

Journal of Chemical Research: Instructions for Authors

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1 General information

Introduction

The *Journal of Chemical Research* publishes Reviews and Research Papers in experimental chemistry. Papers that are short are welcome, but should not result in fragmentation of publication; they should describe a completed piece of work, and the *Journal is not intended as a vehicle for preliminary publications*. The work must meet all the normal criteria for acceptance as regards scientific standards.

All papers appear in printed form, and the Journal is also accessible on the internet through www.ingentaconnect.com/content/stl/jcr.

Papers are published in the English language. Authors whose first language is not English are advised to have their manuscript checked before submitting their paper. Papers in which the standard of English is inadequate will not be considered.

Scientific publishing is based on trust, and editors, publishers, and readers have the right to expect that papers are free from fraudulent data, plagiarised material, or duplicate publications. The Journal adheres to the code of ethics which is maintained by the major chemical societies; further details may be found on the web at <http://www.rsc.org/Publishing/ReSource/EthicalGuidelines/> and at <http://pubs.acs.org/instruct/ethic.html>

Administration

Manuscripts may be submitted by E-mail to jcr@scilet.com or uploaded to www.scilet.com/upload/ using the password

'chemistry'. Otherwise, two printed copies, and the file on a disk, should be sent to:

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An E-mail address must be provided for notification of page proof upload.

Receipt of the papers will be acknowledged, and the paper will be given a reference number that should be quoted in all subsequent correspondence.

Papers will be seen by two referees, and their comments will be communicated to the authors by one of the Editors. The present rate of acceptance is about 40%.

Authors will receive details for downloading their page proofs by E-mail, and these proofs should be checked carefully and returned to the Editorial Office by the date indicated on the first page of the proofs. *If no notification of corrections is received by the date that is specified, the publisher will assume that no corrections are required.*

The senior author will receive, free of charge, one printed copy and a CD of the relevant issue of the Journal, from either of which reprints can be generated. Authors who have access to the Journal on the internet can also download copies of their paper.

The corresponding author is required to sign an exclusive copyright licence as shown on page iii of these instructions.

2 Presentation of papers

The style in which manuscripts are published is best seen from recent examples in the Journal, and an electronic copy will be sent on request.

Typescripts should be prepared in double spacing (i.e. not more than eight lines of typing to a depth of 50 mm. The format should be as follows:

- i. Title.
- ii. Names of authors, with one forename for each given in full. Indicate with an asterisk (*) the name of the author who will deal with correspondence.
- iii. Address(es) of authors. Please include any postal or zip codes and the e-mail address of the author who will deal with correspondence.
- iv. Short abstract in which compounds should be named and not just assigned a number, and up to five keywords.
- v. A separate graphical abstract.
- vi. Text.

Formulae, equations, flow charts, graphs, tables, and illustrations, should be drawn on separate sheets of paper from the main text, and their position in the text should

be indicated except when that is immaterial. Colour can be used but authors will be charged, before publication, £200 per printed page on which colour is used. Any such graphics must fit a one- or two-column format with maximum width 8.2 cm or 11.2 cm. Formulae should be numbered sequentially using Arabic numerals: (1), (2) *etc.* Authors should provide either TIFF, EPS, ChemDraw, ChemWindow, or Isisdraw files, or good quality hard copy. The preferred settings in formulae drawing programs are: Arial 7 point font, bond length 0.43 cm./13 points, and bond width 0.016 cm/0.6 points.

References should be numbered individually in the text as superscripts, after any punctuation, and collected at the end of the paper in the following style. References should not be separated into parts (a), (b) *etc.* and all notes should be incorporated into the text.

1. D.N. Smith and A.D. Bond, *J. Org. Chem.*, 1983, **19**, 5997.
2. O. Arnet, P. Sanda and J.R. Stewart, *Aspects of aromaticity*, eds M. Charton and F. Hudson, Academic Press, New York, 1996. Vol. 1, pp. 185-189.

3 Experimental requirements

Authors must highlight any possible health and safety problems that could arise from compounds or procedures used in their work.

Details should be given of any instruments that are used, and the source of any spectroscopic or analytical services.

Convincing evidence of both purity and identity must be given for all new compounds; this will normally require good elemental analysis, which should be quoted to the nearest 0.1%, but a 5 in the second place of decimals should be retained: the accuracy should normally be to within $\pm 0.4\%$. The elemental composition may be defined by a high resolution mass spectrum, but this must be accompanied by additional evidence of purity. Key compounds that have been prepared before should be given the appropriate reference and

the relevant literature physical data, such as the melting point, should be quoted for comparison.

^1H NMR shifts should be quoted to two decimal places. The multiplicity, relative integrals, and J values should be quoted and assignments given where possible. ^{13}C chemical shifts should be quoted to one decimal place. Other numerical data should not be quoted to a greater precision than the measurements warrant.

Only IR peaks which characterise the functional groups of the compounds should be quoted.

For low resolution mass spectra, the eight major peaks, with the relative intensities, should be given.

Editors or referees may ask to see original copies of spectra or of results of analysis.

4 X-Ray crystallographic work

A brief mention of a crystallographic determination may be given in the title. Reference should be made to it in the abstract, without including cell dimensions and other crystal data.

