DESCRIPTION

Contemporary Educational Psychology publishes articles that involve the application of psychological theory and science to the educational process. Of particular relevance are descriptions of empirical research and the presentation of theory designed to either explicate or enhance the educational process. The journal places great value on the quality of research methodology. This includes the participant sample being representative of the intended population (and not just a sample of convenience), measures having demonstrated psychometric quality including both reliability and validity (avoiding, for example, excessive reliance on self-report measures), literature reviews that support the methods employed, and analyses that are both appropriate and accurately described. The journal publishes quantitative, qualitative, and single-subject design studies that involve the application of psychological science to an important educational process, issue, or problem.

The journal does not limit its scope to any age range. Articles dealing with the education of preschoolers, K-12 children, adults, and the elderly are all relevant if they apply psychological theory and science to the process of education. Likewise, articles that make a substantial contribution to the understanding of individual differences in the process of learning are also appropriate. The journal does not focus on a particular educational setting. Articles applying psychological theory and research methods in school settings, industry, or other formal or informal settings involving adults or children are relevant, assuming they are judged in the review process to advance the science of education.

Contemporary Educational Psychology features:

- Original research articles covering both classroom and laboratory experiments as they emphasize problem solving
- Instructional techniques reporting on instructional techniques when the use of adequate controls demonstrates the validity of the findings
- Meta-analytic research reviews on selected educational topics reflecting implications for the field of educational psychology.

IMPACT FACTOR

2018: 2.484 © Clarivate Analytics Journal Citation Reports 2019
**ABSTRACTING AND INDEXING**

Contents Pages in Education  
Australian Educational Index  
Current Contents  
EBSCOhost  
Education Index  
Education Research Index  
ERA (Educational Research Abstracts Online)  
Pascal Francis  
PsycINFO  
Research into Higher Education Abstracts  
Social Sciences Citation Index  
Sociology of Education Abstracts  
Special Educational Abstracts  
SwetsWise All Titles  
PubMed/Medline  
BIOSIS Previews  
Pascal Francis  
EMCARE  
Arts & Humanities Search  
Social SciSearch  
MathEduc

**EDITORIAL BOARD**

*Editor*  
Patricia Alexander, University of Maryland at College Park, College Park, Maryland, United States

*Associate Editors*  
Daniel Dinsmore, University of North Florida, Jacksonville, Florida, United States  
Doug Lombardi, Temple University, Philadelphia, Pennsylvania, United States  
Sofie Loyens, University College Roosevelt, Middelburg, Netherlands  
Matthew McCrudden, Pennsylvania State University, University Park, Pennsylvania, United States  
Christine Rubie-Davies, The University of Auckland, Auckland, New Zealand

