JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY

Journal of Cranio-Maxillofacial Surgery is the official publication of European Association for Cranio-Maxillofacial Surgery.

TABLE OF CONTENTS

- Description p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.5

DESCRIPTION

The new impact factor is **1.252**, an increase of 37%!

The *Journal of Cranio-Maxillofacial Surgery* publishes articles covering all aspects of surgery of the head, face and jaw. Specific topics covered recently have included:

- Distraction osteogenesis
- Synthetic bone substitutes
- Fibroblast growth factors
- Fetal wound healing
- Skull base surgery
- Computer-assisted surgery
- Vascularized bone grafts

You can now submit your paper online to the *Journal of Cranio-Maxillofacial Surgery* via the online submission and editorial system from Elsevier. Please visit [http://www.ees.elsevier.com/jcms/](http://www.ees.elsevier.com/jcms/)

**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

**IMPACT FACTOR**

2016: 1.583 © Clarivate Analytics Journal Citation Reports 2017
ABSTRACTING AND INDEXING

Cochrane Center  
Current Contents  
EMBASE/Excerpta Medica  
Index Medicus  
Journal Citation Reports - Science Edition  
Thomson Scientific SciSearch ®

EDITORIAL BOARD

Editor-in-Chief  
J. Wiltfang, Klinik für Mund, Kiefer-, und Gesichtschirurgie, Universitätsklinikum Schleswig-Holstein, Campus Kiel, Arnold-Hellerstr. 16, 24105, Kiel, Germany, Fax: +49 431 597 4084

Assistant Editors  
T. Barry  
A. Paterson  
P. Ramsay-Baggs

Section Editors  
L. Clauser, Ferrara, Italy  
Orbital and Periorbital Pathology and Surgery  
B. Devauchelle, Amiens, France  
Oncology and Reconstructive Surgery  
M. Mommaerts, Brugge, Belgium  
Orthognathic Surgery  
F.W. Neukam, Erlangen, Germany  
Implantology, Preprosthetic and Oral Surgery  
H.F. Sailer, Zurich, Switzerland  
Craniofacial Surgery including clefts of lip, alveolus and palate  
P. Slootweg, Nijmegen, Netherlands  
Pathology, Oncology and Mucocutaneous Disorders  
I.N. Springer, Kiel, Germany  
Aesthetic and Cosmetic Surgery  
P.J. Valejo Coelho, Paco de Arcos, Portugal  
Traumatology and Temporomandibular Joint Surgery  
P.A. Van Damme, Boxmeer, Netherlands  
Research, Development and New Horizons

Honorary Editorial Board  
K. Gundlach, Rostock, Germany

Editorial Board  
I. Akota, Riga, Latvia  
M. Baciut, Cluj-Napoca, Romania  
S. Bojarskas, Kaunas, Lithuania  
J. Bougout, Houston, Texas, USA  
J. Breme, Saarbruecken, Germany  
J.S. Brown, Liverpool, England, UK  
B. Evans, Southampton, UK  
R. Ewers, Vienna, Austria  
M Ferneini, MD, DMD, MHS, MBA/HCM, FACS, FACD, Waterbury, USA  
M. Galie, Ferrara, Italy  
W. Gnoinski, Zürich, Switzerland  
O. Guven, Ankara, Turkey  
M. Habal, Tampa, Florida, USA  
I. Iatrou, Athens, Greece  
C. Ioannides, Athens, Greece  
H. Kaercher, Graz, Austria  
H. Kamiishi, Shijonawate, Japan  
E. Leibur, Tartu, Estonia  
R. Nagler, Haifa, Israel  
S. Naumovski, Skopje, Macedonia
E. Nkenke, Erlangen, Germany
L. Olasz, Pécs, Hungary
R. Ord, Baltimore, Maryland, USA
J. Pazdera, Olimouc, Czech Republic
V. Petsinis, Athens, Greece
G. Raspall, bajo, Spain
S. Schendel, Stanford, California, USA
R. Schmelzeisen, Freiburg, Germany
A. Schramm, Ulm, Germany
P. Stanko, Bratislava, Slovakia
S. Stosic, Belgrade, Serbia
N. Theologie-Lygidakis, Athens, Greece
R. Tieghi, Ferrara, Italy
J. Toernwall, Helsinki, Finland
C. Tremolada, Milan, Italy
M. Virag, Zagreb, Croatia
H. Wanyura, Warsaw, Poland
J.L. Williams
M. M. Ferneini, MD, DMD, MHS, MBA/HCM, FACS, FACD, Ferneini, MD, DMD, MHS, MBA/HCM, FACS, FACD

