



### TABLE OF CONTENTS

---

●	<b>Description</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: 1090-7807

### DESCRIPTION

---

The *Journal of Magnetic Resonance* presents original technical and scientific papers in all aspects of **magnetic resonance**, including **nuclear magnetic resonance spectroscopy** (NMR) of solids and liquids, electron spin/**paramagnetic resonance** (EPR), *in vivo* **magnetic resonance imaging** (MRI) and spectroscopy (MRS), **nuclear quadrupole resonance** (NQR) and magnetic resonance phenomena at nearly zero fields or in combination with optics. The *Journal's* main aims include deepening the physical principles underlying all these spectroscopies, publishing significant theoretical and experimental results leading to spectral and spatial progress in these areas, and opening new MR-based applications in chemistry, biology and medicine. The *Journal* also seeks descriptions of novel apparatuses, new experimental protocols, and new procedures of data analysis and interpretation - including computational and quantum-mechanical methods - capable of advancing MR spectroscopy and imaging.

With a solid track record spanning over four decades, the *Journal of Magnetic Resonance* is known for introducing high-quality, breakthrough articles. These have been seminal to the current state-of-the-art achieved by NMR, ESR, MRI and NQR, and it is a tradition we aim to preserve and enlarge. The *Journal's* readership spans the full range of disciplines impacted by magnetic resonance, including experts interested in magnetic resonance within the context of physics, engineering, materials sciences, chemistry, biophysics, structural biology, *in vivo* biochemistry, biology, preclinical analyses, and human imaging.

Emphasis is placed on expanding the basic principles and techniques underlying this branch of spectroscopy, as well as on state-of-the-art applications of novel MR experiments to all the research areas of interest to our constituency. Manuscripts that only make routine use of well-established techniques or minor spectroscopic contributions, are not appropriate for the *Journal*.

### IMPACT FACTOR

---

2013: 2.315 © Thomson Reuters Journal Citation Reports 2014

## ABSTRACTING AND INDEXING

---

Chemical Abstracts  
Current Contents/Physics, Chemical, & Earth Sciences  
Index to Scientific Reviews  
Science Abstracts  
Science Citation Index  
Scopus

