Effective 1 January 2021 Acta Psychologica became an open access journal. Authors who publish in Acta Psychologica will be able to make their work immediately, permanently, and freely accessible. The journal utilizes the same rigorous peer review.

Acta Psychologica is a peer-reviewed, open access journal that invites high-quality submissions in six different sections: cognition, social psychology, clinical and health psychology, language psychology, individual differences, and lifespan development. Acta Psychologica has published seminal papers in the past and intends to do so in the future; hence, contributions that have limited theoretical or practical impact will not be prioritized, nor will studies with limited statistical power. We aim to publish articles that serve as solid building blocks for a research field while still being accessible for readers outside this field. We welcome research studies (including replications), review articles, meta-analyses, and registered reports. Proposals for special issues should be made via the Section Editors. The journal embraces all aspects of open science and, to that end, researchers are encouraged to preregister their studies and/or share their data.

Clinical and Health Psychology

The clinical and health psychology section publishes research studies and systematic review articles in any area of clinical psychology or health psychology. These are applied areas of psychology and, consequently, papers reporting the results of research in an applied setting are particularly welcome. We are also keen to receive papers reporting theoretical advances that have implications for applied clinical or health psychology. Papers must report the findings of research conducted with a robust methodology, where the findings will forward knowledge or practice in clinical or health psychology. The research methodology is not restricted. The section publishes research using quantitative or qualitative approaches and also publishes papers reporting the development of new research methods or designs that are particularly relevant to clinical or health psychology. We expect that authors will conform to the most appropriate reporting guidelines when writing their research paper (www.equator-network.org).

Cognition

The cognition section publishes research studies, review articles, and special issues in any area of cognitive psychology, excluding language research as there is a section devoted to language psychology. The majority of the articles deal with perception, attention, working memory, long-term memory, decision making, cognitive and/or affective control, and motor cognition. Research studies...
should be focused on increasing our understanding of human behavior and cognition. We publish behavioral and neuroscientific papers (EEG, fMRI, TMS, etc.). Papers outside this scope and papers with limited theoretical value will not be considered. Special issues are typically by invitation, but authors can contact the Section Editor for an informal inquiry. Acta Psychologica has published seminal papers in the past and intends to do so in the future. We aim to publish articles that serve as solid building blocks for a research field while still being accessible for researchers outside this field. We strive to publish well-powered studies rather than deciding about papers exclusively from the viewpoint of originality. Hence, we will also consider replication studies.

Individual Differences

The individual differences section welcomes papers that make an important contribution to our understanding of core individual differences in personality, intelligence and other cognitive abilities, mood, and motivation and their measurement. We particularly welcome submissions that enhance our understanding of the mechanisms by which individual differences develop and operate by relating questionnaire and test scores to behavioral, developmental, social, physiological, genetic, and cognitive variables and processes. We are also pleased to consider work that relates scores on questionnaires or tests to important real-life behaviors. However, other journals are more suitable for language-translated questionnaires, routine validations, cross-cultural comparisons, and correlational studies, which do not advance our understanding of core individual differences.

Language Psychology

The language section publishes research studies, review articles, and special issues in any area of research related to the cognitive science of language. Studies of language acquisition, language comprehension, and language production, as well as studies looking at the interplay between cognitive and linguistic processes, will be considered. Replication studies and registered reports are welcome. Contributors interested in developing a special issue should consult with the Section Editor. We aim to publish robust findings. As such, in addition to considerations of a manuscript's theoretical and empirical contribution, we will consider issues related to the reproducibility of research findings (e.g., adequate sample sizes, replications of the main research findings, adherence to open science practices).

Lifespan Development

The lifespan development section is committed to publishing high-quality empirical studies across the lifespan in the following general areas: cognition, emotion, language, motor, parenting, perception, and socialization. Studies involving samples of children, parents, and families in any developmental period from prenatal to gerontological are invited. We welcome basic and applied research addressing development using a variety of rigorous methodologies from qualitative, to quantitative, or mixed that involve cross-sectional or longitudinal designs, as well as intervention research to inform educational and clinical practice and policy. Measures can be behavioral, self-report, physiological, or computational, ideally from multiple sources. Article formats can include empirical reports, theoretical and methodological reports, brief reports (short communications), and review papers including systematic reviews or meta-analyses.

