journal has adopted a double blind reviewing policy, so authors should use separate pages for all identifying information (name, affiliation etc.). Replace all references to the author in the main paper with "Author, 2003", "Author et al, 2006", etc. In the reference list, use the format "Author 2003 [details removed for peer review]". **Papers that have not had all such features removed will be returned without review to the author for alteration.** Reviewer's names will not be made available to authors under any circumstances.

**PREPARATION**

**Language**

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Italics are not to be used for expressions of Latin origin, for example, in vivo, et al., per se.

Use decimal points (not commas); use a space for thousands (10 000 and above).

**Peer review**

This journal operates a double blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review.

**Double-blind review**

This journal uses double-blind review, which means the identities of the authors are concealed from the reviewers, and vice versa. More information is available on our website. To facilitate this, please include the following separately:

- **Title page (with author details):** This should include the title, authors' names, affiliations, acknowledgements and any Declaration of Interest statement, and a complete address for the corresponding author including an e-mail address.
- **Blinded manuscript (no author details):** The main body of the paper (including the references, figures, tables and any acknowledgements) should not include any identifying information, such as the authors' names or affiliations.

**Use of word processing software**

It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

**Article structure**

**Introduction**

Present purposes of the study and provide background for your work. Include a pertinent literature review with explicit international connections for relevant ideas and explain the theoretical underpinnings and key concepts of your paper, outlining connections to relevant scholarly work in your field of research.

**Methodology and methods**

Provide sufficient detail to allow the context of the work to be thoroughly understood and/or for the work to be reproduced. Provide sufficient detail for readers to understand how you engaged in your inquiry. Clear descriptions of your context and participants along with strategies used to collect and analyze data should be described.
Results
Results should be clear and concise.

Discussion
This section should explore the significance of the results of the work, not repeat them. Combining your results and discussion into a single section may be suitable. Returning to relevant literature from the introduction should show how your work connects with or interrupts already published literature.

Conclusions
The main conclusions of the study may be presented in a short Conclusions section, which may stand-alone or form a subsection of a Discussion or Results and Discussion section.

Appendices
If there is more than one appendix, they should be identified as A, B, etc.

**Essential title page information**

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.

- **Author names and affiliations.** Please clearly indicate the given name(s) and family name(s) of each author and check that all names are accurately spelled. You can add your name between parentheses in your own script behind the English transliteration. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lowercase superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.

- **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

**Abstract**
A concise and factual abstract is required (maximum length of 100 words). The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

**Graphical abstract**
Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site.

Authors can make use of Elsevier's Illustration Services to ensure the best presentation of their images and in accordance with all technical requirements.

**Highlights**
Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 15 words, per bullet point). You can view example Highlights on our information site.
Keywords
Immediately after the abstract, provide a maximum of 6 keywords, avoiding general and plural terms and multiple concepts (avoid, for example, "and", "of"). The controlled list of keywords is based on the ERIC list on index descriptors (for more information, please see: http://www.eric.ed.gov/); however authors may include one or two additional 'free' keywords if they wish to do so. These keywords will be used for indexing purposes.

Abbreviations
Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

Acknowledgements
Collate acknowledgements at the end of the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

Formatting of funding sources
List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzz]; and the United States Institutes of Peace [grant number aaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

Footnotes
Footnotes should be used sparingly. Number them consecutively throughout the article, using superscript Arabic numbers. Many wordprocessors build footnotes into the text, and this feature may be used. Should this not be the case, indicate the position of footnotes in the text and present the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Table footnotes
Indicate each footnote in a table with a superscript lowercase letter.

Word limit
The word limit for a Research Article is 9000, excluding tables and references, and we ask that the word count MUST be between 5000 and 9000 words. Please note that appendices, abstract and footnotes are included in the total word count, while references and tables/figures are excluded from the word count. Authors will be asked to enter the word count of their manuscript upon submission.

References
Please ensure that your references are APA (6th) compliant, please read the paragraph on References thoroughly. Please also ensure to reference your work as well as other's thoroughly, or we will return your paper to you for further editing.

Artwork
Electronic artwork
General points
- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the used fonts if the application provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
• Provide captions to illustrations separately.
• Size the illustrations close to the desired dimensions of the published version.
• Submit each illustration as a separate file.

A detailed guide on electronic artwork is available.

You are urged to visit this site; some excerpts from the detailed information are given here.

**Formats**

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.

Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

**EPS (or PDF):** Vector drawings, embed all used fonts.
**TIFF (or JPEG):** Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
**TIFF (or JPEG):** Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
**TIFF (or JPEG):** Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

**Please do not:**

• Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
• Supply files that are too low in resolution;
• Submit graphics that are disproportionately large for the content.

**Color artwork**

Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color online (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article. Please indicate your preference for color: in print or online only. Further information on the preparation of electronic artwork.

