



ENVIRONMENTAL RESEARCH

A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

●	Description	p.1
●	Impact Factor	p.1
●	Abstracting and Indexing	p.1
●	Editorial Board	p.2
●	Guide for Authors	p.3



ISSN: 0013-9351

DESCRIPTION

Environmental Research publishes original reports describing studies of the adverse effects of environmental agents on humans and animals. The principal aim of the journal is to assess the impact of chemicals and microbiological pollutants on human health. Both *in vivo* and *in vitro* studies, focused on defining the etiology of environmentally induced illness and to increase understanding of the mechanisms by which environmental agents cause disease, are especially welcome. Investigations on the effects of global warming/climate change on the environment and public health, as well as those focused on the effects of anthropogenic activities on climate change are also of particular interest.

Although *Environmental Research* is opened to all subjects directly related with this field, areas of special interest include:

- Air, soil, and water pollutants and health
- Biomonitoring and adverse human health effects
- Environmental and occupational medicine
- Environmental epidemiology
- Environmental microbiology
- Environmental toxicology
- Environmental transport and fate of pollutants
- Global warming/climate change
- Nanomaterials in the environment and nanotoxicology
- Risk analysis, risk assessment and risk management, and public health
- Waste treatment and disposal
- Water and wastewater management, and sewage

IMPACT FACTOR

2013: 3.951 © Thomson Reuters Journal Citation Reports 2014

ABSTRACTING AND INDEXING

MEDLINE®

EDITORIAL BOARD

Editor-in-Chief:

J.L. Domingo, Universitat Rovira i Virgili, Reus, Catalonia, Spain

Associate Editor:

D. Boyd Barr, Emory University, Atlanta, Georgia, USA

J. Dórea, University of Brasilia, Brasilia, DF, Brazil

N. Mai, Chinese Academy of Sciences (CAS), Guangzhou, China

Editor Emeritus:

P.J. Landrigan

Editorial Board Members:

J.M. Antó Boqué, CREAL, Barcelona, Spain

Y. Aoki, National Institute for Environmental Studies, Ibaraki, Japan

J. Baumgartner, McGill University, Montreal, Quebec, Canada

M. S. Bloom, State University of New York (SUNY) at Albany, Rensselaer, New York, USA

C. Borrego, Universidade de Aveiro, Glória, Aveiro, Portugal

J. Burger, Rutgers University, Piscataway, New Jersey, USA

M.E. Cebrián, Cinvestav, Mexico D.F., Mexico

A. Covaci, Universiteit Antwerpen, Wilrijk-Antwerpen, Belgium

C. Curriero, Johns Hopkins University, Baltimore, Maryland, USA

M. Dusinska, Norwegian Institute for Air Research, Kjeller, Norway

K.L. Ebi, ClimAdapt, Los Altos, California, USA

B. Eskenazi, University of California at Berkeley, Berkeley, California, USA

A.R. Flegal, University of California at Santa Cruz, Santa Cruz, California, USA

S.J.S. Flora, Ministry of Defence, Government of India, Gwalior, India

A.L. Frank, University of Texas, Tyler, Texas, USA

J.P. Giesy, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

M.S. Goldberg, McGill University, Montreal, Quebec, Canada

L.R. Goldman, Johns Hopkins University, Baltimore, Maryland, USA

P. Grandjean, University of Southern Denmark, Odense C, Denmark

M. Hatzopoulou, McGill University, Montreal, Quebec, Canada

G. Hoek, Utrecht University, Utrecht, Netherlands

M. Horvat, Jožef Stefan Institute, Ljubljana, Slovenia

M. Ikeda, Kyoto Industrial Health Association, Kyoto, Japan

M. Jerrett, University of California at Berkeley, Berkeley, California, USA

K. Kannan, State University of New York (SUNY) at Albany, Albany, New York, USA

R.J. Letcher, National Wildlife Research Center, Ottawa, Ontario, Canada

C. Loffredo, Georgetown University, Washington, District of Columbia, USA

M.P. Longnecker, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, North Carolina, USA

