

# Journal of Applied Electrochemistry

### INSTRUCTIONS FOR AUTHORS

#### Editor

A. A. Wragg,

School of Engineering and Computer Science, University of Exeter, North Park Road, Exeter EX4 4QF, UK

### North American Regional Editor

P. Pintauro, Department of Chemical Engineering, Tulane University, New Orleans, LA 70118, USA

#### Aims and Scope

The *Journal of Applied Electrochemistry* aims to focus attention on applied and engineering aspects of electrochemistry. Thus papers on the basic and other aspects in the following fields will constitute the major part of each issue: electrochemical engineering, current density distribution, optimization, scale-up, heat transport, techno-economic aspects of electrochemical processes, electrosynthesis, electrocatalysis, electrometallurgy, electrobiology, solid-state ionics, membrane applications, power sources and other related topics. Review articles discussing specific areas of electrochemistry of current technological importance are also published.

#### Manuscript submission

Kluwer Academic Publishers prefer the submission of manuscripts and figures in electronic form in addition to a hard-copy printout. The preferred storage medium for your electronic manuscript is a  $3\frac{1}{2}$ -inch diskette. Please label your diskette properly, giving exact details on the name(s) of the file(s), the operating system and software used. Always save your electronic manuscript in the word processor format that you use; conversions to other formats and versions tend to be imperfect. In general, use as few formatting codes as possible. For safety's sake, you should always retain a backup copy of your file(s). After acceptance, please make absolutely sure that you send the latest (i.e., revised) version of your manuscript, both as hard-copy printout and on diskette.

Kluwer Academic Publishers prefer articles submitted in word processing packages such as MS Word, WordPerfect, etc. running under operating systems MS DOS, Windows and Apple Macintosh, or in the file format LaTeX. Articles submitted in other software programs, as well as articles for conventional type-setting, can also be accepted.

For submission in LaTeX, Kluwer Academic Publishers have developed a Kluwer LaTeX class file, which can be downloaded from: www.wkap.nl/kaphtml.htm/ IFAHOME. Use of this class file is highly recommended. Do not use versions downloaded from other sites. Technical support is available at: texhelp@wkap.nl. If you are not familiar with TeX/LaTeX, the class file will be of no use to you. In that case, submit your article in a common word processor format.

For the purpose of reviewing, articles for publication should be submitted as hard-copy printout (three-fold), including all illustrations, and on diskette to:

A. Wragg, School of Engineering and Computer Science, University of Exeter, North Park Road, Exeter EX4 4QF, UK

Papers of North American authors are to be submitted to the North American Regional Editor:

P. Pintauro, Department of Chemical Engineering, Tulane University, New Orleans, LA 70118, USA

Authors are asked to suggest the names and addresses of two possible referees of submitted papers.

#### **Manuscript Presentation**

The journal's language is English. British English or American English spelling and terminology may be used, but either one should be followed consistently throughout the article. Manuscripts should be printed or typewritten on A4 or US Letter bond paper, one side only, leaving adequate margins on all sides to allow reviewers' remarks. Please double-space all material, including notes and references. Quotations of more than 40 words should be set off clearly, either by indenting the left-hand margin or by using a smaller typeface. Use double quotation marks for direct quotations and single quotation marks for quotations within quotations and for words or phrases used in a special sense.

Number the pages consecutively with the first page containing:

- running head (shortened title)
- title
- author(s)
- affiliation(s)
- full address for correspondence, including telephone and fax number and e-mail address

#### 1488

#### Abstract

Please provide a short abstract of 100 to 250 words. The abstract should not contain any undefined abbreviations or unspecified references.

### Key Words

Please provide 5 to 10 key words or short phrases in alphabetical order.

#### Figures and Tables

#### Submission of electronic figures

In addition to hard-copy printouts of figures, authors are encouraged to supply the electronic versions of figures in either Encapsulated PostScript (EPS) or TIFF format. Many other formats, e.g., Microsoft Postscript, PiCT (Macintosh) and WMF (Windows), cannot be used and the hard copy will be scanned instead.

Figures should be saved in separate files without their captions, which should be included with the text of the article. Files should be named according to DOS conventions, e.g., 'figure1.eps'. For vector graphics, EPS is the preferred format. Lines should not be thinner than 0.25pts and in-fill patterns and screens should have a density of at least 10%. Font-related problems can be avoided by using standard fonts such as Times Roman and Helvetica. For bitmapped graphics, TIFF is the preferred format but EPS is also acceptable. The following resolutions are optimal: black-and-white line figures - 600-1200 dpi; line figures with some grey or coloured lines - 600 dpi; photographs - 300 dpi; screen dumps - leave as is. Higher resolutions will not improve output quality but will only increase file size, which may cause problems with printing; lower resolutions may compromise output quality. Please try to provide artwork that approximately fits within the typeset area of the journal. Especially screened originals, i.e. originals with grey areas, may suffer badly from reduction by more than 10-15%.

Avoiding Problems with EPS Graphics. Please always check whether the figures print correctly to a PostScript printer in a reasonable amount of time. If they do not, simplify your figures or use a different graphics program.

If EPS export does not produce acceptable output, try to create an EPS file with the printer driver (see below). This option is unavailable with the Microsoft driver for Windows NT, so if you run Windows NT, get the Adobe driver from the Adobe site (www.adobe.com).

If EPS export is not an option, e.g., because you rely on OLE and cannot create separate files for your graphics, it may help us if you simply provide a PostScript dump of the entire document.

How to set up for EPS and postscript dumps under windows. Create a printer entry specifically for this purpose: install the printer 'Apple Laserwriter Plus' and specify 'FILE': as printer port. Each time you send something to the 'printer' you will be asked for a filename. This file will be the EPS file or PostScript dump that we can use.