*Editorial Board*  
Olusola Adesope, Washington State University, Pullman, Washington, United States  
Steve Alesi, The University of Iowa, Iowa City, Iowa, United States  
Eric Anderman, OHIO STATE UNIVERSITY, Columbus, Ohio, United States  
Lynley Anderman, OHIO STATE UNIVERSITY, Columbus, Ohio, United States  
Carolyn Barber, University of Missouri Kansas City, Kansas City, Missouri, United States  
Sarit Barzilai, University of Haifa, Haifa, Israel  
Brian Bellard, Pennsylvania State University, University Park, Pennsylvania, United States  
Lisa Bendixen, University of Nevada Las Vegas, Las Vegas, Nevada, United States  
Stephen L. Benton, The Idea Center, Manhattan, Kansas, United States  
Bradley Bergey, Queens College, Flushing, New York, United States  
Matthew Bernacki, University of Nevada Las Vegas, Las Vegas, Nevada, United States  
Lori Bland, George Mason University, Fairfax, Virginia, United States  
Catherine M. Bohn-Gettler, College of Saint Benedict and Saint John's University, Saint Joseph, Minnesota, United States  
Mimi Bong, Korea University, Seoul, Korea, Republic of  
Jason Braasch, The University of Memphis, Memphis, Tennessee, United States  
Ivar Bråten, University of Oslo, Oslo, Norway  
Rainer Bromme, University of Münster, Münster, Germany  
Kira Carbonneau, Washington State University, Pullman, Washington, United States  
Ang Chen, University of North Carolina at Greensboro, Greensboro, North Carolina, United States  
Jason Chen, William & Mary, Williamsburg, Virginia, United States  
Jennifer Cromley, Temple University, Philadelphia, Pennsylvania, United States  
Dionne Cross, Indiana University Bloomington, Bloomington, Indiana, United States  
Ting Dai, University of Illinois at Chicago, Chicago, Illinois, United States  
Theresa DeBacker, University of Oklahoma, Norman, Oklahoma, United States  
Jessica DeCuir-Gunby, North Carolina State University, Raleigh, North Carolina, United States
Denis Dumas, Howard University, Washington, District of Columbia, United States
Alexander Eitel, University of Giessen, Gießen, Germany
Carla Firetto, Arizona State University, Tempe, Arizona, United States
Terri Flowerday, University of New Mexico, Albuquerque, New Mexico, United States
Emily Fox, University of Maryland at College Park, College Park, Maryland, United States
James W. Fryer, SUNY Potsdam, Potsdam, New York, United States
Luke K. Fryer, University of Hong Kong, Hong Kong, Hong Kong
Xun Ge, University of Oklahoma, Norman, Oklahoma, United States
David Gijbels, University of Antwerp, Wilrijk-Antwerp, Belgium
Thomas G. Goetz, University of Konstanz, Konstanz, Germany
Tamarana van Gog, Utrecht University, Utrecht, Netherlands
DeLeon Gray, North Carolina State University, Raleigh, North Carolina, United States
Jeffrey Greene, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, United States
Emily Grossnickle Peterson, Georgetown University, Washington, District of Columbia, United States
Antonio Gutierrez de Blume, Georgia Southern University, Statesboro, Georgia, United States
Benjamin Heddy, University of Oklahoma, Norman, Oklahoma, United States
Maeghan Hennessey, University of Oklahoma, Norman, Oklahoma, United States
Jonathan C. Hilpert, Georgia Southern University, Statesboro, Georgia, United States
Bob Hoffman, University of Central Florida, Orlando, Florida, United States
Ji Hong, University of Oklahoma, Norman, Oklahoma, United States
Marcus Johnson, University of Cincinnati, Cincinnati, Ohio, United States
Martin Jones, University of New Mexico, Albuquerque, New Mexico, United States
Ton de Jong, University of Twente, Enschede, Netherlands
Sean Kang, Dartmouth College, Hanover, New Hampshire, United States
Avi Kaplan, Temple University, Philadelphia, Pennsylvania, United States
CarolAnne Kardash, University of Nevada Las Vegas, Las Vegas, Nevada, United States
Douglas Kauffman, University of Nebraska-Lincoln, Lincoln, Nebraska, United States
Panayiota Kendeou, University of Minnesota, Minneapolis, Minnesota, United States
Diane Ketelhut, Temple University, Philadelphia, Pennsylvania, United States
Ronnie King, The Education University of Hong Kong Department of Curriculum and Instruction, Hong Kong, Hong Kong
Anastasia Kitsantas, George Mason University, Fairfax, Virginia, United States
Eva Kyndt, KU Leuven, Leuven, Belgium
Lisa Linnenbrink-Garcia, Duke University, Durham, North Carolina, United States
Alex List, Ball State University, Muncie, Indiana, United States
Francesca Lopez, University of Arizona, Tucson, Arizona, United States
Gwen Marchand, University of Nevada Las Vegas, Las Vegas, Nevada, United States
Andrew Martin, University of New South Wales, Sydney, New South Wales, Australia
Lucia Mason, University of Padua, Padova, Italy
Jamaal Matthews, Montclair State University, Montclair, New Jersey, United States
Richard Mayer, University of California Santa Barbara, Santa Barbara, California, United States
Dennis McInerney, The Education University Hong Kong Department of Psychology, Hong Kong, Hong Kong
Jake McMullen, University of Turku Department of Teacher Education, Turun Yliopisto, Finland
David Miele, Boston College, Chestnut Hill, Massachusetts, United States
Daniel Moos, Gustavus Adolphus College, Saint Peter, Minnesota, United States
Katherine Muenks, The University of Texas at Austin, Austin, Texas, United States
Krista Muis, McGill University, Montréal, Quebec, Canada
P. Karen Murphy, Pennsylvania State University, University Park, Pennsylvania, United States
Kristie Newton, Temple University, Philadelphia, Pennsylvania, United States
Michael Nussbaum, University of Nevada Las Vegas, Las Vegas, Nevada, United States
Reinhard Pekrun, Ludwig Maximilians University Munich, Munich, Germany
Tony Perez, Old Dominion University, Norfolk, Virginia, United States
Geetha Ramani, University of Maryland at College Park, College Park, Maryland, United States
John Ranellucci, Michigan State University, East Lansing, Michigan, United States
Thomas G. Reio, Jr., Florida International University, Miami, Florida, United States
Remy Rikers, Erasmus University Rotterdam, Rotterdam, Netherlands
Julian Roelle, Bielefeld University, Bielefeld, Germany
Emily Q. Rosenzweig, University of Georgia Department of Psychology, Athens, Georgia, United States
Erik A. Ruzek, University of Virginia, Charlottesville, Virginia, United States
Marlene Schommer-Aikins, Wichita State University, Wichita, Kansas, United States
Paul Schutz, University of Texas at San Antonio, San Antonio, Texas, United States
Corwin Senko, SUNY New Paltz, New Paltz, New York, United States
Rebecca Silverman, University of Maryland at College Park, College Park, Maryland, United States
Gale Sinatra, University of Southern California, Los Angeles, California, United States
Deborah Speece, Virginia Commonwealth University, Richmond, Virginia, United States
Rayne Sperling, Pennsylvania State University, University Park, Pennsylvania, United States
Marc Stadtler, Ruhr University Bochum, Bochum, Germany

