



# ENVIRONMENTAL POLLUTION

## AUTHOR INFORMATION PACK

### TABLE OF CONTENTS

---

●	<b>Description</b>	<b>p.1</b>
●	<b>Audience</b>	<b>p.1</b>
●	<b>Impact Factor</b>	<b>p.1</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.4</b>



ISSN: 0269-7491

### DESCRIPTION

---

*Environmental Pollution* is an international journal that seeks to publish papers that report results from original, novel research that addresses significant environmental pollution issues and problems and contribute new knowledge to science.

The editors welcome high quality papers where the pollutants are clearly defined and measured and can be directly related to biological, ecological, and human health effects. This includes air, water, and soil pollution and climate change. New techniques for the study and measurement of pollutants are also encouraged. Papers, such as meta analyses, that report findings from re-examination and interpretation of existing data are welcome. Modeling papers are also welcome. Critical review papers are also of interest as are letters to the editor.

The editors do not wish to publish papers that describe results from routine surveys and monitoring programs that are primarily of local interest. Descriptions of well-known pollutants, such as legacy pollutants, in yet another location are not of interest. Papers about sewage, waste and wastewater treatment and management, agronomy, remediation, biomonitoring, bioremediation and phytoremediation are not acceptable.

The editors welcome the following contributions: Full research papers: Results from completed investigations Review papers: In-depth critical reviews of special subjects Commentaries: Opinions and concerns about current scientific issues, invited or unsolicited Letters to the Editor: short focused letters to raise issues or concerns about papers published in the journal and solicit a reply from the authors of those papers

### AUDIENCE

---

Pollution research workers including chemists, toxicologists, environmentalists, conservationists, botanists, marine scientists, ecologists, biologists.

### IMPACT FACTOR

---

2013: 3.902 © Thomson Reuters Journal Citation Reports 2014

## ABSTRACTING AND INDEXING

---

AGRICOLA  
Air Pollution Control Association Journal  
Biological and Agricultural Index  
Current Contents/Agriculture, Biology & Environmental Sciences  
MEDLINE®  
EMBASE  
Energy Information Abstracts  
Environmental Periodicals Bibliography  
GeoSciTech  
SCISEARCH  
Science Citation Index  
Scopus

## EDITORIAL BOARD

---

### *Editor-in-Chief:*

**W. Manning**, University of Massachusetts, Amherst, Massachusetts, USA

### *Associate Editors:*

**J. Gan**, University of California at Riverside, Riverside, California, USA

**B. Nowack**, EMPA, St. Gallen, Switzerland

**E. Paoletti**, National Research Council of Italy (CNR), Firenze, Italy

**C. Wiegand**, University of Southern Denmark, Odense M, Denmark

### *Emeritus Editor:*

**J.P. Dempster**, The Limes, Hilton, Huntingdon, UK

### *Editorial Board:*

**R. Altenburger**, Umweltforschungszentrum (UFZ) Leipzig-Halle GmbH, Leipzig, Germany

**D. Amarasiwardena**, Hampshire College, Amherst, Massachusetts, USA

**W. Arnold**, University of Minnesota, Minneapolis, Minnesota, USA

**A.V. Barker**, University of Massachusetts, Amherst, Massachusetts, USA

**J.N.B. Bell**, Imperial College London, Kensington, London, UK

**T. Borch**, Colorado State University, Fort Collins, Colorado, USA

**B. Braune**, Carleton University, Ottawa, Ontario, Canada

**K. Breivik**, Norwegian Institute for Air Research, Kjeller, Norway

**A. Bytnerowicz**, U.S. Department of Agriculture (USDA), Forest Service, Riverside, California, USA

**A. Chappelka**, Auburn University, Auburn, Alabama, USA

**T.W. Custer**, U.S. Geological Survey (USGS), Lacrosse, Wisconsin, USA

**J. Fuhrer**, AGROSCOPE, Zurich, Switzerland

**J. Hao**, Tsinghua University, Beijing, China

**M. Hauck**, Georg-August Universität Göttingen, Göttingen, Germany

**B. Hitzfeld**, Federal Office for the Environment FOEN, Bern, Switzerland

**M. Hodson**, University of York, York, England, UK

**H. Kankaanpaa**, Finnish Institute of Marine Research, Helsinki, Finland

**R. Kookana**, CSIRO (The Commonwealth Scientific and Industrial Research Organization), Glen Osmond, Australian Capital Territory, Australia

