COMBUSTION AND FLAME
The official journal of the Combustion Institute

TABLE OF CONTENTS

- Description p.1
- Audience p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

DESCRIPTION

The mission of the journal is to publish high quality work from experimental, theoretical, and computational investigations on the fundamentals of combustion phenomena and closely allied matters. While submissions in all pertinent areas are welcomed, past and recent focus of the journal has been on:

**Development and validation of reaction kinetics, reduction of reaction mechanisms and modeling of combustion systems, including:** Conventional, alternative and surrogate fuels; Pollutants; Particulate and aerosol formation and abatement; Heterogeneous processes.

**Experimental, theoretical, and computational studies of laminar and turbulent combustion phenomena, including:** Premixed and non-premixed flames; Ignition and extinction phenomena; Flame propagation; Flame structure; Instabilities and swirl; Flame spread; Multi-phase reactants.

**Advances in diagnostic and computational methods in combustion, including:** Measurement and simulation of scalar and vector properties; Novel techniques; State-of-the art applications.

**Fundamental investigations of combustion technologies and systems, including:** Internal combustion engines; Gas turbines; Small- and large-scale stationary combustion and power generation; Catalytic combustion; Combustion synthesis; Combustion under extreme conditions; New concepts.

**Note:** Manuscripts on combustion technologies and systems need to include research approaches and results that address fundamental combustion problems of relevance to a specific application. Manuscripts of clearly applied nature that include device-specific results will be rejected without review.

AUDIENCE

Mechanical and chemical engineers and Researchers in the field of combustion.

IMPACT FACTOR

2018: 4.120 © Clarivate Analytics Journal Citation Reports 2019
ABSTRACTING AND INDEXING

Current Contents
EI Compendex Plus
EI Engineering
APILIT
Cambridge Scientific Abstracts
INSPEC
Embase
Fuel and Energy Abstracts
Energy Science and Technology
Abstracts in New Technology and Engineering
Aerospace Database
Environmental Periodicals Bibliography
FLUIDEX
Pascal Francis
Web of Science
Scopus
GeoRef
Chemical Abstracts
Academic Search (EBSCO)
Chimica
Compendex
Engineering Information Database EnCompass LIT (Elsevier)
OCLC Contents Alert
Science Citation Index
Web of Science
Referativnyi Zhurnal VINTI-RAN (Russian Academy of Sciences)

EDITORIAL BOARD

Editors
Fokion Egolfopoulos, University of Southern California, Los Angeles, California, United States
Thierry Poinsot, Institute of Fluid Mechanics Toulouse, Toulouse, France

Associate Editors
Tiziano Faravelli, University of Pisa Department of Chemistry and Industrial Chemistry, Pisa, Italy
Peter Glarborg, Technical University of Denmark Department of Chemical and Biochemical Engineering, Kgs Lyngby, Denmark
Daniel C. Haworth, Pennsylvania State University, University Park, Pennsylvania, United States
Epaminondas Mastorakos, University of Cambridge, Cambridge, United Kingdom
Akira Umemura, Nagoya University, Nagoya, Japan
Judit Zádor, Sandia National Laboratories, Albuquerque, New Mexico, United States

Editorial Board: Term Ending 2020
Yei-Chin Chao, National Cheng Kung University, Tainan, Taiwan
Gabriel Ciccarelli, Queen's University, Kingston, Ontario, Canada
Mário Costa, University of Lisbon Higher Technical Institute, Universidade de Lisboa, Lisboa, Portugal
Tianfeng Lu, University of Connecticut, Storrs, Connecticut, United States
Bruno Renou, University of Applied Sciences Rouen Energetics and Propulsion Department, St Etienne du Rouvray, France
Murray J. Thomson, University of Toronto, Toronto, Ontario, Canada

Editorial Board: Term Ending 2022
Jeffrey M. Berghorson, McGill University, Montréal, Canada
Zheng Chen, Peking University, Beijing, PR China
Terese Lovás, Norwegian University of Science and Technology, Trondheim, Norway
Wolfgang Polifke, Technical University of Munich, Munich, Germany
S. Mani Sarathy, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
Adam Steinberg, Georgia Institute of Technology, Atlanta, Georgia, USA

