

Instructions for Authors

1 Preparation of Manuscripts

- 1.1 Manuscripts must be typewritten, double-spaced copy (one side only) on A4 paper with Times and Symbol fonts. If a printer is used, its output must be of high quality. Authors should make certain that copies of the manuscript are clearly reproduced.
- 1.2 The title of the paper, the names of the authors, and the place (s) where the work was done, including the complete address (es), should be written on the first page. The names of the authors should be written in the order of first name, middle initial (s), and surname, with an asterisk indicating the corresponding author. The abstract (100-200 words for *Articles*, *Technological Reports*, *Comprehensive Papers*, and *Reviews*; and 50-100 words for *Notes* and *Communications*), keywords (no more than four, with each keyword containing no more than three words), text, references, tables, figure captions, and figures should follow the first page in this order.
- 1.3 The text usually consists of the Introduction, Experiment, Results, Discussion (or Results and Discussion), and Conclusions (not necessarily).
- 1.4 Acknowledgments should be placed at the end of the text.
- 1.5 References to the literature and all notes should be numbered in one consecutive series by using parenthesized superscript numbers corresponding to the original references. When a comma, period (full stop), colon, or semicolon follows the word with the parenthesized reference number, it should be placed between the word and the number. Literature references and notes should be arranged and punctuated as shown in **Appendix I**. The names of the journals in the literature should be abbreviated as in *Chemical Abstracts*.
- 1.6 Figures and photographs must fit a one- or two-column format (86 mm or 178 mm width) on the journal page, and hence the figures and photographs should be submitted in the actual size and on a separate paper (see **Appendix III**). Figure captions should be arranged on a separate paper. A scale bar should be included in an appropriate place of microscopic photographs.
- 1.7 Color is available for figures and photographs. An additional charge to cover the cost of color printing will be required. The author may ask the editorial office to estimate the exact charge.
- 1.8 Each table should be prepared on a separate paper. As the table may need to be reduced or reprepared to fit a one- or two-column format (86 mm or 178 mm width) on the journal page, its structure and layout should be arranged properly (see **Appendix II**).

- 1.9 For electronic submission, authors should send original files (e.g. MS-Word[®], MS-PowerPoint[®], etc.) of the manuscript including tables, figures and/or pictures, and a PDF file in which a Cover Letter is placed on the first page, followed by the complete set of the manuscript. The corresponding author's name, operating system, and software with version number should be specified in the document of the e-mail.
- 1.10 The number of pages in the printed form should be roughly evaluated by layout formatting, and it should not exceed three for *Notes* and *Communications*. A MS-Word[®] template is available for layout formatting via our Web (<http://edit.electrochem.jp/>).

2 Miscellaneous

- 2.1 A subtitle may follow the main title with a period. A sequential number in Roman numerals should follow the main title when a common main title is used in a series of consecutive reports. The use of "Study on" is not recommended as a title.
- 2.2 The first letter of the first name and all the letters of the surname are capitalized.
- 2.3 When the work was done in more than two places, labeling using Roman letters in alphabetical order from "a" should be marked as a superscript on the right side of the concerned author's name and on the left side of the place where the work was done. When the present affiliation of the author (s) is different from the place where the work was done, the address should be preceded by the words "Present address:".
- 2.4 The following systematic headline numbers may be used. *e.g.*, **1**, **1.1**, **1.1.1**, (1), (a) and so on.
- 2.5 Mathematical expressions and chemical structures will be treated as symbols in the printing. The usage of chemical structures is not recommended in the text and in the titles of figures and tables.
- 2.6 The nomenclature of the chemicals should follow the IUPAC rules : *Nomenclature of Inorganic Chemistry*, Butterworths, London (1971) ; and *Nomenclature of Organic Chemistry*, Sections A, B, C, D, E, F & H, 1979 Ed., Pergamon Press, Oxford (1979).
- 2.7 Terminology, symbols, units, and quantities should follow the IUPAC rules: I. Mills, T. Cvitas, K. Homann, N. Kallay, and K. Kuchitsu, *Quantities, Unit and Symbols in Physical Chemistry*, Blackwell Publications, Oxford(1988) ; Manual of Symbols and Terminology for Physicochemical Quantities and Units, *Pure Appl. Chem.*, **51**, 1 (1979) ; and **Appendix III** – Electrochemical Nomenclature, *Pure Appl. Chem.*, **37**, 499 (1974).
- 2.8 Metric units (SI) should be used for all quantities except for the following units. For the other units, their conversion to the SI units should be described in

the text. Minute (min), hour (h), day (day), and angle ($^{\circ}$, ', ") may be used.

angstrom	1 Å = 10 ⁻¹⁰ m
ton	1 t = 1 Mg = 10 ³ kg
liter	1 l = 1 L = 1 dm ³ = 10 ⁻³ m ³
atmosphere	1 atm = 101325 Pa
torr	1 Torr = 133.322 Pa
calorie(thermochemical)	1 cal _{th} = 4.184 J
curie	1 Ci = 3.7 × 10 ¹⁰ Bq = 3.7 × 10 ¹⁰ s ⁻¹
kilowatt-hour	1 kWh = 3.6 × 10 ⁶ J
poise	1 P = 10 ⁻¹ Pa s = 10 ⁻¹ kg m ⁻¹ s ⁻¹
stokes	1 St = 10 ⁻⁴ m ² s ⁻¹
electron-volt	1 eV = 1.60218 × 10 ⁻¹⁹ J

2.9 The electrochemical potential, if SCE is used as standard, should be described as $E = -0.24$ V vs. SCE.

2.10 Mathematical expressions and chemical equations should be numbered in one consecutive series with parenthesized numbers. Fractional expressions in the text should be described as a/b and (a+b)/(c+d). Doubled superscript and subscript should be avoided.