**J. Lead**, University of Birmingham, Birmingham, England, UK

**A.H. Legge**, Biosphere Solutions, Calgary, Alberta, Canada

**R. Lohmann**, University of Rhode Island, Narragansett, Rhode Island, USA

**S. Loppi**, Università degli Studi di Siena, Siena, Italy

**M. Lydy**, Southern Illinois University, Carbondale, Illinois, USA

**B. Markert**

**W. Peijnenburg**, Rijksinstituut voor Volksgezondheid en Milieu (RIVM), Bilthoven, Netherlands

**S. Pirintsos**, University of Crete, Iraklion, Crete, Greece

**M. Puschenreiter**, Universität für Bodenkultur Wien (BOKU), Vienna, Austria

**B. Reid**, University of East Anglia, Norwich, England, UK

**D. Sarkar**, Montclair State University, Montclair, New Jersey, USA

**K. Schirmer**, Swiss Federal Institute of Aquatic Science & Technology (EAWAG), Dübendorf, Switzerland

**H. Segner**, Universität Bern, Bern, Switzerland

**W. Shin-Ichiro**, Kyushu University, Fukuoka, Japan

**R.F. Shore**, Centre for Ecology and Hydrology (CEH), Abbots Ripton, Huntingdon, UK

**P.N. Smith**, Texas Tech University, Lubbock, Texas, USA  
**F.M. Tack**, Universiteit Gent, Gent, Belgium  
**S. Tao**, Peking University, Beijing, China  
**E. Tipping**, Centre for Ecology and Hydrology (CEH), Bailrigg, Lancaster, UK  
**C.A.M. van Gestel**, Vrije Universiteit Amsterdam, Amsterdam, Netherlands  
**D. Vetterlein**, Umweltforschungszentrum (UFZ) Leipzig-Halle GmbH, Halle/Saale, Germany  
**P. Vikesland**, Virginia Polytechnic Institute & State University, Blacksburg, Virginia, USA  
**W-X. Wang**, Hong Kong University of Science & Technology, Kowloon, Hong Kong  
**Z. Wang**, Ocean University of China, Qingdao, China  
**J.C. White**, Connecticut Agricultural Experimental Station, New Haven, Connecticut, USA  
**P.N. Williams**, Chinese Academy of Sciences (CAS), Beijing, China  
**H.Th. Wolterbeek**, Delft University of Technology, Delft, Netherlands  
**D.A. Wunderlin**, Universidad Nacional de Cordoba (Argentina), Cordoba, Argentina  
**B. Xing**, University of Massachusetts, Amherst, Massachusetts, USA  
**S.D. Young**, Nottingham, Nottingham, UK  
**S. Zhang**, Chinese Academy of Sciences (CAS), Beijing, China  
**F. Zhao**, IACR-Rothamsted Experimental Station, Harpenden, UK

## GUIDE FOR AUTHORS

---

### *Your Paper Your Way*

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

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

#### *Introduction*

*Environmental Pollution* is an international journal that seeks to publish papers that report results from original, novel research that addresses significant environmental pollution issues and problems and contribute new knowledge to science.

The editors welcome high quality papers where the pollutants are clearly defined and measured and can be directly related to biological, ecological, and human health effects. This includes air, water, and soil pollution and climate change. New techniques for the study and measurement of pollutants are also encouraged. Papers, such as meta analyses, that report findings from re-examination and interpretation of existing data are welcome. Modeling papers are also welcome. Critical review papers are also of interest as are letters to the editor.

The editors do not wish to publish papers that describe results from routine surveys and monitoring programs that are primarily of local interest. Descriptions of well-known pollutants, such as legacy pollutants, in yet another location are not of interest. Papers about sewage, waste and wastewater treatment and management, agronomy, remediation, biomonitoring, bioremediation and phytoremediation are not acceptable.

The editors welcome the following contributions: Full research papers: Results from completed investigations Review papers: In-depth critical reviews of special subjects Commentaries: Opinions and concerns about current scientific issues, invited or unsolicited Letters to the Editor: short focused letters to raise issues or concerns about papers published in the journal and solicit a reply from the authors of those papers

#### *Types of paper*

- *Full Research Papers:* Full Research Papers should not exceed 5000 words (including abstract but excluding references). If this is not possible, please contact the Editor in Chief. To facilitate the review process line numbers should be inserted into the text of the manuscript.