L.Q. Ma, University of Florida, Gainesville, Florida, USA

D. Mergler, Université du Québec à Montreal (UQAM), Montreal, Quebec, Canada

A. Mutti, Università degli Studi di Parma, Parma, Italy

J. Namieśnik, Technical University of Gdansk, Gdansk, Poland

A. Navas-Acien, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA

I. Rusyn, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA

M. Sakamoto, National Institute for Minamata Disease, Kumamoto, Japan

B. Shomar, Qatar Environment and Energy Research Institute (QEERI), Doha, Qatar

E.K. Silbergeld, Johns Hopkins University, Baltimore, Maryland, USA

A. Sweetman, Lancaster University, Lancaster, England, UK

S. Tong, Queensland University of Technology, Kelvin Grove, Queensland, Australia

A.M. Tsatsakis, University of Crete, Heraklion, Greece

M. Vahter, Karolinska Institutet, Stockholm, Sweden

B. van Bavel, Örebro University, Örebro, Sweden

P. Villeneuve, Carleton University, Ottawa, Ontario, Canada

X. Wang

M.S. Wolf, Mount Sinai School of Medicine, New York, New York, USA

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

A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health

Environmental Research: A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health publishes original reports describing studies of the toxic effects of environmental agents and conditions in humans and animals, including both experimental subjects and ecosystems. The principal aims of the journal are to increase understanding of the etiology of preventable disease and environmental impairments, and to increase understanding of the mechanisms by which environmental agents cause disease and ecological effects. Human impact on the biosphere is considerable and, thus, an additional aim of the journal is to explore the means by which the adverse effects of anthropocentric activities can be minimized through new initiatives or changes in policy, at the local, regional, national, and international scales.

The study of environmental health is inherently multidisciplinary and international. Therefore, the journal welcomes relevant articles in epidemiology, risk analysis and policy, environmental medicine, exposure assessment, geosciences and environmental chemistry, and wildlife biology and ecotoxicology, and ecology. Reports that bridge one or more of these disciplines are particularly encouraged, as are studies employing biological markers of exposure and/or effect.

The focus of the journal generally excludes papers that report results of toxicology studies or industrial exposures, unless these papers have clear relevance to environmental topics. The journal does not generally consider reports of a specific site or source (such as an assessment of releases or environmental contamination) unless these reports present novel or generalizable information. However, short papers can be submitted to the Journal as a "Report from the Field" (see below). Papers reporting on studies of human subjects must provide written assurance that the research was reviewed and approved by an appropriate institutional review board (or ethics committee) for the protection of human subjects. *Environmental Research*, in common with international practice in science, requires that all authors must, in denoting measures, utilize the metric system and SI derived units (e.g., degrees Centigrade rather than Fahrenheit; [Click here](#)). Authors are encouraged to contact the editors-in-chief, prior to a full submission, to determine the appropriateness of a paper (e.g., sending a short abstract or letter to the editorial office: er@elsevier.com).

Reports from the Field

The Journal welcomes short articles on topics of interest to environmental researchers and practitioners. Appropriate "Reports from the Field" include articles on environmental conditions, new methods for detection or analysis, updates, and case reports of human or ecosystem exposures and effects. Articles from around the world are particularly encouraged.

"Reports from the Field" should not exceed 2000 words and need not be divided into sections, although subheadings may help the reader and are encouraged. Authors must provide a short abstract (less than 75 words) and no more than two figures or illustrations, no more than 2 tables, and no more than 15 references. These papers will be peer-reviewed.

Contact Details for Submission

Authors should submit their article via the Elsevier Editorial System (EES), at <http://ees.elsevier.com/er>. You will be guided stepwise through the creation and uploading of the various files. Use the following guidelines to prepare your article. For any further information please contact the Author Support Department at authorsupport@elsevier.com

BEFORE YOU BEGIN

Article Content

We are expecting articles of the highest scientific quality. Editorials on what the Journal is expecting in manuscripts are described in: "On multiple comparisons and on the design and interpretation of epidemiological studies of many associations" [Click here](#). Authors are also referred to the STROBE Statement [Click here](#).

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>.

Policy and ethics

You are requested to provide information on funding sources supporting the work described in the manuscript. For all papers dealing with research or studies on human subjects or experimental animals, evidence must be provided of review and approval by an appropriately constituted committee for human subjects or animal research.

The work described in your article must have been carried out in accordance with *The Code of Ethics of the World Medical Association (Declaration of Helsinki) for experiments involving humans* <http://www.wma.net/e/policy/b3.htm>; *EC Directive 86/609/EEC for animal experiments* <http://europa.eu.int/scadplus/leg/en/s23000.htm>; *Uniform Requirements for manuscripts submitted to Biomedical journals* <http://www.nejm.org/general/text/requirements/1.htm>. This must be stated at an appropriate point in the article.