EACMFS Membership of Council 2012-2012
President: Dr. D. Hrusak
Immediate Past President: Prof. M. Virag
Senior President Elect: Dr. I. Martin
President Elect: Prof. K.D. Wolff
Secretary General: Dr. H. Thuau
Assistant Secretary: Dr. N. Kalavrezos
Treasurer: Prof. J. Obwegeser
Editor-in-Chief: Prof. J. Wiltfang
Education and Training Officer: Prof. J. Acero
Medical Development Officer: Prof. H.-P. Howaldt
Executive Advisors: Prof. K.K.H. Gundlach & Prof. C. Navarro-Vila
Educational Trustees: Prof. U. Joos & Prof. C. Lindqvist

Councillors 2012-2014
Albania: Prof. R. Isufi
Armenia: Dr. G. Khachatryan
Austria: Dr. O. Ploder
Belarus: Prof. O. Chudakov
Belgium: Dr. J. Abeloos
Bosnia & Herzegovina: Dr. B. Bejтовic
Bulgaria: Dr. N. Yanev
Croatia: Dr. D. Leovic
Cyprus: Dr. G. Pantelas
Czech Republic: Dr. R. Foltan
Denmark: Dr. T. Folkmar
Estonia: Dr. M. Soots
Finland: Dr. P. Stoor
France: Dr. E. Sorrel Dejerine
Fyrom (Macedonia): Prof. D. Popovic Monevska
Germany: Prof. F. Holzie
Greece: Prof. I. Iatrou
Hungary: Dr. S. Bogdan
Israel: Dr. Z. Laster
Italy: Dr. N. Mannucci
Kosova: Prof. O. Sejfija
Latvia: Dr. G. Salms
Lithuania: Dr. M. Baseckas
Moldova: No Nomination
Montenegro: Prof. M. Knezevic
Netherlands: Dr. J. De Visscher
Norway: Prof. C. Ziegler
Poland: Prof. A. Kaminski
Portugal: Dr. J. Bilhoto
Romania: Prof. G. Baciut
Russia: Prof. S. Tarasenko
Serbia: Prof. S. Stosic
Slovakia: Prof. A. Jenca
Spain: Dr. R. Martin-Granizo
Sweden: Dr. C. Schaefer
Switzerland: Dr. C. Kunz
Trainee Representative: Dr. A. Gulati
Turkey: Prof. E. Yucel
Ukraine: Dr. V. Malanchuk
United Kingdom: Dr. P. Ramsay-Baggs
GUIDE FOR AUTHORS

Types of contribution
The following contributions will be considered for publication:
• Original articles
• Systematic Reviews
• Case reports of special interest
• Reports of new instruments or technical innovations
• Book reviews

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 pages on Ethics in publishing and Ethical guidelines for journal publication.

Human and animal rights
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; Uniform Requirements for manuscripts submitted to Biomedical journals. 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.
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 conflicts of interest 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.

Contributors
Each author is required to declare his or her individual contribution to the article: all authors must have materially participated in the research and/or article preparation, so roles for all authors should be described. The statement that all authors have approved the final article should be true and included in the disclosure.

Authorship
All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

Before a paper is accepted all authors of the paper must sign the Confirmation of Authorship form. This form confirms that all the named authors agree to publication if the paper is accepted and that each has had significant input. Please download the form and send it to the Editorial Office. (pdf version or word version) It is advisable that, to prevent delay, this form is submitted early in the editorial process.

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.

Reporting clinical trials
Randomized controlled trials should be presented according to the CONSORT guidelines. At manuscript submission, authors must provide the CONSORT checklist accompanied by a flow diagram that illustrates the progress of patients through the trial, including recruitment, enrollment, randomization, withdrawal and completion, and a detailed description of the randomization procedure. The CONSORT checklist and template flow diagram are available online.
Registration of clinical trials
Registration in a public trials registry is a condition for publication of clinical trials in this journal in accordance with International Committee of Medical Journal Editors recommendations. Trials must register at or before the onset of patient enrolment. The clinical trial registration number should be included at the end of the abstract of the article. A clinical trial is defined as any research study that prospectively assigns human participants or groups of humans to one or more health-related interventions to evaluate the effects of health outcomes. Health-related interventions include any intervention used to modify a biomedical or health-related outcome (for example drugs, surgical procedures, devices, behavioural treatments, dietary interventions, and process-of-care changes). Health outcomes include any biomedical or health-related measures obtained in patients or participants, including pharmacokinetic measures and adverse events. Purely observational studies (those in which the assignment of the medical intervention is not at the discretion of the investigator) will not require registration.

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

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

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

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

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

Elsevier supports responsible sharing
Find out how you can share your research published in Elsevier journals.

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

Funding body agreements and policies
Elsevier has established a number of agreements with funding bodies which allow authors to comply with their funder's open access policies. Some funding bodies will reimburse the author for the gold open access publication fee. Details of existing agreements are available online. After acceptance, open access papers will be published under a noncommercial license. For authors requiring a commercial CC BY license, you can apply after your manuscript is accepted for publication.