- *Short Communications:* These follow the same format as full papers, except that Results and Discussion sections should be combined. Manuscripts should not exceed 2000 words.

- *Rapid Communications:* These are Short Communication papers that are submitted for consideration for publication on an accelerated schedule. These papers report highly significant new findings and indicate new directions for research. Authors should fax or E-mail the abstract of their manuscript to the Editor-in-Chief, or appropriate Associate Editor before submitting a Rapid Communication manuscript.

- *Special Issues:* Proposals for Special Issues of Full Research Papers that focus on a specific topic or theme will also be considered.

- *New Initiatives:* Intended as very brief reports of significant new findings indicating new directions in research. Manuscripts should be no more than 6-8 double spaced manuscript pages, including no more than 10 references and 1-3 short tables and/or small figures. An abstract is not required. Include a very brief Introduction, Materials and Methods, and Discussion of Results, including speculation about their meaning and implications. Please submit the name and complete mailing address (including e-mail address) of one appropriate referee who has agreed to review the manuscript. Authors should contact the Editor-in-Chief, or appropriate Associate Editor by e-mail before submitting a New Initiatives manuscript.

•*Review Papers*: Authors may submit manuscripts that provide in-depth critical review of a special subject. These reviews must provide a Synthesis and Critical Evaluation of the state of the knowledge of the subject and indicate research directions. The Editors also periodically invite review articles.

•*Commentary*: Commentary papers may be submitted that express opinions and concerns, suggest research priorities and question conventional methodologies and conclusions. Manuscripts should include an Abstract, Introduction, Presentation of the Concerns or Analysis and Conclusions. References, Tables and Illustrations should be used sparingly. The manuscript should not exceed 12 double-spaced pages. The Editors will evaluate all manuscripts, for suitability of publication.

•*Letters to Editor*: Readers are encouraged to write to any of the Editors and raise issues and concerns about papers published in the journal. Editors or authors will reply to letters.

Please note that the word count does not include figures, tables or the reference list

## **BEFORE YOU BEGIN**

### **Ethics in publishing**

For information on Ethics in publishing and Ethical guidelines for journal publication see <http://www.elsevier.com/publishingethics> and <http://www.elsevier.com/journal-authors/ethics>.

### **Conflict of interest**

All authors are requested to disclose any actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations within three years of beginning the submitted work that could inappropriately influence, or be perceived to influence, their work. See also <http://www.elsevier.com/conflictsofinterest>. Further information and an example of a Conflict of Interest form can be found at: [http://help.elsevier.com/app/answers/detail/a\\_id/286/p/7923](http://help.elsevier.com/app/answers/detail/a_id/286/p/7923).

### **Submission declaration**

Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis or as an electronic preprint, see <http://www.elsevier.com/postingpolicy>), 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 including electronically in the same form, in English or in any other language, without the written consent of the copyright-holder.

### **Changes to authorship**

This policy concerns the addition, deletion, or rearrangement of author names in the authorship of accepted manuscripts:

*Before the accepted manuscript is published in an online issue*: Requests to add or remove an author, or to rearrange the author names, must be sent to the Journal Manager from the corresponding author of the accepted manuscript and must include: (a) the reason the name should be added or removed, or the author names rearranged and (b) written confirmation (e-mail, fax, 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. Requests that are not sent by the corresponding author will be forwarded by the Journal Manager to the corresponding author, who must follow the procedure as described above. Note that: (1) Journal Managers will inform the Journal Editors of any such requests and (2) publication of the accepted manuscript in an online issue is suspended until authorship has been agreed.

*After the accepted manuscript is published in an online issue*: Any requests to add, delete, or rearrange author names in an article published in an online issue will follow the same policies as noted above and result in a corrigendum.

### **Article transfer service**

This journal is part of our Article Transfer Service. This means that if the Editor feels your article is more suitable in one of our other participating journals, then you may be asked to consider transferring the article to one of those. If you agree, your article will be transferred automatically on your behalf with no need to reformat. Please note that your article will be reviewed again by the new journal. More information about this can be found here: <http://www.elsevier.com/authors/article-transfer-service>.

### **Copyright**

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

### *For subscription articles*

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (for more information on this and copyright, see <http://www.elsevier.com/copyright>). 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 (please consult <http://www.elsevier.com/permissions>). 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: please consult <http://www.elsevier.com/permissions>.