If this information is not provided upon submission, the paper will be returned without review.

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.

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.

Suggestion for Reviewers

Authors must suggest 4-5 names of potential reviewers who should have no conflict of interests with their work or that of their co-authors, including not working at their institution. For each suggested reviewer, authors must include: Full name and title, professional affiliation, and professional email address (avoiding yahoo, hotmail, gmail, etc. addresses). Please make sure that the email addresses you provide us with are valid and up-to-date. Give also at least one reason why the author is recommending her/his name as possible reviewer.

Please note that the journal may not use your suggestions. However, your help is appreciated and may speed up the selection of appropriate reviewers.

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 of Manuscripts

Authors are requested to submit their papers electronically by using online manuscript submission available at <http://ees.elsevier.com/er>. This site will guide authors stepwise through the submission process. Authors can upload their articles as Microsoft (MS) Word, WordPerfect, or LaTeX files. It is also possible to submit an article in PostScript or Adobe Acrobat PDF format, but if the article is accepted, the original source files will be needed. Zipped files containing individual files (letter to editor, manuscript, tables, figures) can also be downloaded and the online system will extract the files and allow them to be viewed and labeled. If you submit a word processing file, the system generates an Adobe Acrobat PDF version of the article for the reviewing process. Authors, reviewers, and editors send and receive all correspondence by e-mail and no paper correspondence is necessary. The manuscript will be edited according to the style of the journal, and authors must read the proofs carefully.

Online submissions require:

Cover Letter: Document (Word, WordPerfect, RTF, PDF, LaTeX) containing your cover letter to the Editors. The following statement should be included in the letter to the editor: " All of the authors have read and approved the paper and it has not been published previously nor is it being considered by any other peer-reviewed journal."

Response to Reviews (Resubmissions Only): Document (Word, WordPerfect, RTF, PDF, LaTeX) detailing your response to the reviewers' and editor's comments of a previously rejected manuscript that you are re-submitting.

Manuscript: Single word processing (Word, WordPerfect, RTF) or LaTeX file consisting of the title page, abstract, manuscript text, and any figure/table legends.

Manuscript file should include page numbers. Please do not include line numbering as this is automatically imposed by the editorial system.

Tables: Tables should be separate from the manuscript text, and can be uploaded individually or consolidated into a single file. The file description you input below when uploading your table must include the table number or range (e.g. Table 1, Tables 2-4).

Figures: Figures should be uploaded individually as TIF or EPS files. While other figure formats are allowed by the system (GIF, JPEG, Postscript, PICT, PDF, Excel and PowerPoint), they will delay the production process, should your manuscript be accepted. The file description you input when uploading your figure must include the figure number (e.g., Fig. 2A).

Manuscripts must be written in English. There are no submission fees or page charges. Manuscripts are accepted for review with the understanding that no substantial portion of the study has been published or is under consideration for publication elsewhere and that its submission for publication has been approved by all of the authors and by the institution where the work was carried out; further, that any person cited as a source of personal communication has approved such a citation. Written authorization may be required at the Editor's discretion. All papers reporting on studies involving human subjects must include documentation that the study was reviewed and approved, prior to its conduct, by an appropriate institutional review board for human subjects research. No exceptions will be made to this requirement. Manuscripts that do not meet the general criteria or standards for publication in *Environmental Research* will be immediately returned to the authors without detailed review.

Environmental Research does not publish proceedings or abstracts from scientific meetings. However, the journal welcomes submissions of papers from a specific meeting under the following conditions: 1) all papers must be peer-reviewed by the journal; 2) the decision of the editors for publishing papers is final; 3) proposals for publishing such papers must be submitted in advance of the meeting; 4) the proposers must undertake preliminary review and selection of papers for submission to the Journal; and 5) these papers must be submitted as a group or within a period of three months to ensure timely and coordinated publication.

Letters to the Editor

The journal encourages thoughtful and appropriate correspondence related to any published article. In such cases, the letter will be submitted to the corresponding author of the original article for response. Both the letter and the response will be published together.

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.

LaTeX

You are recommended to use the Elsevier article class *elsarticle.cls* (<http://www.ctan.org/tex-archive/macros/latex/contrib/elsarticle>) to prepare your manuscript and BibTeX (<http://www.bibtex.org>) to generate your bibliography.