Social Psychology

The social psychology section publishes novel and innovative studies that investigate how people's feelings, thoughts, and behaviors are influenced by others. Topics can cover all aspects of basic and applied social psychological research. Although the typical submission contains original data, theoretical articles and reviews, as well as replications of previous research, are also welcome. A strong focus is on the replicability of the presented findings. Hence, we ask for well-powered studies that employ sound measures. Detailed power considerations (including a justification for the expected effect size) should be reported and authors are encouraged to preregister their studies. Authors should also explicitly indicate whether there were any data exclusions and whether all manipulations and measures are reported. Upon acceptance, authors are encouraged to share their data and materials publicly.

Benefits to authors
We also provide many author benefits, such as free PDFs, a liberal copyright policy, special discounts on Elsevier publications and much more. Please click here for more information on our author services.

Please see our Guide for Authors for information on article submission. If you require any further information or help, please visit our Support Center.

AUDIENCE

All those interested in human perceptual processes (visual, auditory, chemical senses), in studies of perceptual judgment or discrimination, time perception, reaction time, motor performance, and in cognitive processes of learning, memory, decision making, attention, etc.

IMPACT FACTOR

2019: 1.380 © Clarivate Analytics Journal Citation Reports 2020

ABSTRACTING AND INDEXING

Sociological Abstracts
PsycINFO
Current Contents - Social & Behavioral Sciences
BIOSIS Citation Index
PubMed/Medline
Social Sciences Citation Index
Directory of Open Access Journals (DOAJ)
Ergonomics Abstracts
Applied Social Science Index and Abstracts
SWIDOC
Scopus

EDITORIAL BOARD

Covering all fields of Psychology
Clinical and Health Psychology

Section Editor
Martin Dempster, Queen's University Belfast, Belfast, United Kingdom
Health psychology, Behaviour change

Associate Editors
Rebecca Maguire, National University of Ireland Maynooth, Department of Psychology, Maynooth, Ireland
Noleen McCorry, Queen's University Belfast, School of Medicine, Dentistry and Biomedical Sciences, Belfast, United Kingdom
Debbie Smith, The University of Manchester, Division of Psychology and Mental Health, Manchester, United Kingdom
Anna Wikman, Uppsala University, Department of Women's and Children's Health, Uppsala, Sweden

Editorial Board Members
Emma Berry, Queen's University Belfast School of Psychology, Belfast, United Kingdom
Sinead Currie, University of Stirling, Stirling, United Kingdom
Lisa Graham-Wisener, Queen's University Belfast School of Psychology, Belfast, United Kingdom
Emma Hovén, Uppsala University, Uppsala, Sweden
Arthur F. Kramer, University of Illinois at Urbana-Champaign, Department of Psychology, Champaign, Illinois, United States of America
Eric Kruger, The University of New Mexico, Albuquerque, New Mexico, United States of America
Daryl Niedermoser, University Psychiatric Clinics Basel, Basel, Switzerland
Cognition

Section Editor
Wim Notebaert, Ghent University, Gent, Belgium

Associate Editors
Ulrich Ettinger, University of Bonn, Bonn, Germany
Jacob Lund Orquin, Aarhus University, Aarhus, Denmark
Bennett L. Schwartz, Florida International University Department of Psychology, Miami, Florida, United States of America
Robrecht Van Der Wel, Rutgers University-Camden, Department of Psychology, Camden, New Jersey, United States of America

Editorial Board Members
Tom Beckers, University of Amsterdam, Amsterdam, Netherlands
Nicola Bruno, University of Parma, Department of Humanities, Social Sciences and Cultural Industries, Parma, Italy
Johan Hulleman, The University of Manchester, Division of Neuroscience & Experimental Psychology, Manchester, United Kingdom
Iring Koch, RWTH Aachen University, Institute of Psychology, Aachen, Germany
Jeff Miller, University of Otago, Department of Psychology, Dunedin, New Zealand
Jeroen B.J. Smeets, VU Amsterdam, Department of Human Movement Sciences, Amsterdam, Netherlands
Howard N. Zelaznik, Purdue University, Department of Health and Kinesiology, West Lafayette, Indiana, United States of America
Hubert Zimmer, Saarland University, Department of Psychology, Saarbrücken, Germany

Individual Differences

Section Editors
Colin Cooper, Queen's University Belfast, Belfast, United Kingdom
Julie Aitken Schermer, The University of Western Ontario, London, Ontario, Canada