Editorial Board: Term Ending 2024
Maria U. Alzueta, University of Zaragoza, Zaragoza, Spain
Benedicte Cuenot, CERFACS, Toulouse, France
Tina Kasper, University of Duisburg-Essen, Duisburg, Germany
Joseph Lefkowitz, Technion Israel Institute of Technology, Haifa, Israel
Jeffrey Sutton, OHIO STATE UNIVERSITY, Columbus, United States
Hirotatsu Watanabe, Tokyo Institute of Technology, Tokyo, Japan
GUIDE FOR AUTHORS

Page charges
This journal has no page charges.

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.

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 should complete the declaration of interest statement using this template and upload to the submission system at the Attach/Upload Files step. If there are no interests to declare, please choose: 'Declarations of interest: none' in the template. This statement will be published within the article if accepted. More information.

CrossCheck (iThenticate)
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, all submitted articles are checked automatically upon submission by the iThenticate software. If an earlier version of the work has been submitted to a conference, there are two topics that require attention. First, transferring copyright to the society organizing
the conference automatically disqualifies a manuscript from further consideration. Additionally, conference manuscripts with a DOI number assigned to them will be identified by iThenticate. In those cases, the authors must disclose in the cover letter or a separate document the major differences between the two manuscripts. If such disclosure is not made, the editors will use the similarity index as the basis to either disqualify a manuscript from further consideration or to request a disclosure from the authors.

**Use of inclusive language**

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

**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.

**Changes to authorship**

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

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

**Copyright**

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

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

**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.

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.

PREPARATION
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 - 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.

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. 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.
- Corresponding author. Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. 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.

Indicate the type of article (full-length, Brief Communication, etc.). If the title is long, a shortened running title having no more than 45 characters and spaces should be provided.

Abstract
A concise and factual abstract is required with full-length articles. It should consist of one paragraph of 100-300 words. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.
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.

Keywords should not be submitted for Brief Communications.

Abbreviations
Abbreviations of chemical compounds or all acronyms should be written in full at their first mention with the abbreviation in parentheses. References that correspond to "for example" should include a comma after e.g.: (e.g., [25-28])

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.

Nomenclature and units
If symbols are used extensively, a nomenclature list arranged alphabetically, with subscript and superscript symbols listed separately, should be provided. Otherwise all symbols should be identified when first used in the text. Authors are expected to use the SI system of units.

Math formulae
Present simple formulae in the line of normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Use fraction exponents instead of root signs. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).): Numbers identifying such equations should be enclosed in parentheses and should be numbered consecutively beginning with "1" in the text. Refer to equations in the text as "Eq. (1)," etc., or "Equation (1)," etc., at the beginning of a sentence.

Footnotes
Footnotes should be used only when absolutely essential. Number them consecutively throughout the article, using superscript Arabic numbers. 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. Do not include footnotes in the Reference list.

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

Line Numbers
Authors are requested not to add line numbering to their article as this will be done automatically by the system when their submission is built.

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.
• Ensure that color images are accessible to all, including those with impaired color vision.

A detailed guide on electronic artwork is available.

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

Formats

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

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

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

Please do not:

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

Refer to figures in the text as "Fig. 1," etc., or "Figure 1," etc., at the beginning of a sentence. The preferred formats for figures are TIFF or EPS files.

All figures will be reduced to single-column width (approx. 88 mm), unless authorized by the editor to be larger. Lettering and data points should be large enough to be legible after the figure has been reduced to a width of 88 mm. Figures not meeting these requirements will be returned to the author(s) for revision, which may delay the publication of the article.

Color artwork

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

Figure captions

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

Text graphics

Text graphics may be embedded in the text at the appropriate position. If you are working with LaTeX and have such features embedded in the text, these can be left. See further under Electronic artwork.
Tables
Please submit tables as editable text and not as images. 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.

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.

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.