## EDITORIAL BOARD

---

### *Editor:*

**L. Frydman**, Weizmann Institute of Science, Rehovot, Israel

### *Associate Editors:*

**Joseph J.H. Ackerman**, Washington University in St. Louis, St Louis, Missouri, USA

**B. Blümich**, RWTH Aachen University (RWTH), Aachen, Germany

**G. Jeschke**, Eidgenössische Technische Hochschule (ETH) Zürich, Zürich, Switzerland

**L.E. Kay**, University of Toronto, Toronto, Canada

**R. Tycko**, National Institutes of Health (NIH), Bethesda, MD, USA (Dr. Tycko is serving in his personal capacity).

### *Editorial Board:*

**A. Bax**, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Bethesda, Maryland, USA

**G. Bodenhausen**, École Normale Supérieure, Paris Cédex 05, France

**M.K. Bowman**, University of Alabama, Tuscaloosa, Alabama, USA

**S. Cavagnero**, University of Wisconsin-Madison, Madison, Wisconsin, USA

**G.M. Clore**, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), Bethesda, Maryland, USA

**D.G. Cory**, University of Waterloo, Waterloo, Ontario, Canada

**T.A. Cross**, Florida State University, Tallahassee, Florida, USA

**R.A. de Graaf**, Yale University School of Medicine, New Haven, Connecticut, USA

**G.R. Eaton**, University of Denver, Denver, Colorado, USA

**R.R. Ernst**, Eidgenössische Technische Hochschule (ETH) Zürich, Zürich, Switzerland

**I.C. Felli**, Università degli Studi di Firenze, Sesto Fiorentino, Italy

**J.H. Freed**, Cornell University, Ithaca, New York, USA

**E. Fukushima**, New Mexico Resonance, Albuquerque, New Mexico, USA

**Z. Gan**, Florida State University, Tallahassee, Florida, USA

**M. Garwood**, University of Minnesota Medical School, Minneapolis, Minnesota, USA

**D. Goldfarb**, Weizmann Institute of Science, Rehovot, Israel

**C.P. Grey**, University of Cambridge, Cambridge, UK

**C. Griesinger**, Max Planck Institut (MPI) für Biophysikalische Chemie, Göttingen, Germany

**R.G. Griffin**, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

**A. Gronenborn**, University of Pittsburgh, Pittsburgh, Pennsylvania, USA

**H. Halpern**, University of Chicago, Chicago, Illinois, USA

**S. Han**, University of California at Santa Barbara, Santa Barbara, California, USA

**M. Hong**, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA

**A. Jerschow**, New York University, New York, New York, USA

**E. Kupce**, Bruker UK Ltd., Coventry, U.K.

**M.H. Levitt**, University of Southampton, Southampton, UK

**C. Luchinat**, Università degli Studi di Firenze, Sesto Fiorentino, Italy

**P.K. Madhu**, Tata Institute of Fundamental Research, Colaba Mumbai, India

**A. McDermott**, Columbia University, New York, New York, USA

**B.H. Meier**, Eidgenössische Technische Hochschule (ETH) Zürich, Zürich, Switzerland

**S.J. Opella**, University of California at San Diego (UCSD), La Jolla, California, USA

**A.G. Palmer III**, Columbia University, New York, New York, USA

**A. Pines**, University of California at Berkeley, Berkeley, California, USA

**J.H. Prestegard**, University of Georgia, Athens, Georgia, USA

**T. Prisner**, Goethe-Universität Frankfurt, Frankfurt, Germany

**A. Ramamoorthy**, University of Michigan, Michigan, Michigan, USA

**B. Reif**, Technische Universität München, Garching, Germany

**C.M. Rienstra**, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA

**K. Saalwächter**, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany

**J. Schaefer**, Washington University in St. Louis, St. Louis, Missouri, USA

**K. Schmidt-Rohr**, Iowa State University, Ames, Iowa, USA

**A. Sederman**, University of Cambridge, Cambridge, UK

**A.J. Shaka**, University of California at Irvine, Irvine, California, USA

**Y.Q. Song**, Schlumberger-Doll Research, Ridgefield, Connecticut, USA  
**H.W. Spiess**, Max Planck Institute (MPI) for Polymer Research, Mainz, Germany  
**O.W. Sørensen**, Danmarks Tekniske Universitet (DTU), Lyngby, Denmark  
**P. van Zijl**, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA  
**E. Vinogradov**, University of Texas Southwestern Medical Center, Dallas, Texas, USA  
**G. Wagner**, Harvard University, Boston, USA  
**W.S. Warren**, Duke University, Durham, North Carolina, USA  
**A. Webb**, Leids Universitair Medisch Centrum (LUMC), Leiden, Netherlands  
**K. Wüthrich**, The Scripps Research Institute, La Jolla, California, USA  
**D. Yang**, National University of Singapore, Singapore, Singapore

## 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**

The *Journal of Magnetic Resonance* welcomes all papers involving magnetic resonance. With scientific excellence as the main criterion, the journal is meant to be inclusive, encompassing the most fundamental explorations of theory and experiment as well as applications to the full range of physical, chemical, biological, and medical problems. We especially invite papers describing new advances in methods and instrumentation for magnetic resonance determinations of protein structures, MRI and MRS in humans and animals, and electron spin resonance in all of its varieties. We would like to publish applications that make full use of emerging magnetic resonance methods, including applications to protein structures, human imaging, or the characterization of materials.

### *Types of paper*

The journal will publish two types of papers, Articles and Communications. Articles may be of any length; however, Communications must be short, corresponding to three to six printed pages. Both types of papers will have the same format, with a title page and abstract followed by the various sections of the manuscript. Although not all sections are required and a certain flexibility is possible, they typically include: Introduction, Theory/Experimental/Methods, Results, Discussion, Conclusions, Acknowledgments, Appendix, References, Tables, Figure legends, Figures. The Experimental section can be placed following Conclusions at the discretion of the authors when experimental methods are standard in the field and generally known to the JMR readership. We also encourage authors to place the Figures and their corresponding Captions within the text of the manuscript, close to where they are first referenced, upon doing the initial submission. In Communications and short Articles, it may be more convenient to include the experimental details in the figure legends rather than as a separate section.

Every effort will be made to process papers rapidly. Special steps will be taken to accelerate the handling of Communications; therefore the letter accompanying the submitted manuscript must explain why the paper merits accelerated review. In addition, a Communication will require no or only minor revisions. If major revisions are needed, then the paper will be treated as a regular Article.

### **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.

## **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 **\$2600**, 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

Our online submission system guides you stepwise through the process of entering your article details and uploading your files. The system converts your article files to a single PDF file used in the peer-review process. Editable files (e.g., Word, LaTeX) are required to typeset your article for final publication. All correspondence, including notification of the Editor's decision and requests for revision, is sent by e-mail.

For submitting your manuscripts to the *Journal of Magnetic Resonance* please go to our Elsevier Editorial System (EES) Website at: <http://ees.elsevier.com/jmr/>. Authors who are unable to provide an electronic version should contact the editorial office prior to submission at: [jmr@elsevier.com](mailto:jmr@elsevier.com).

## Referees

Authors should suggest at least 3-5 competent reviewers in their field who do not have any conflict of interest with either themselves or their co-authors. Authors may also suggest individuals whom they wish to have excluded from the review process. The list should be included in the cover letter.

## 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.

### *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

### **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.

### **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**

A Graphical abstract is mandatory for this journal. It should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership online. Authors must provide images that clearly represent the work described in the article. 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 also 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.

### **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 and a copy of the title page of the relevant article must be submitted.

##### *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.

##### *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 to the literature should be cited by number in brackets in the text and listed in numerical order at the end. Use the most recent edition of the *Chemical Abstracts Service Source Index* for abbreviations of journal titles. Only articles that have been published or are in press should be included in the references and the name of the journal should be included. Unpublished results or personal communications should be cited as such in the text.

[1] R.L. Haner, W. Llanos, L. Mueller, Small volume flow probe for automated direct-injection NMR analysis: design and performance, *J. Magn. Reson.* 143 (2000) 69-78.

[2] R.R. Ernst, G. Bodenhausen, A. Wokaun, *Principles of Nuclear Magnetic Resonance in One and Two Dimensions*, Clarendon Press, Oxford, 1987.

[3] A. Bax, S. Grzesiek, Methodological advances in protein NMR, in: G.M. Clore, A.M. Gronenborn (Eds.), *NMR of Proteins* Macmillan, London, 1993, pp. 33-52.

## 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>.

## 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>.

### **Structural Data**

Manuscripts must carry a statement that protein or nucleic acid structural data, including NMR constraints, and the derived atomic coordinates have been deposited with an appropriate data bank. The data bank reference number should be quoted in the paper along with the specified release date. The maximum delay for release of data should be 2 years. In the absence of a specified release date, it will be assumed that the material will be available immediately.

## **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/](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>