Associate Editors
Dimitri van der Linden, Erasmus University Rotterdam, Department of Psychology, Education and Child Studies, Rotterdam, Netherlands
Kostas Papageorgiou, Queen's University Belfast, School of Psychology, Belfast, United Kingdom
Radoslaw Rogoza, Cardinal Wyszyński University in Warsaw, Warszawa, Poland

Editorial Board Members
Alyson Blanchard, Bishop Grosseteste University, Lincoln, United Kingdom
Dzintra Iliško, Daugavpils University, Daugavpils, Latvia
Tatiana Volkodav, Kuban State University, Krasnodar, Russian Federation

Language Psychology

Section Editor
Michael Kaschak, Florida State University, Tallahassee, Florida, United States of America

Associate Editors
Pia Knoeferle, Humboldt University Berlin, Institute of German Language and Linguistics, Berlin, Germany
Kristen Tooley, Texas State University, Department of Psychology, San Marcos, Texas, United States of America

Editorial Board Members
Venu Balasubramanian, Seton Hall University, South Orange, New Jersey, United States of America
Iring Koch, RWTH Aachen University, Institute of Psychology, Aachen, Germany

Lifespan Development

Section Editors
Martha E. Arterberry, Colby College, Waterville, Maine, United States of America
Gary Resnick, Consultant, San Francisco, California, United States of America

Associate Editors
Gianluca Esposito, Nanyang Technological University, Department of Psychology, Singapore, Singapore
Gizem Hueluer, University of South Florida, School of Aging Studies, Tampa, Florida, United States of America
Brett Laursen, Florida Atlantic University, Department of Psychology, Boca Raton, Florida, United States of America
Angeline Lillard, University of Virginia Department of Psychology, Charlottesville, Virginia, United States of America
Paul Oburu, Maseno University, Department of Psychology, Maseno, Kenya

Editorial Board Members
Jean-Remy Hochmann, Marc Jeannerod, Institute for Cognitive Sciences, Paris, France
Arthur F. Kramer, University of Illinois at Urbana-Champaign, Department of Psychology, Champaign, Illinois, United States of America
Birthe Macdonald, University of Zurich Department of Psychology, Zurich, Switzerland
Gudrun Schwarzer, University of Giessen, Department of Developmental Psychology, Giessen, Germany
Bahar Tuncgenc, University of Nottingham, School of Psychology, Nottingham, United Kingdom
Lu Wang, Ball State University, Department of Educational Psychology, Chicago, Illinois, United States of America
Zhidan Wang, Jiangsu Normal University, School of Education Science, Xuzhou, China
Rachel Wu, University of California Riverside, Department of Psychology, Riverside, California, United States of America

Social Psychology

Section Editor
Tobias Greitemeyer, University of Innsbruck, Institute for Psychology, Innsbruck, Austria

Associate Editors
Jens Binder, Nottingham Trent University, Nottingham, United Kingdom
Namkje Koudenburg, University of Groningen, Groningen, Netherlands
Cátia P. Teixeira, University of Groningen, Groningen, Netherlands
Claudia Toma, ULB Solvay Brussels School of Economics and Management, Bruxelles, Belgium

Editorial Board Members
Suha Al-Hassan, The Hashemite University, Queen Rania Faculty for Childhood Department of Early Childhood Education, Zarqa, Jordan
Dawn DeLay, Arizona State University T Denny Sanford School of Social and Family Dynamics, Tempe, Arizona, United States of America
Johanna Drewelies, Humboldt University of Berlin Institute of Psychology, Berlin, Germany
Erika Hoff, Florida Atlantic University - Davie Campus, Davie, Florida, United States of America
Hui Jing Lu, The Hong Kong Polytechnic University Department of Applied Social Sciences, Kowloon, Hong Kong
Tamar Kushnir, Cornell University, Ithaca, New York, United States of America
Lili Ma, Ryerson University Department of Psychology, Toronto, Ontario, Canada
Takashi Nakagawa, National University Corporation Kyushu University, Fukuoka, Japan
Takeshi Nakagawa, National Center for Geriatrics and Gerontology, Obu, Japan
Peter Noack, Friedrich Schiller University Jena, Jena, Germany
Jie Ren, University of Toronto Department of Psychology, Toronto, Ontario, Canada
Rachel Severson, University of Montana Missoula Department of Psychology, Missoula, Montana, United States of America
Andrew Shtultman, Occidental College Department of Psychology, Los Angeles, California, United States of America
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.

Types of Article

NEW! Registered reports (click here for more details). These submissions undergo a two-phase review process in which study rationale and methodology are considered prior to the research being undertaken.