3 Submission of Final Version of Manuscripts

3.1 Upon acceptance of the manuscript for publication, authors will be requested to submit original electric files (e.g. MS-Word[®], MS-PowerPoint[®], etc.) of the final manuscript including tables, figures and/or pictures. The corresponding author's name, manuscript number, operating system, and software with version number are specified on submission. Authors who used electronic submission do not have to send the files again.

3.2 Manuscript accepted as Communications may be published online on our Web before being published in *Electrochemistry*, at the authors' request. Authors who request the electronic publication of the accepted manuscript on the Web should layout the final manuscript using the MS-Word[®] template by themselves, and submit its PDF file.

3.3 If authors do not provide the final manuscript as electronic file (s), typesetting fee will be charged to the authors.

4 Proofs and Reprints

4.1 Authors will receive the proofs, and be requested to correct and return them. No revision, insertion, or deletion of words, except for misprints by the publisher, will be accepted.

4.2 The reprint order form should be completed and returned with the corrected proofs.

4.3 The number of pages printed with 10 point Times in the journal can be estimated by the following:

Text: two columns on a page, with each column having a 86 mm width and containing 60 lines. Figures, tables, and photographs: Each has a one- or two-column width.

Appendix I (examples for a list of references)

- 1) K. Ueno and M. Seo, *Denki Kagaku (Electrochemistry)*, **66**, 713 (1998).
- 2) S. Abe, A. Fuchigami, and T. Nonaka, *Chem. Lett.*, **1984**, 1033.
- 3) L. R. Faulkner, *Chem. Eng. News*, 1984, February 27, p.28.
- 4) R. W. Murray, *Acc. Chem. Res.*, **13**, 135 (1980) and references cited therein.
- 5) A. J. Bard and L. R. Faulkner, *Electrochemical Methods, Fundamentals and Applications*, John Wiley and Sons, New York, NY, p.214 (1980).
- 6) S. Trasatti, *Comprehensive Treatise of Electrochemistry* (Eds. J. O' M. Bockris, B. E. Conway, and Y. Yeager), Vol. 1, Plenum Press, New York, NY, p. 44 (1980).
- 7) K. M. Mess, Ph. D. Thesis, University of Leiden, Leiden, The Netherlands (1969).
- 8) H. F. Lockwood, *U. S. Patent*, 3759835 (1965); *Chem. Abstr.*, **73**, 46241q (1970).
- 9) *Selected Values of Chemical Thermodynamic Properties, National Bureau of Standards Circular 500*, U. S. Government Printing Office, Washington, D. C. (1950).
- 10) L. Roe, *AEC Report* 66-170, Los Altos, CA, February (1964).
- 11) These compounds were analyzed by gas chromatography (column packing: Apiezon Grease L; temperature: 120 °C).
- 12) J. Robinson, G. E. Thompson, and K. Shimizu, *Oxide Films on Metals and Alloys VII* (Eds. K. R. Hebert and G. E. Thompson), PV 94-25, p.1, *The Electrochemical Society Proceedings Series*, Pennington, NJ (1994).

Appendix II (example for figure)

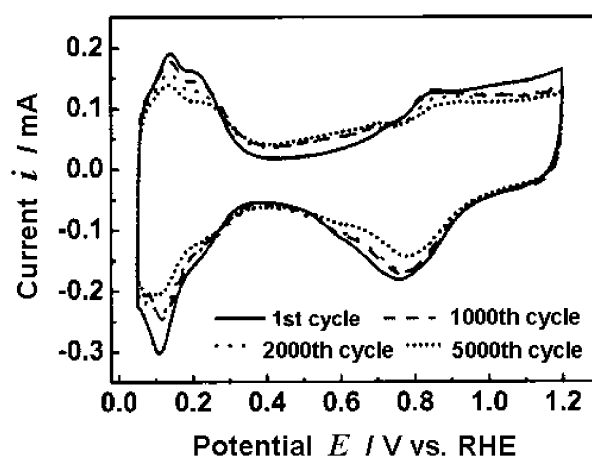


Fig. 1 Cyclic voltammograms of Pt/C catalyst loaded at 11.4 $\mu\text{g cm}^{-2}$ on glassy carbon disk electrode before and after potential cycling tests in the range of 1.0 to 1.5 V in 0.1 M HClO₄. Sweep rate: 500 mV s⁻¹, temperature: 60 °C.

Appendix III (example for table)

Table 1 Comparison of kinetic parameters for oxygen electrode reaction and the double layer capacitance obtained by different techniques on Au in 43 mol% Li₂CO₃ + 57 mol% K₂CO₃ at 650 °C^{a)}

Methods	Parameters ^{b)}				
	$i_0/\text{mA cm}^{-2}$	$\theta/\Omega \text{ cm}^2$	$C_d/\text{mF cm}^{-2}$	$\sigma/\text{cm}^2 \text{ s}^{1/2}$	$\alpha_c^{c)}/-$
AC impedance	38.5	1.03	114	146	
Coulostatic relaxation	26.9	1.48	111		
Potential step	9.55				0.56

a) $P(\text{O}_2)/P(\text{CO}_2) = 0.9/0.1$. b) Calculated with $\eta = 2$. c) Apparent cathodic transfer coefficient: $\alpha_c = (F/RT) \{d \ln(|I_c|) / dE\}$.

Revised June 5, 2009