For detailed submission instructions, templates and other information on LaTeX, see <http://www.elsevier.com/latex>.

Article structure

For original full-length and short communications:

Introduction should be as concise as possible, without subheadings.

Materials and methods should be sufficiently detailed to enable the experiments to be reproduced.

Results and Discussion may be combined and may be organized into subheadings.

For commentaries and articles related to environmental policy, alternate formats will be accepted but should include an Introduction describing the problem in terms that a general reader will understand. All statements of fact need to be referenced and papers that make use of newly acquired data must include a Materials and methods section as well as a Results and Discussion section.

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.

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.

Appendices

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

Essential title page information

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.

- **Author names and affiliations.** Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name and, if available, the e-mail address of each author.

- **Corresponding author.** Clearly indicate who will handle correspondence at all stages of refereeing and publication, also post-publication. **Ensure that phone numbers (with country and area code) are provided in addition to the e-mail address and the complete postal address. Contact details must be 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 note that the Journal's online editorial system (EES) now offers automatic line numbering.

Page 1 should contain the article title, the names and affiliations of all authors, and the name, telephone and fax numbers, e-mail address, and complete mailing address of the person to whom all correspondence should be sent.

Page 2 should contain an abstract and five descriptive keywords.

Page 3 provides information on funding sources supporting the work described in the manuscript. For all papers dealing with research or studies on human subjects or experimental animals, evidence must be provided of review and approval by an appropriately constituted committee for human subjects or animal research. **If this information is not provided upon submission, the paper will be returned without review.**

For original full-length and short communications:

Introduction should be as concise as possible, without subheadings.

Materials and methods should be sufficiently detailed to enable the experiments to be reproduced or the study design to be understood fully.

Results and Discussion may be combined and may be organized into subheadings.

For commentaries and articles related to environmental policy, alternate formats will be accepted but should include an Introduction describing the problem in terms that a general reader will understand. All statements of fact need to be referenced and papers that make use of newly acquired data must include a Materials and methods section as well as a Results and Discussion section.

Abstract

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

Graphical abstract

Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. 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

Immediately after the abstract, provide a maximum of 5 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.

Abbreviations

Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

Abbreviations should follow the usage established by *Chemical Abstracts*. Please restrict the use of acronyms, especially non-standard ones, as much as possible.

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.).

Acknowledgments should be brief and should precede the references. In agreement with the Commission on Publication Ethics, authors must submit full information on sources of funding and other support for their work that is presented in their paper.

Math formulae

Please submit math equations as editable text and not as images. Present simple formulae in line with 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. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

Footnotes

Footnotes should be used sparingly. Number them consecutively throughout the article. Many word processors build footnotes into the text, and this feature may be used. Should this not be the case, indicate the position of footnotes in the text and present the footnotes themselves separately at the end of the article.

Artwork

Electronic artwork

General points

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

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.

References in a special issue

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

Reference management software

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

References should be cited in the text by the author's name and year of publication. References should be listed alphabetically in an unnumbered list at the end of the paper in the following style:

Baecklund, M., Pedersen, N.L., Bjorkman, L., Vahter, M., 1999. Variation in blood concentrations of cadmium and lead in the elderly. *Environ. Res.* 80, 222-230.

Letourneau, D.K., 1997. Plant-arthropod interactions in agroecosystems. In: Jackson, L.E.(Ed.), *Ecology in Agriculture*. Academic Press, San Diego, pp. 239-290.

Morgan, W.K.C., Seaton, A. (Eds.), 1995. *Occupational Lung Diseases*, 3rd ed. Saunders, Philadelphia, pp. 308-373.

References drawn from the worldwide web must include the date in which the material was accessed.

The names of journals should be abbreviated according to the latest available edition of *Index Medicus* or *Chemical Abstracts Service Source Index*. Only articles that have been published or are in press should be included in the references. "Manuscript in preparation," "personal communication," and "unpublished observation" should be cited as such in the text.

Journal abbreviations source

Journal names should be abbreviated according to the List of Title Word Abbreviations: <http://www.issn.org/services/online-services/access-to-the-ltwa/>.

Only articles that have been published or are in press should be included in the references. "Manuscript in preparation," "personal communication," and "unpublished observation" should be cited as such in the text.

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](http://www.sciencedirect.com). 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>).

AUTHOR INQUIRIES

You can track your submitted article at 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>