

## **Journal of Molecular Graphics and Modelling**

Published in Affiliation with the Molecular Graphics and Modelling Society and the ACS Division of Computers in Chemistry  
Former title: *Journal of Molecular Graphics*

### **Guide for Authors**

**Scope:** The *Journal of Molecular Graphics and Modelling* is devoted to the publication of papers on the uses of computers in experimental and theoretical investigations of molecular structure, function, interaction, and design. The scope of the journal includes all aspects of molecular modeling and computational chemistry, including, for instance, the study of molecular shape and properties, molecular simulations, protein and polymer engineering, drug design, materials design, structure-activity and structure-property relationships, database mining, and compound library design.

*JMGM* is published in association with two of the largest and most active professional societies in the field: the Molecular Graphics and Modelling Society (MGMS) and the Computers in Chemistry (COMP) Division of the American Chemical Society. Several thousand computational chemists worldwide belong to these two societies and any research topic that may of interest to the membership is within the wide scope of the journal. It is not necessary to be a member of these professional societies to publish in the journal.

### **Submissions:**

The preferred way to submit articles for *JMGM* is through the Elsevier Science online submission system at

<http://www.elsevier.com/submit/jmg>

Authors will be required to submit electronic files to Elsevier at the final stage of production in any case. The submission process will result in electronic files that the editors can more easily manage and forward to referees for review.

When submitting a manuscript, the corresponding author must supply an e-mail address in the cover letter, as the refereeing process is handled by e-mail.

Upon submission, possible referees can be recommended in the cover letter. If you have had your preprint read by colleagues who can critique the significance

of the work, include their names, addresses, and e-mail addresses in your cover letter.

If submission via the web site is not possible, please send four (4) copies of the complete manuscript including illustrations to either Editor:

Dr Jonathan Essex, Department of Chemistry, University of Southampton, Highfield, Southampton SO17 1BJ, United Kingdom. Dr Essex can be contacted via e-mail at [j.w.essex@soton.ac.uk](mailto:j.w.essex@soton.ac.uk), Tel: 44 23 8059 2794, and Fax: 44 23 8059 3781.

Prof. Andrew J. Holder, Department of Chemistry, Robert H. Flarsheim Hall, Room 410H, University of Missouri-Kansas City, Kansas City, MO 64110, U.S.A. Prof. Holder can be contacted via e-mail at [holdera@umkc.edu](mailto:holdera@umkc.edu), Tel: +1 816 235 2293, and Fax: +1 816 235 6543.

**General:** A copy of these instructions to authors is available online at <http://www.elsevier.nl/locate/jmgm/> which also has pertinent information about the journal.

All articles, notes, reviews, and communications will be refereed promptly by experts and, if accepted, published as expeditiously as possible. Acceptance will depend on the paper's significance, relevance, and quality of writing. Only previously unpublished work will be considered and the submission of a technical article will imply that the work has not been published elsewhere. The author(s) also agree that the paper, if accepted, will not be published elsewhere in the same form, in any language, without the consent of the copyright holder. It is the author's responsibility to obtain written permission to reproduce material that has appeared in another publication.

The official publication language of the Journal is English, and as such all papers that are submitted must have high standards of English grammar so that the scientific content can be coherently communicated to our readers. Authors whose first language is NOT English are encouraged to obtain review of aspect of their MS before submission.

There are no page charges. Color figures are published free of charge if deemed appropriate by the Editors. Accepted papers will appear both in print and on the World Wide Web, with online access available to individuals through ScienceDirect <http://www.sciencedirect.com/>.

The editors also welcome authoritative review articles or commentaries on any aspect of molecular modelling and computational chemistry. If you are

interested in contributing such material, you should first contact one of the Editors.

If a revised manuscript is submitted more than six months after it was initially submitted, it will be considered a new submission.

**Programs:** Descriptions of programs will not be accepted for publication by the Journal. However, descriptions of algorithms are acceptable.

**Manuscripts:** The manuscript should be typed double spaced (not space-and-a-half) throughout, including the tables, references, and figure captions. Use wide margins of about 4 cm (1.5 inches). The font should be at least 12 point size. Number every sheet in one sequence starting from the title page. Papers should be arranged in the following order: title; names of authors; address(es) of the place(s) at which the work was carried out; an abstract of 150-250 words outlining the work and highlighting significant conclusions of the paper; keywords (at least five); introduction, methodology, results, discussion, conclusions, acknowledgments (if any); references; tables (each on a separate page); captions to figures (together on one or more pages); and figures (each on a separate page). The title and abstract should be carefully worded to aid in retrieving the article from abstracting and database services. Left-justify the text, do not embed any page-layout instructions and disable automatic end-of-line hyphenation.

Trade names should be clearly identified. Use of Systeme Internationale (SI) units is encouraged; provide a conversion factor in parentheses at the first mention of non-SI units. Biochemical nomenclature should conform to that recommended by the IUPAC-IUB Commission, and enzymes should be referred to by their recommended names and numbers.

For chemical structure diagrams, use one of the standard chemical drawing software packages such as ChemDraw. Use Helvetica font for labels and text.

**Manuscripts describing new structure determinations:** Authors must submit the structural data to the Protein Data Bank (<http://www.rcsb.org/>) or other recognized database. These data include atomic coordinates and either X-ray amplitudes and phases or nuclear magnetic resonance constraints and assignments. If the paper discusses a protein structure only at the level of the main-chain alpha carbon atoms, only these coordinates need to be deposited. Manuscripts will not be published until confirmation has been received from the author that the required information has been received by the database. In the absence of a specified release date, it will be assumed that the crystallographic information is available coincident with appearance of the publication.