AUTHOR INFORMATION PACK 13 Jun 2020 www.elsevier.com/locate/cedpsych
Jon Star, Harvard University, Cambridge, Massachusetts, United States
Tara Stevens, TEXAS TECH UNIVERSITY, Lubbock, Texas, United States
Helge Strømsø, University of Oslo, Oslo, Norway
John R. Surber, University of Wisconsin Milwaukee, Milwaukee, Wisconsin, United States
Keith W. Thiede, Boise State University, Boise, Idaho, United States
Anneke C. Timmermans, University of Groningen, Groningen, Netherlands
Timothy Urdan, Santa Clara University, Santa Clara, California, United States
Ellen Usher, University of Kentucky, Lexington, Kentucky, United States
Peggy Van Meter, Pennsylvania State University, University Park, Pennsylvania, United States
Min Wang, University of Maryland at College Park, College Park, Maryland, United States
Helen Watt, Monash University, Clayton, Victoria, Australia
Lisette Wijnia, University College Roosevelt, Middelburg, Netherlands
Kui Xie, OHIO STATE UNIVERSITY, Columbus, Ohio, United States
Sharon Zumbrunn, Virginia Commonwealth University, Richmond, Virginia, United States
GUIDE FOR AUTHORS

Your Paper Your Way
We now differentiate between the requirements for new and revised submissions. You may choose to submit your manuscript as a single Word or PDF file to be used in the refereeing process. Only when your paper is at the revision stage, will you be requested to put your paper in to a "correct format" for acceptance and provide the items required for the publication of your article.

To find out more, please visit the Preparation section below.

INTRODUCTION
Contemporary Educational Psychology publishes articles that involve the application of psychological theory and science to the educational process. Of particular relevance are descriptions of, research reviews of, and the presentation of theory designed to either explicate or enhance the educational process. The journal publishes quantitative, qualitative, and single-subject design studies that involve the application of psychological science to an important educational process, issue, or problem.

The journal does not limit its scope to any age range. Articles dealing with the education of preschoolers, K-12 children, adults, and the elderly are all relevant if they apply psychological theory and science to the process of education. Likewise, articles that make a substantial contribution to the understanding of individual differences in the process of learning are also appropriate. The journal does not focus on a particular educational setting. Articles applying psychological theory and research methods in school settings, industry, or other formal or informal settings involving adults or children are relevant, assuming they are judged in the review process to advance the science of education.