The EPS export option can be found under the PostScript tab. EPS export should be used only for single-page documents. For printing a document of several pages, select 'Optimise for portability' instead. The option 'Download header with each job' should be checked.

#### Submission of hard-copy figures

If no electronic versions of figures are available, submit only high-quality artwork that can be reproduced as is, i.e., without any part having to be redrawn or re-typeset. The letter size of any text in the figures must be large enough to allow for reduction. Photographs should be in black-and-white on glossy paper. If a figure contains colour, make absolutely clear whether it should be printed in black-and-white or in colour. Figures that are to be printed in black-and-white should not be submitted in colour. Authors will be charged for reproducing figures in colour.

Each figure and table should be numbered and mentioned in the text. The approximate position of figures and tables should be indicated in the margin of the manuscript. On the reverse side of each figure, the name of the (first) author and the figure number should be written in pencil; the top of the figure should be clearly indicated. Figures and tables should be placed at the end of the manuscript following the Reference section. Each figure and table should be accompanied by an explanatory legend. The figure legends should be grouped and placed on a separate page. Figures are not returned to the author unless specifically requested.

In tables, footnotes are preferable to long explanatory material in either the heading or body of the table. Such explanatory footnotes, identified by superscript letters, should be placed immediately below the table.

#### Section Headings

Section headings should be numbered (e.g., 1., 1.1., 1.1.1., 2., 2.1., etc.).

#### Appendices

Supplementary material should be collected in an Appendix and placed before the Notes and Reference sections.

#### Cross-Referencing

In the text, a reference identified by means of an author's name should be followed by the reference number in square brackets. When there are more than two authors, only the first author's name should be mentioned, followed by 'et al.'. In the event that an author cited has had two or more works published during the same year, the reference in the reference list, should be identified by a lower case letter like 'a' and 'b' after the date to distinguish the works.

*Examples*: Winograd [1] Bullen and Bennett [1]

### Acknowledgements

Acknowledgements of people, grants, funds, etc. should be placed in a separate section before the References.

#### References

References to books, journal articles, articles in collections and conference or workshop proceedings, and technical reports should be listed at the end of the article in alphabetical order (see examples below). Articles in preparation or articles submitted for publication, unpublished observations, personal communications, etc. should not be included in the reference list but should only be mentioned in the article text (e.g., T. Moore, personal communication).

References to books should include the author's name; year of publication; title; page numbers where appropriate; publisher; place of publication, in the order given in the example below.

1. R.K. Clayton, 'Photosynthesis: Physical Mechanisms and Chemical Patterns' (Cambridge University Press, Cambridge, 1980) 100 pp.

References to articles in an edited collection should include the author's name; year of publication; article title; editor's name; title of collection; first and last page numbers; publisher; place of publication., in the order given in the example below.

2. Taniguchi, Electrochemical and photoelectro-chemical reduction of carbon dioxide, *in* 'Modern Aspects of Electrochemistry' (edited by J.O. Bockris, R.E. White and B.E. Conway), Vol. 20 (Plenum, New York, 1980) pp. 327–400.

References to articles in conference proceedings should include the author's name; year of publication; article title; editor's name (if any); title of proceedings; first and last page numbers; place and date of conference; publisher and/or organisation from which the proceedings can be obtained; place of publication, in the order given in the example below.

 A.J. Appleby and B. Pichon, 'Electrochemical Aspects of the H<sub>2</sub>SO<sub>4</sub>–SO<sub>2</sub> Thermoelectrochemical Cycle for Hydrogen Production', Proceedings of the 2nd World Hydrogen Energy Conference, Zurich, Switzerland, 21–24 August (1978) pp. 687–797. References to articles in periodicals should include the author's name; year of publication; article title; full title of periodical; volume number (issue number where appropriate); first and last page numbers, in the order given in the example below.

 S. Piovano, N.O. Cavatorta and U. Bohm, J. Appl. Electrochem. 18 (1988) 128.

References to technical reports or doctoral dissertations should include the author's name; year of publication; title of report or dissertation; institution; location of institution, in the order given in the example below.

 C.W.M.P. Sillen, 'The Effect of Gas Bubble Evolution on the Energy Efficiency in Water Electrolysis', Dissertation (Technical University, Eindhoven, 1989).

### Proofs

Proofs will be sent to the corresponding author. One corrected proof, together with the original, edited manuscript, should be returned to the Publisher within three days of receipt by mail (airmail overseas).

#### Offprints

Fifty offprints of each article will be provided free of charge. Additional offprints can be ordered by means of an offprint order form supplied with the proofs.

#### Page charges and colour figures

No page charges are levied on authors or their institutions. Colour figures are published at the author's expense only.

#### Copyright

Authors will be asked, upon acceptance of an article, to transfer copyright of the article to the Publisher. This will ensure the widest possible dissemination of information under copyright laws.

#### Permissions

It is the responsibility of the author to obtain written permission for a quotation from unpublished material, or for all quotations in excess of 250 words in one extract or 500 words in total from any work still in copyright, and for the reprinting of figures, tables or poems from unpublished or copyrighted material. 1490

### Additional information

Additional information can be obtained from Kluwer Academic Publishers, *Journal of Applied Electrochemistry*, P.O. Box 17, 3300 AA Dordrecht, The Netherlands. Phone: +31 78 6392155; Fax: +31 78 6392254; E-mail: JanWillem.Wijnen@wkap.nl

## Visit the journal's website at:

http://www.wkap.nl/journalhome.htm~/0021-891X