### *For open access articles*

Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (for more information see <http://www.elsevier.com/OAauthoragreement>). Permitted reuse of open access articles is determined by the author's choice of user license (see <http://www.elsevier.com/openaccesslicenses>).

### **Retained author rights**

As an author you (or your employer or institution) retain certain rights. For more information on author rights for:

Subscription articles please see <http://www.elsevier.com/journal-authors/author-rights-and-responsibilities>.  
Open access articles please see <http://www.elsevier.com/OAauthoragreement>.

### **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 agreements and developed policies to allow authors whose articles appear in journals published by Elsevier, to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit <http://www.elsevier.com/fundingbodies>.

### **Open access**

This journal offers authors a choice in publishing their research:

#### **Open access**

- Articles are freely available to both subscribers and the wider public with permitted reuse
- An open access publication fee is payable by authors or their research funder

#### **Subscription**

- Articles are made available to subscribers as well as developing countries and patient groups through our access programs (<http://www.elsevier.com/access>)
- No open access publication fee

All articles published open access will be immediately and permanently free for everyone to read and download. Permitted reuse is defined by your choice of one of the following Creative Commons user licenses:

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



**Creative Commons Attribution-NonCommercial-ShareAlike (CC BY-NC-SA):** for non-commercial purposes, lets others distribute and copy the article, to create extracts, abstracts and other revised versions, adaptations or derivative works of or from an article (such as a translation), to include in a collective work (such as an anthology), to text and data mine the article, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, do not modify the article in such a way as to damage the author's honor or reputation, and license their new adaptations or creations under identical terms (CC BY-NC-SA).

**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.

To provide open access, this journal has a publication fee which needs to be met by the authors or their research funders for each article published open access.

Your publication choice will have no effect on the peer review process or acceptance of submitted articles.

The open access publication fee for this journal is **\$2500**, excluding taxes. Learn more about Elsevier's pricing policy: <http://www.elsevier.com/openaccesspricing>.

### **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 (<http://webshop.elsevier.com/languageediting/>) or visit our customer support site (<http://support.elsevier.com>) for more information.

### *Submission*

#### **Manuscript Submission**

The complete manuscript can be submitted via EES at <http://www.ees.elsevier.com/envpol> , following all instructions exactly.

Complete manuscripts received via EES will be further evaluated by an Editor. Authors are requested to chose an editor most appropriate to their research field during the submission process. This final evaluation will determine whether or not a manuscript will be sent out for review.

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 source files to a single PDF file of the article, which is used in the peer-review process. Please note that even though manuscript source files are converted to PDF files at submission for the review process, these source files are needed for further processing after acceptance. All correspondence, including notification of the Editor's decision and requests for revision, takes place by e-mail removing the need for a paper trail.

Please note that authors have a maximum of 6 weeks to resubmit a revised manuscript, unless an extension is requested from the editor.

The resubmission of previously rejected manuscripts is by invitation only.

### *Referees*

Please submit, with the manuscript, the names, addresses and e-mail addresses of five potential referees who are well-qualified to review the manuscript, if they are asked to review it. Reviewers are asked to evaluate the originality, significance and technical quality of the work, as well as the clarity of the manuscript, and the relevance of the subject matter to the journal. The final decision for publication of all manuscripts is made by the Editor-in-Chief.

### *Additional information*

US National Institutes of Health (NIH) voluntary posting (" Public Access") policy Elsevier facilitates author response to the NIH voluntary posting request (referred to as the NIH "Public Access Policy"; see <http://www.nih.gov/about/publicaccess/index.htm> ) by posting the peer-reviewed author's manuscript directly to PubMed Central on request from the author, 12 months after formal publication. Upon notification from Elsevier of acceptance, we will ask you to confirm via e-mail (by e-mailing us at [NIHauthorrequest@elsevier.com](mailto:NIHauthorrequest@elsevier.com)) that your work has received NIH funding and that you intend to respond to the NIH policy request, along with your NIH award number to facilitate processing. Upon such confirmation, Elsevier will submit to PubMed Central on your behalf a version of your manuscript

that will include peer-review comments, for posting 12 months after formal publication. This will ensure that you will have responded fully to the NIH request policy. There will be no need for you to post your manuscript directly with PubMed Central, and any such posting is prohibited.

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: contact ES Global Rights Department, P.O. Box 800, Oxford, OX5 1DX, UK; phone: (+44) 1865 843830, fax: (+44) 1865 853333, Elsevier's Rights Department, Oxford, UK: phone (+44) 1865 843830, fax (+44) 1865 853333, e-mail [permissions@elsevier.com](mailto:permissions@elsevier.com) . Requests may also be completed on-line via the Elsevier homepage (<http://www.elsevier.com/locate/permissions> ).