Reference style
References should be indicated in the text by full-size numbers in brackets, e.g., [1], and should be numbered in the order cited. The actual authors can be referred to, but the reference number(s) must always be given. The numbered reference list at the end of the article should conform to the following style:

Journal article:

Journal article in press:

Book:

Reference to a chapter in an Edited Book:

Symposium Proceedings:
All symposium papers associated with the International Symposium on Combustion published before 2000 should be cited in the following way:
All symposium papers associated with the International Symposium on Combustion published in 2000 or later should be cited in the following way:


Conference Proceedings
A conference proceedings should be styled as a book, with publisher or institution sponsoring publication and the year published as well as the year the conference was held. Authors must ensure that these references are publicly available. Example:


Internal Reports:

Journal abbreviations sources:
Journal names should be abbreviated according to the List of Title Word Abbreviations link:
http://www.issn.org/services/online-services/access-to-the-ltwa/
or alternatively the Journal Titles and Abbreviations link:
http://www.pg.gda.pl/chem/Dydaktyka/Analityczna/MISC/Journal_Titles_and_%20Abbreviations.htm

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.

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
Elsevier accepts electronic supplementary material to support and enhance your scientific research. Supplementary files offer the author two additional possibilities. First, to publish videos of experiments and/or animations of numerical simulations that are essential part of the manuscript and which the reviewers will evaluate. Second, to publish supporting information, high-resolution images, background datasets, sound clips, and more. Supplementary files supplied will be published online alongside the electronic version of your article in Elsevier Web products, including ScienceDirect: http://www.sciencedirect.com. In order to ensure that your submitted material is directly usable, please provide the data in one of our recommended file formats. Authors should submit the
material in electronic format together with the article and supply a concise and descriptive caption for each file. For more detailed instructions please visit our artwork instruction pages at https://www.elsevier.com/artworkinstructions.

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).

Submission of Manuscripts
Editors:
Manuscripts are to be submitted via the online submission site accessed via https://www.editorialmanager.com/cnf. All manuscripts originating in the Americas, Australia and Oceania, France, Germany, Russia, Middle East (except Iran), and all of Asia (except China) should be sent to Professor Fokion N. Egolfopoulos, while those originating elsewhere from Europe (except France and Germany), Africa, China, and Iran should be sent to Dr. Thierry Poinsot.

Manuscript structure and format:
Manuscripts are to be uploaded using a self-prepared pdf file, which will be used for the reviewing process. The pdf file should include all text, figures, and tables. The figures and tables need to be embedded into the text during the original and revised manuscript submissions to facilitate the review process. If a manuscript is accepted, it will be necessary to send the original source files in which the figures need to be removed from the text and either appear at the end of the manuscript or be submitted individually with the appropriate figure number and caption attached to them. Authors, Reviewers, and Editors will send and receive all correspondence by email and no paper correspondence is necessary. If the manuscript cites any article that is "in press" or is "submitted for publication", then that cited article should be sent as an additional pdf file (as "additional material").

Please note:
If you upload any additional files, please include at the beginning of each file a title page that gives a short description of the content. This facilitates distinguishing between your manuscript and the additional material.

Types of contributions and length:
The following categories of submissions will be considered for publication:
• Full-Length Articles containing original research contributions. Given that in most cases conciseness improves the quality and impact of published articles, a typical manuscript under that category is expected not to exceed 10,000 words including tables and figures, each equivalent to 200 words in its standard forms. The authors are encouraged to use the supplementary material option as much as possible by uploading material of relevance, which however is not critical in evaluating the content of the paper that needs to be a stand-alone entity. In the case of computational studies, the authors may want to consider uploading videos as supplementary material, which is a dynamic and thus more revealing representation of the results compared say to static multi-panel figures. If a longer than 10,000 words full-length article needs to be submitted, the authors must provide justification to the editors that the length of the paper is adequate and essential for its contents.
• Brief Communication Articles containing original research contributions, which do not exceed 1500 words.
• Comment, Reply, Erratum, or Corrigendum Articles, which do not exceed 1500 words.
• Review Articles by invitation only. The content and length will be determined upon consultation with the editors.
• Opinion or Position Articles by invitation only. The content and length will be determined upon consultation with the editors.

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.