**Mathematical and technical terms:** Write mathematical, Greek and other symbols carefully using, for instance, a Symbol font. Explain the meaning of all symbols and acronyms in the text where they first occur. Identify Greek letters at their first mention by writing their names in English words in the margin. If you use several symbols, a list of definitions -- not necessarily for publication -- will be useful to and ensure the accuracy of the production editors. Identify all vectors, tensors, and matrices in bold. The journal is read by an international audience; therefore authors should attempt to make their work clear to diverse readers. Note the following points:

Use a zero before decimal quantities less than one, e.g., 0.376, not .376.

Group numbers consisting of more than three numerals in threes separated by spaces, rather than commas.

Use fractional exponents instead of root signs, e.g.,  $(3x + 9y)^{1/2}$ , not the square root symbol. (Here \*\* indicates that 1/2 is an exponent.)

Specify whether logarithms are to base 10 or base e.

Write simple mathematical fractions in the text on one line, e.g.,  $L(N - 1)/L(1)$ , not as a stacked fraction. If the fraction is complicated with superscripts and subscripts, then present it in a manner consistent with maximum clarity.

**Tables:** Number tables consecutively through the paper (with Arabic numerals) referring to them in the text as Table 1, Table 2, etc., with a short caption at the top of each table. Longer explanations of a table can be placed in footnotes to the table. Avoid the use of vertical rules, but horizontal rules can be used. Tables should not duplicate results presented in graphs.

**Illustrations:** Number figures consecutively through the paper (with Arabic numerals), referring to them in the text as Figure 1, Figure 2, etc., with a short caption being provided for each figure as appropriate. Likewise number schemes or other chemical diagrams consecutively through the paper (with bold Arabic numerals), referring to them in the text as Scheme 1, Scheme 2, etc., with a short caption provided for each scheme as appropriate. It is the author's responsibility to provide high-quality electronic images of all figures, graphs, and/or illustrations). All such artwork should be in high resolution; figure annotations or images with jagged edges are not suitable. Color drawings should be designed to have easily distinguishable colors. Each piece of art should be carefully labeled with the author's name and figure number, i.e., "Jones et al., Figure 3." If artwork is provided as separate files upon submission, names the files in a consistent manner. Indicate the top of the figure if not obvious. In order to stand up well during reduction for publication, lines in artwork should be no less than 1 point width. Use Helvetica font for labels and annotations in figures. Figure, table and

scheme captions should be typed together on a separate, clearly labeled, and not attached to the artwork.

**Color illustrations:** Color art is published within the body of an article without cost to the authors where deemed appropriate and required for clear communication by the Editors. However, because of the high costs of such printing, authors are requested to use black and white tone figures wherever possible. The Editors will look closely at every color figure to ensure that it is necessary.

**References:** Number all references in a single sequence in the order in which they are first mentioned in the text. Any references in the tables should be cited according their number in the text. References, numbered using Arabic numbers, should take the following form. Include titles and inclusive pagination of articles and book chapters. Include all coauthors of each reference; use of "et al." is acceptable in the body of a manuscript, but not in the references. Use the following style for journal articles, book chapters, books, and software:

1. Spellmeyer, D.C., Wong, A.K., Bower, M.J., and Blaney, J.M. Conformational analysis using distance geometry methods. *J. Mol. Graphics Modell.* 1997, **15**, 18-36.
2. Best, S.A., Merz, K.M. Jr., and Reynolds, C.H. Free energy perturbation study of octanol/water partition coefficients: Comparison with continuum GB/SA calculations. *J. Phys. Chem. B* 1999, **103**, 714-726.
3. Gao, J. Methods and applications of combined quantum mechanical and molecular mechanical potentials. In: *Reviews in computational chemistry*, Lipkowitz, K.B., and Boyd, D.B., Eds., VCH Publishers, New York, 1995, Vol. 7, pp. 119-185.
4. Allen, M.P., and Tildesley, D.J. *Computer simulation of liquids*. Clarendon, Oxford, 1987.
5. Spartan, version 4.1.1, 1993, Wavefunction, Inc., Irvine, Calif.

**Proofs:** One set of galley proofs is sent to the corresponding author prior to publication. Authors are responsible for ensuring that manuscripts (whether original or revised) are accurate, so that extensive changes to proofs will not be necessary. Extensive changes in results or conclusions at the proofs stage will require editorial approval. Authors may be charged for excessive alterations in proofs. The proofs should be returned within 48 hours by air express.

**Copyright:** Before publication, authors are requested to assign copyright to *Elsevier Science Inc.* This allows the company to sanction reprints and photocopies and to authorize the reprinting of complete issues or volumes according to demand. Authors' traditional rights will not be jeopardized by assigning copyright in this manner, as they will retain the right to reuse their material and to veto third-party publications.

**Reprints:** The corresponding author of an article published in the journal is entitled to receive 50 free reprints. Additional reprints may be ordered using the reprint order form sent to the author with proofs.

□

ELSEVIER

Last update: 23 May 2004

© Copyright <javascript:popup\_info('/homepage/about/c\_right/')> 1999-2004, Elsevier Science, All rights reserved.