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:
• 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'
• 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 on Ethics in publishing.

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 anonymized) or the manuscript file (if single anonymized). If there are no interests to declare then please state this: 'Declarations of interest: none'. 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. Content should make no assumptions about the beliefs or commitments of any reader; contain nothing which might imply that one individual is superior to another on the grounds of age, gender, race, ethnicity, culture, sexual orientation, disability or health condition; and use inclusive language throughout. Authors should ensure that writing is free from bias, stereotypes, slang, reference to dominant culture and/or cultural assumptions. We advise to seek gender neutrality by using plural nouns ("clinicians, patients/clients") as default/wherever possible to avoid using "he, she," or "he/she." We recommend avoiding the use of descriptors that refer to personal attributes such as age, gender, race, ethnicity, culture, sexual orientation, disability or health condition unless they are relevant and valid. These guidelines are meant as a point of reference to help identify appropriate language but are by no means exhaustive or definitive.

**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 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/actpsy/default.aspx

**PREPARATION**

**NEW SUBMISSIONS**

Submission to this journal proceeds totally online and you will be guided stepwise through the creation and uploading of your files. The system automatically converts your files to a single PDF file, which is used in the peer-review process.

As part of the Your Paper Your Way service, you may choose to submit your manuscript as a single file to be used in the refereeing process. This can be a PDF file or a Word document, in any format or layout that can be used by referees to evaluate your manuscript. It should contain high enough quality figures for refereeing. If you prefer to do so, you may still provide all or some of the source files at the initial submission. Please note that individual figure files larger than 10 MB must be uploaded separately.
References
There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the article number or pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct.

Formatting requirements
There are no strict formatting requirements but all manuscripts must contain the essential elements needed to convey your manuscript, for example Abstract, Keywords, Introduction, Materials and Methods, Results, Conclusions, Artwork and Tables with Captions.

If your article includes any Videos and/or other Supplementary material, this should be included in your initial submission for peer review purposes.

Divide the article into clearly defined sections.

Figures and tables embedded in text
Please ensure the figures and the tables included in the single file are placed next to the relevant text in the manuscript, rather than at the bottom or the top of the file. The corresponding caption should be placed directly below the figure or table.

Peer review
This journal operates a double anonymized 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. Editors are not involved in decisions about papers which they have written themselves or have been written by family members or colleagues or which relate to products or services in which the editor has an interest. Any such submission is subject to all of the journal's usual procedures, with peer review handled independently of the relevant editor and their research groups. More information on types of peer review.

REVISED SUBMISSIONS
Use of word processing software
Regardless of the file format of the original submission, at revision you must provide us with an editable file of the entire article. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier). 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
Subdivision - numbered sections
Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

Introduction
State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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.** 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 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. 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.

**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 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.

**Keywords**

Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

**Classification codes**

Kindly provide PsycINFO codes. See the webpage:


**Acknowledgements**

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on 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. Many word processors 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.

Artwork
Electronic artwork
General points
• Make sure you use uniform lettering and sizing of your original artwork.
• Preferred fonts: Arial (or Helvetica), Times New Roman (or Times), Symbol, Courier.
• Number the illustrations according to their sequence in the text.
• Use a logical naming convention for your artwork files.
• Indicate per figure if it is a single, 1.5 or 2-column fitting image.
• For Word submissions only, you may still provide figures and their captions, and tables within a single file at the revision stage.
• Please note that individual figure files larger than 10 MB must be provided in separate source files.

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
Regardless of the application used, 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 the font or save the text as 'graphics'.
TIFF (or JPEG): Color or grayscale photographs (halftones): always use a minimum of 300 dpi.
TIFF (or JPEG): Bitmapped line drawings: use a minimum of 1000 dpi.
TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale): a minimum of 500 dpi is required.

Please do not:
• Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); the resolution is too low.
• 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. 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/acta-psychologica
When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

Reference formatting
There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the article number or pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct. If you do wish to format the references yourself they should be arranged according to the following examples:

Reference style
**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:

Reference to software:

**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.

**Data visualization**
Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

**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 a data article published in Data in Brief. A data article is a new kind of article that ensures that your data are actively reviewed, curated, formatted, indexed, given a DOI and made publicly available to all upon publication (watch this video describing the benefits of publishing your data in Data in Brief). You are encouraged to submit your data 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, published open access and linked to your research article on ScienceDirect. Please note an open access fee 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 article.

**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.

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