## **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 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.

Please ensure your paper has consecutive line numbering - this is an essential peer review requirement.

#### *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.

### **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: <http://www.elsevier.com/guidepublication>). 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.

#### *Cover Letter*

A cover letter must be sent with the manuscript and must include:

- The novelty, scientific significance and importance of the manuscript.
- The names and valid, current e-mail addresses for five (5) potential reviewers who are well-qualified to review the manuscript if they are asked to review it. Potential reviewers should be from the international scientific community and not from one country or region.



- The name and e-mail address of the corresponding author.

## **Article structure**

### *Subdivision - unnumbered heads*

Full Research Papers should not exceed 5000 words (including abstract but excluding references). If this is not possible, please contact the Editor in Chief.

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".

### *Introduction*

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

### *Material and methods*

Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference: only relevant modifications should be described.

### *Results*

Results should be clear and concise.

### *Discussion*

This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

### *Conclusions*

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

### *Essential title page information*

*Full Research Papers:* Provide the following data on the title page (in the order given).

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- **Author names and affiliations.** Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name, and, if available, the e-mail address of each author.
- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. **Ensure that telephone and fax numbers (with country and area code) are provided in addition to the e-mail address and the complete postal address.**
- **Present/permanent address.** If an author has moved since the work described in the article was done, or was visiting at the time, a "Present address" (or "Permanent address") may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

### *Abstract*

A concise and factual abstract is required. (*maximum length 100-150 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.

*Capsule:* In addition to the abstract for the manuscript, authors are required to submit a one- sentence statement that describes the significance of their work to the rest of the scientific community. When necessary, the capsule may be edited before publication.

## 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. See <http://www.elsevier.com/graphicalabstracts> for examples.

Authors can make use of Elsevier's Illustration and Enhancement service to ensure the best presentation of their images and in accordance with all technical requirements: [Illustration Service](#).

## Highlights

Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). See <http://www.elsevier.com/highlights> for examples.

## Keywords

*Keywords:* Immediately after the abstract, provide a maximum of 5 keywords, 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. Note that these keywords will be used for indexing purposes.

## 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.).

## Units

*Units and symbols:* The SI system should be used for all scientific and laboratory data: if in certain instance, it is necessary to quote other units, these should be added in parentheses. Temperatures should be given in degrees Celsius.

## 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.

## 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 on our website:

<http://www.elsevier.com/artworkinstructions>.

**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 JPG): Color or grayscale photographs (halftones): always use a minimum of 300 dpi.

TIFF (or JPG): Bitmapped line drawings: use a minimum of 1000 dpi.

TIFF (or JPG): 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. For further information on the preparation of electronic artwork, please see <http://www.elsevier.com/artworkinstructions>.

Please note: Because of technical complications that can arise by converting color figures to 'gray scale' (for the printed version should you not opt for color in print) please submit in addition usable black and white versions of all the color illustrations.

*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.

*References*

Responsibility for the accuracy of bibliographic citations lies entirely with the authors.

*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.

*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*

This journal has standard templates available in key reference management packages EndNote (<http://www.endnote.com/support/enstyles.asp>) and Reference Manager (<http://refman.com/support/rmstyles.asp>). Using plug-ins to wordprocessing packages, authors only need to select the appropriate journal template when preparing their article and the list of references and citations to these will be formatted according to the journal style which is described below.

### 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 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

#### Name and year style in the text

*Text:* All citations in the text should refer to:

1. *Single author:* the author's name (without initials, unless there is ambiguity) and the year of publication;
2. *Two authors:* both authors' names and the year of publication;
3. *Three or more authors:* first author's name followed by 'et al.' and the year of publication. Citations may be made directly (or parenthetically). Groups of references should be listed first alphabetically, then chronologically.

Examples: "as demonstrated (Allan, 1996a, 1996b, 1999; Allan and Jones, 1995). Kramer et al. (2000) have recently shown ..."

*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. Note that any (consistent) reference style and format may be used: the Publisher will ensure that the correct style for this journal will be introduced for the proof stages, the final print version and the PDF files for electronic distribution.

### Examples:

Reference to a journal publication:

Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2000. The art of writing a scientific article. *Journal of Scientific Communications* 163, 51-59.