**Figure captions**

Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (not on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

**Tables**

Please submit tables as editable text and not as images. Tables can be placed either next to the relevant text in the article, or on separate page(s) at the end. Number tables consecutively in accordance with their appearance in the text and place any table notes below the table body. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

**References**

**Citation in text**

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

**Web References**

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (author names, dates, reference to a source publication, etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.
Data references
This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

References in a special issue
Please ensure that the words ‘this issue’ are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

Reference management software
Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley. Using citation plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal’s style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes from different reference management software.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:
When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

Reference Style
Text: Citations in the text should follow the referencing style used by the American Psychological Association. You are referred to the Publication Manual of the American Psychological Association, Sixth Edition, ISBN 978-1-4338-0561-5, copies of which may be ordered online or APA Order Dept., P.O.B. 2710, Hyattsville, MD 20784, USA or APA, 3 Henrietta Street, London, WC3E 8LU, UK.
List: references should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', 'c', etc., placed after the year of publication.
Examples:
Reference to a book (note upper/lower case and punctuation conventions)

Reference to a journal article (as above plus note multiple author and volume, issue and page numbering conventions for articles)

Reference to a book Chapter (as above, plus note page numbering convention for chapters)

Reference to a website entry (note that acronym should be accompanied by definition the first time it is used)

Reference to conference presentation in proceedings

Please note that it is the authors' responsibility to ensure that referencing is consistent with APA (6th) as per the examples above. Manuscripts that are not consistent with APA (6th) may be rejected without review.
For further guidance with APA (6th) the following link may be useful: http://sydney.edu.au/library/subjects/downloads/citation/APA%20Complete_2012.pdf
We ask that authors pay close attention to constancy and accuracy in their reference section:

Use of DOIs (A Digital Object Identifier) should be consistent and accurate. A DOI can be used to cite and link to electronic articles where an article is in-press and full citation details are not yet known, but the article is available online. If you choose to include DOIs for published articles no longer in press, we ask that you do this consistently throughout your entire reference section. Please check that all DOIs added are accurate.

All references requiring page numbers (i.e., journal articles and book chapters) should also be checked and updated prior to submitting your paper.

**Data references**

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset.

**Video**

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. In order to ensure that your video or animation material is directly usable, please provide the file in one of our recommended file formats with a preferred maximum size of 150 MB per file, 1 GB in total. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including ScienceDirect. Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our video instruction pages. Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

**Supplementary material**

Supplementary material such as applications, images and sound clips, can be published with your article to enhance it. Submitted supplementary items are published exactly as they are received (Excel or PowerPoint files will appear as such online). Please submit your material together with the article and supply a concise, descriptive caption for each supplementary file. If you wish to make changes to supplementary material during any stage of the process, please make sure to provide an updated file. Do not annotate any corrections on a previous version. Please switch off the 'Track Changes' option in Microsoft Office files as these will appear in the published version.

**Research data**

This journal encourages and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project.

Below are a number of ways in which you can associate data with your article or make a statement about the availability of your data when submitting your manuscript. If you are sharing data in one of these ways, you are encouraged to cite the data in your manuscript and reference list. Please refer to the "References" section for more information about data citation. For more information on depositing, sharing and using research data and other relevant research materials, visit the research data page.

**Data linking**

If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.

There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the database linking page.
For **supported data repositories** a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

**Mendeley Data**

This journal supports Mendeley Data, enabling you to deposit any research data (including raw and processed data, video, code, software, algorithms, protocols, and methods) associated with your manuscript in a free-to-use, open access repository. During the submission process, after uploading your manuscript, you will have the opportunity to upload your relevant datasets directly to **Mendeley Data**. The datasets will be listed and directly accessible to readers next to your published article online.

For more information, visit the Mendeley Data for journals page.

**Data in Brief**

You have the option of converting any or all parts of your supplementary or additional raw data into one or multiple data articles, a new kind of article that houses and describes your data. Data articles ensure that your data is actively reviewed, curated, formatted, indexed, given a DOI and publicly available to all upon publication. You are encouraged to submit your article for **Data in Brief** as an additional item directly alongside the revised version of your manuscript. If your research article is accepted, your data article will automatically be transferred over to **Data in Brief** where it will be editorially reviewed and published in the open access data journal, **Data in Brief**. Please note an open access fee of 600 USD is payable for publication in **Data in Brief**. Full details can be found on the Data in Brief website. Please use this template to write your Data in Brief.

**Data statement**

To foster transparency, we encourage you to state the availability of your data in your submission. This may be a requirement of your funding body or institution. If your data is unavailable to access or unsuitable to post, you will have the opportunity to indicate why during the submission process, for example by stating that the research data is confidential. The statement will appear with your published article on ScienceDirect. For more information, visit the **Data Statement** page.

**AFTER ACCEPTANCE**

**Online proof correction**

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors.

If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

**Offprints**

The corresponding author will, at no cost, receive a customized Share Link providing 50 days free access to the final published version of the article on ScienceDirect. The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier’s Webshop. Corresponding authors who have published their article gold open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

**Additional information**

**Discount**
Authors are entitled to a 30% discount on Elsevier books (excluding major reference works).

**Fast electronic publication**
Once the article has been proofed by the author, it will be published immediately on the journal's 'Articles in Press' section online, thus making it available to subscribers to read and cite. For more information, visit: [http://www.sciencedirect.com/science/journal/0742051X](http://www.sciencedirect.com/science/journal/0742051X).

**AUTHOR INQUIRIES**
Visit the Elsevier Support Center to find the answers you need. Here you will find everything from Frequently Asked Questions to ways to get in touch. You can also check the status of your submitted article or find out when your accepted article will be published.

© Copyright 2018 Elsevier | https://www.elsevier.com