Open access
This journal offers authors a choice in publishing their research:

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

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

Regardless of how you choose to publish your article, the journal will apply the same peer review criteria and acceptance standards.

For gold open access articles, permitted third party (re)use is defined by the following Creative Commons user licenses:

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

The gold open access publication fee for this journal is **USD 3300**, excluding taxes. Learn more about Elsevier's pricing policy: https://www.elsevier.com/openaccesspricing.

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

This journal has an embargo period of 12 months.

**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 WebShop.

**Informed consent and patient details**
Studies on patients or volunteers require ethics committee approval and informed consent, which should be documented in the paper. Appropriate consents, permissions and releases must be obtained where an author wishes to include case details or other personal information or images of patients and any other individuals in an Elsevier publication. Written consents must be retained by the author and copies of the consents or evidence that such consents have been obtained must be provided to Elsevier on request. For more information, please review the Elsevier Policy on the Use of Images or Personal Information of Patients or other Individuals. Unless you have written permission from the patient (or, where applicable, the next of kin), the personal details of any patient included in any part of the article and in any supplementary materials (including all illustrations and videos) must be removed before submission.

**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 Evise here.

PREPARATION

Peer review
This journal operates a single 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.

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
Subdivision - unnumbered sections
Divide your article into clearly defined sections. Each subsection is given a brief heading. Each heading should appear on its own separate line. Subsections should be used as much as possible when cross-referencing text: refer to the subsection by heading as opposed to simply ‘the text’.

Papers should be set out as follows, with each section beginning on a separate page:
• Title page
• Summary and keywords
• Text
• Acknowledgements and conflict of interest statement
• List of references
• Tables
• Captions to illustrations.

Headings within the text should be appropriate to the nature of the paper. In general those for experimental papers should follow the usual conventions (Introduction, Material and Methods, Results, Discussion, Conclusion). Other papers can be subdivided as the author desires: the use of headings enhances readability. Normally only two categories of headings should be used: major ones should be typed in capital letters in the centre of the page and underlined; minor ones should be typed in lower case (with an initial capital letter) at the left hand margin and underlined.

Papers should be submitted in journal style. Failure to do so may lead to significant delays in publication. Spelling may follow British or American usage, but not a mixture of the two.

Do not use he, his etc where the sex of the person is unknown; say ‘the patient’, etc. Avoid inelegant alternatives such as he/she. Patients should not be automatically designated as she, and doctors as he.

Proprietary names of drugs, instruments, etc should be indicated by the use of initial capital letters and should include the town and country of their manufacture. Papers should be typed in double spacing with a margin of at least 3 cm all round.

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 lowercase superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

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

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

Please also include any sources of support in the form of grants.

**Summary**

This should consist of not more than 200 words and summarize the contents of the article.

**Keywords**

Immediately after the summary, 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. Terms from the medical subject headings (MeSH) list of Index Medicus should be used (see [http://www.nih.nlm.gov](http://www.nih.nlm.gov)).

**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.

**Units**

Follow internationally accepted rules and conventions: use the international system of units (SI). If other units are mentioned, please give their equivalent in SI.

Temperatures should be given in degrees Celsius and blood pressure in mmHg. Define abbreviations that are not standard in the field at their first occurrence in the article, in the abstract but also in the main text after it. Ensure consistency of abbreviations throughout the text.
Footnotes
Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors can build footnotes into the text, and this feature may be used. Otherwise, please indicate the position of footnotes in the text and list the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

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

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

Formats
If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.
Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):
EPS (or PDF): Vector drawings, embed all used fonts.
TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.
TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

Please do not:
• Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
• Supply files that are too low in resolution;
• Submit graphics that are disproportionately large for the content.

Photographs and radiographs should be submitted as clear, lightly contrasting black and white images. Photomicrographs should have a magnification and details of staining techniques shown. The final size of photographs will be: (a) single column width (80 mm), (b) double column width (167 mm), (c) somewhere between these sizes and centred on the page. Photographs should ideally be submitted at the final reproduction size based on the above figures. Where illustrations include recognisable individuals, living or dead, great care must be taken to ensure that consent for publication has been given. In cases where consent has not been obtained and recognisable features may appear, it will be necessary to mask the eyes or otherwise render the individual officially unrecognisable.

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.

Illustration services
Elsevier's WebShop offers Illustration Services to authors preparing to submit a manuscript but concerned about the quality of the images accompanying their article. Elsevier's expert illustrators can produce scientific, technical and medical-style images, as well as a full range of charts, tables and graphs. Image 'polishing' is also available, where our illustrators take your image(s) and improve them to a professional standard. Please visit the website to find out more.
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.