Reference to a book:

Strunk Jr., W., White, E.B., 1979. *The Elements of Style*, third ed. Macmillan, New York. Reference to a chapter in an edited book:

Mettam, G.R., Adams, L.B., 1999. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281-304.

### Video data

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 files in one of our recommended file formats with a preferred maximum size of 50 MB. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including ScienceDirect: <http://www.sciencedirect.com>. 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 at <http://www.elsevier.com/artworkinstructions>. 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 at <http://www.elsevier.com/audioslides>. Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

### Supplementary data

Elsevier accepts electronic supplementary material to support and enhance your scientific research. Supplementary files offer the author additional possibilities to publish supporting applications, 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 <http://www.elsevier.com/artworkinstructions>.

### Data at PANGAEA

Electronic archiving of supplementary data enables readers to replicate, verify and build upon the conclusions published in your paper. We recommend that data should be deposited in the data library PANGAEA (<http://www.pangaea.de>). Data are quality controlled and archived by an editor in standard machine-readable formats and are available via Open Access. After processing, the author receives an identifier (DOI) linking to the supplements for checking. As your data sets will be citable you might want to refer to them in your article. In any case, data supplements and the article will be automatically linked as in the following example: [doi:10.1016/0016-7037\(95\)00105-9](https://doi.org/10.1016/0016-7037(95)00105-9). Please use PANGAEA's web interface to submit your data (<http://www.pangaea.de/submit/>).

### Interactive plots

This journal encourages you to include data and quantitative results as interactive plots with your publication. To make use of this feature, please include your data as a CSV (comma-separated values) file when you submit your manuscript. Please refer to <http://www.elsevier.com/interactiveplots> for further details and formatting instructions.

### Submission checklist

The following list will be useful during the final checking of an article prior to sending it to the journal for review. Please consult this Guide for Authors for further details of any item.

#### 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
- Telephone

All necessary files have been uploaded, and contain:

- Keywords
- All figure captions
- All tables (including title, description, footnotes)

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)

Printed version of figures (if applicable) in color or black-and-white

- Indicate clearly whether or not color or black-and-white in print is required.
- For reproduction in black-and-white, please supply black-and-white versions of the figures for printing purposes.

For any further information please visit our customer support site at <http://support.elsevier.com>.

## AFTER ACCEPTANCE

### Use of the Digital Object Identifier

The Digital Object Identifier (DOI) may be used to cite and link to electronic documents. The DOI consists of a unique alpha-numeric character string which is assigned to a document by the publisher upon the initial electronic publication. The assigned DOI never changes. Therefore, it is an ideal medium for citing a document, particularly 'Articles in press' because they have not yet received their full bibliographic information. Example of a correctly given DOI (in URL format; here an article in the journal *Physics Letters B*):

<http://dx.doi.org/10.1016/j.physletb.2010.09.059>

When you use a DOI to create links to documents on the web, the DOIs are guaranteed never to change.



### **Online proof correction**

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

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

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

### **Offprints**

The corresponding author, at no cost, will be provided with a personalized link providing 50 days free access to the final published version of the article on [ScienceDirect](#). This link can also be used for sharing via email and social networks. 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 (<http://webshop.elsevier.com/myarticleservices/offprints>). Authors requiring printed copies of multiple articles may use Elsevier WebShop's 'Create Your Own Book' service to collate multiple articles within a single cover (<http://webshop.elsevier.com/myarticleservices/booklets>).

#### *Additional information*

#### **Language editing**

Information on author-paid and pre-accept language editing services available to authors can be found at <http://authors.elsevier.com/LanguageEditing.html> .

#### **Online Publication**

Your article will appear on Elsevier's online journal database ScienceDirect as an "Article in Press" within approximately 4-6 weeks of acceptance. Articles in Press for this journal can be viewed at <http://www.sciencedirect.com/science/journal/02697491> . An Article in Press may be cited prior to its publication by means of its unique digital object identifier (DOI) number, which does not change throughout the publication process.

#### **AUTHOR INQUIRIES**

You can track your submitted article at [http://help.elsevier.com/app/answers/detail/a\\_id/89/p/8045/](http://help.elsevier.com/app/answers/detail/a_id/89/p/8045/). You can track your accepted article at <http://www.elsevier.com/trackarticle>. You are also welcome to contact Customer Support via <http://support.elsevier.com>.

© Copyright 2014 Elsevier | <http://www.elsevier.com>