The experimental details of data collection and structure analysis should be concise where routine procedures are used. Brief descriptions of any non-routine procedures should be given.

A conventional line drawing of the structure should normally be included, except in the simplest cases, and one perspective diagram (or stereo pair) if appropriate. Packing diagrams should not be included unless required to illustrate a specific chemical point. The atom-numbering scheme should be shown in one of the diagrams. Each atom of the asymmetric unit should be assigned an Arabic numeral in parentheses following the chemical symbol: C(2), O(12), etc.

The description of the structure may be given in textual or tabular form; the latter is more appropriate if several structure determinations are being reported. Any special details, such as hydrogen bonding, should be mentioned. If significant comment is made on the structures, tables of selected bond parameters with estimated standard deviations can be included. Such a table should be restricted to significant dimensions only (e.g. it is rarely necessary to include data for phenyl rings). Differences from expected norms should be noted. The experimental section of the paper should include the following:

1. The crystal data, including the formula, Mr
2. The space group, cell dimensions and volume
3. The number of formula units in the unit cell (Z)
4. The wavelength of the radiation and the linear absorption coefficient (μ)
5. The diffractometer that was used and the range for collecting data (θ , h , k , l)
6. The total number of reflections that were collected, the number of independent reflections and the number that were used in the structure determination.

7. The programmes that were used.
8. The R factors and residual electron density, peak and hole.
9. Details of where the data has been deposited and the accession

Submission of crystallographic data via electronic mail

Authors are encouraged to submit all supplementary crystallographic data as an ASCII file *via* electronic mail. The preferred format is the Crystallographic Information File (CIF). Authors should combine multiple data sets for a given manuscript into a single file. The individual structures in the combined file must be separated from each other by the sequence “#=END” at the beginning of a line. Authors must identify which manuscript the electronic file is associated with by entering the name of the manuscript at the top of the electronic file.

It is expected that the data will have been submitted to the Cambridge Crystallographic Data Centre (CCDC) or equivalent centre.

The information required for deposition includes:

- (1) A check list of items for deposition. This is available from the (CCDC) either by E-mail (to fileserv@ccdc.cam.ac.uk with the one-line message sendme depform) or *via* the World Wide Web (the CCDC Home Page is <http://www.ccdc.cam.ac.uk/>; the form can be saved as a simple text file).
- (2) A table of *final fractional atomic coordinates*.
- (3) Any *calculated coordinates* (e.g. of hydrogen).
- (4) A full list of *bond lengths and angles* with estimated standard deviations.
- (5) A full list of *displacement parameters* in the form B_{ij} or U_{ij} (in \AA^2 or pm^2)

Tables of *structure factors* (F_0 , F_c) should not be sent, but retained by the authors so that they can be made available to the referees if requested.

5 Reviews

Short reviews are published. These are normally commissioned, but authors who are interested in contributing such a review should make contact with one of the Editors. Reviews should be between 2,000 and 5,000 words in length, and authors will be remunerated at a rate of £40 (\$60) per printed page.

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Journal of Chemical Research

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Please read the following guidelines in conjunction with the *Instructions for Authors*. Successful use of your electronic data should speed up the production process and avoid errors being introduced.

- Papers should be submitted by E-mail to jcr@scilet.com or to www.scilet.com/upload/ – paper copies are not required. Electronic files should also be provided for the revised version of the manuscript.

File types

- We prefer to receive Microsoft Word or WordPerfect files, although we will endeavour to use other electronic versions wherever possible. For other word processors, also save the file as Rich Text Format (.rtf) if possible.
- Graphics: Please supply as TIFF or EPS format. We also accept ChemDraw files. The preferred settings in formula-drawing programs are as follows:

	ChemDraw	Chemwindow
Bond length	0.43 cm	13 points
Bond width	0.016 cm	0.6 points
Bold width	0.086 cm	2.5 points
Font Arial	7 point	7 point

Text details

- Please supply the text file as double-spaced, unjustified, ranged left, and without hyphenation. Auto-referencing features that bury references within the text should not be used.

Tables

- Please include any tables at the end of the text file, and use either the wordprocessor's table editor or tabs for formatting (but not a mixture of the two).

Graphics

- Artwork (other than structures) as TIFF or EPS.

Consistency

- Check the manuscript carefully for consistency, particularly in the representation of chemical formulae, compound names and words with alternative spellings

We will try to use the supplied data in our production process, but mathematical equations and tables in particular may be rekeyed by the typesetter. Page proofs should still be checked closely.

Change to reference style

In order to make articles published on-line more accessible and available for cross-referencing purposes, the style for references was amended as from January 2008

All references must be numbered individually; parts (a), (b) etc. should not be used.

All experimental details and notes should be included within the text.

The style for references remains the same

1. D.N. Smith and A.D. Bond, *J. Org. Chem.*, 1983, **19**, 5997.
2. O. Arnet, P. Sanda and J.R. Stewart, *Aspects of aromaticity*, 2nd edn, eds M. Charton and F. Hudson, Academic Press, New York, 1996. Vol. 1, pp. 185-189.

Microfiche discontinued 2009

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