Reference links
Increased discoverability of research and high quality peer review are ensured by online links to the sources cited. In order to allow us to create links to abstracting and indexing services, such as Scopus, CrossRef and PubMed, please ensure that data provided in the references are correct. Please note that incorrect surnames, journal/book titles, publication year and pagination may prevent link creation. When copying references, please be careful as they may already contain errors. Use of the DOI is encouraged.

A DOI can be used to cite and link to electronic articles where an article is in-press and full citation details are not yet known, but the article is available online. A DOI is guaranteed never to change, so you can use it as a permanent link to any electronic article. An example of a citation using DOI for an article not yet in an issue is: VanDecar J.C., Russo R.M., James D.E., Ambeh W.B., Franke M. (2003). Aseismic continuation of the Lesser Antilles slab beneath northeastern Venezuela. Journal of Geophysical Research, https://doi.org/10.1029/2001JB000884. Please note the format of such citations should be in the same style as all other references in the paper.

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.

Reference style
The accuracy of references is the responsibility of the author. The journal follows the `author-date system of citation. Give the author s name (in italics), followed by the year of the publication, e.g. (Gundlach, 2006). If two authors, name both (e.g. Muller and Schulze, 1960); if more than two authors, give the name of the first author followed by `et al. (Shaw et al., 2001) If the same author(s) is referred to in text with more than one publication in same year, a lower case letter should be added to the year (e.g. Meier 1970a, 1970b.). The same letter must be added to the year in the corresponding entry in the reference list. When several publications are cited one after the other, begin with the oldest and end with the most recent (not in alphabetical order).
List all references alphabetically at the end of the paper, on a separate page. All authors or groups of authors cited in the article must appear in the list of references and vice versa. For each reference, list all authors, full title of paper, journal name (abbreviated according to Index Medicus, see http://www.nih.nlm.gov), volume, first and last page numbers, year of publication. For example:


When citing a book chapter, give the author(s), title, editor, title of book, place of publication, publisher, first and last page numbers, year of publication. For example:


**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.

**AudioSlides**

The journal encourages authors to create an AudioSlides presentation with their published article. AudioSlides are brief, webinar-style presentations that are shown next to the online article on ScienceDirect. This gives authors the opportunity to summarize their research in their own words and to help readers understand what the paper is about. More information and examples are available. Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

**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. Before submitting your article, you can deposit the relevant datasets to Mendeley Data. Please include the DOI of the deposited dataset(s) in your main manuscript file. 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 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.

**Special subject repositories**

Elsevier has established agreements and developed policies to allow authors who publish in Elsevier journals to comply with manuscript archiving requirements of the following funding bodies, as specified as conditions of researcher grant awards (please see [http://www.elsevier.com/about/open-science/open-access/agreements](http://www.elsevier.com/about/open-science/open-access/agreements) for full details of the agreements that are in place for these bodies):

- Arthritis Research Campaign (UK)
- British Heart Foundation (UK)
- Cancer Research UK
- Howard Hughes Medical Institute (US)
- Medical Research Council (UK)
- National Institutes of Health (US)
- Wellcome Trust (UK)

These agreements and policies enable authors to comply with their funding body's archiving policy without having to violate their publishing agreements with Elsevier. The agreements and policies are intended to support the needs of Elsevier authors, editors, and publishing partners, and protect the quality and integrity of the peer review process. They are examples of Elsevier's ongoing engagement with scientific and academic communities to explore ways to deliver demonstrable and sustainable benefits for the research communities we serve.

Authors who report research by funding bodies not listed above, and who are concerned that their author agreement may be incompatible with archiving requirements specified by a funding body that supports an author's research are strongly encouraged to visit our Support Center. Elsevier has a track-record of working on behalf of our authors to ensure authors can always publish in Elsevier journals and still comply with archiving conditions defined in research grant awards.
**Proofs**

One set of page proofs (as PDF files) will be sent by e-mail to the corresponding author (if we do not have an e-mail address then paper proofs will be sent by post) or, a link will be provided in the e-mail so that authors can download the files themselves. Elsevier now provides authors with PDF proofs which can be annotated; for this you will need to download the free Adobe Reader, version 9 (or higher). Instructions on how to annotate PDF files will accompany the proofs (also given online). The exact system requirements are given at the Adobe site.

If you do not wish to use the PDF annotations function, you may list the corrections (including replies to the Query Form) and return them to Elsevier in an e-mail. Please list your corrections quoting line number. If, for any reason, this is not possible, then mark the corrections and any other comments (including replies to the Query Form) on a printout of your proof and scan the pages and return via e-mail. 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. We will do everything possible to get your article published quickly and accurately. 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 25 free paper offprints, or alternatively a customized Share Link providing 50 days free access to the final published version of the article on ScienceDirect. The Share Link can be used for sharing the article via any communication channel, including email and social media. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier's Webshop. Corresponding authors who have published their article gold open access do not receive a Share Link as their final published version of the article is available open access on ScienceDirect and can be shared through the article DOI link.

**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.