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:
- Please ensure that you have fully blinded your manuscript before submission. Find guidance on how to do this here
- 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)

Further considerations
- Manuscript has been 'spell checked' and 'grammar checked'
- Manuscript is prepared in APA style
- 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)
- Relevant declarations of interest have been made
- 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.

**Studies in humans and animals**
If the work involves the use of human subjects, the author should ensure that the work described has been carried out in accordance with The Code of Ethics of the World Medical Association (Declaration of Helsinki) for experiments involving humans. The manuscript should be in line with the Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals and aim for the inclusion of representative human populations (sex, age and ethnicity) as per those recommendations. The terms sex and gender should be used correctly.

Authors should include a statement in the manuscript that informed consent was obtained for experimentation with human subjects. The privacy rights of human subjects must always be observed.

All animal experiments should comply with the ARRIVE guidelines and should be carried out in accordance with the U.K. Animals (Scientific Procedures) Act, 1986 and associated guidelines, EU Directive 2010/63/EU for animal experiments, or the National Institutes of Health guide for the care and use of Laboratory animals (NIH Publications No. 8023, revised 1978) and the authors should clearly indicate in the manuscript that such guidelines have been followed. The sex of animals must be indicated, and where appropriate, the influence (or association) of sex on the results of the study.

**Declaration of interest**
All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential competing interests include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors must disclose any interests in two places: 1. A summary declaration of interest statement in the title page file (if double-blind) or the manuscript file (if single-blind). If there are no interests to declare then please state this: 'Declarations of interest: none'. This summary statement will be ultimately published if the article is accepted. 2. Detailed disclosures as part of a separate Declaration of Interest form, which forms part of the journal’s official records. It is important for potential interests to be declared in both places and that the information matches. More information.

**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').

**Author contributions**
For transparency, we encourage authors to submit an author statement file outlining their individual contributions to the paper using the relevant CRediT roles: Conceptualization; Data curation; Formal analysis; Funding acquisition; Investigation; Methodology; Project administration; Resources;
Software; Supervision; Validation; Visualization; Roles/Writing - original draft; Writing - review & editing. Authorship statements should be formatted with the names of authors first and CRediT role(s) following. More details and an example

**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.

**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.

**Open access**

Please visit our Open Access page for more information.

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 (usage and editing services)**

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier’s Author Services.
Submission
Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor's decision and requests for revision, is sent by e-mail.

Submit your article
Please submit your article via https://www.editorialmanager.com/CEDPSYCH/default.aspx

PRESENTATION
Authors are requested to follow the instructions given in the most recent edition of the Publication Manual of 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 from http://www.apa.org/books/4200066.html or APA Order Dept., P.O.B. 2710, Hyattsville, MD 20784, USA or APA, 3 Henrietta Street, London, WC3E 8LU, UK. Please write your text in clear 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) for data reporting; use a comma for thousands (10,000 and above). Use clear heading and paragraph markings. The usual headings (which may include subheadings) are Introduction, Method, Results and Discussion.

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
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.
Material and methods
Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized, and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

Results
Results should be clear and concise.

Discussion
This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of 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. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, 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. Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case 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. Ensure that telephone and fax numbers (with country and area code) are provided in addition to the e-mail address and the complete postal address. 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.

This data should appear on the title page only as manuscripts are sent out for blind review.

Highlights
Highlights are mandatory for this journal as they help increase the discoverability of your article via search engines. They consist of a short collection of bullet points that capture the novel results of your research as well as new methods that were used during the study (if any). Please have a look at the examples here: example Highlights.

Highlights 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 85 characters, including spaces, per bullet point).

Abstract
A concise and factual abstract is required. 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
• Ensure that color images are accessible to all, including those with impaired color vision.

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 (DOI, 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:
http://open.mendeley.com/use-citation-style/contemporary-educational-psychology

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 journal publication:
Reference to a journal publication with an article number:
Reference to a book:
Reference to a chapter in an edited book:
Reference to a website:
Reference to a dataset:
Reference to a conference paper or poster presentation:
Journal abbreviations source

Journal names should be abbreviated according to the List of Title Word Abbreviations.

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陈endeley 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
To ensure a fast publication process of the article, we kindly ask authors to provide us with their proof corrections within two days. 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 Author Services. 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.

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.