

How to Submit - Welcome to submission to “*Electrochemistry*”

The Aim of Electrochemistry

The Electrochemical Society of Japan (ECSJ) publishes original articles and notes written in English or Japanese by authors active in the disciplines of electrochemistry and industrial physical chemistry, and in related industrial fields, along with reviews, commentaries, research materials, statistics and discussions aimed at the dissemination of new information and at continuing re-education.

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Instructions for Authors

The author is strongly recommended to read

[“Electrochemistry - Instructions for Authors \(Vol. 88, 2020\)”](#)

in the following pages.

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February 26, 2020

The Editorial Committee
The Electrochemical Society of Japan

Electrochemistry - Instructions for Authors (Vol. 88, 2020)

Revised on December 18, 2019

1. Preparation of Manuscripts

1.1 Format

Manuscript must be prepared double-spaced on A4 (or letter size) paper by 12 points Times and Symbol fonts with ample margins. Authors should make certain that printout and copies of the manuscript are clearly reproducible in high quality. Page numbers should be assigned to each page. No two-byte characters should be used in the manuscript.

1.2 Structure of manuscript

Manuscript consists of items in the order from (A) to (F). Each item from (A) to (F) should be made with separate pages. (A) Cover page, (B) Abstract and Key words, (C) text, (D) References, (E) Tables, (F) Figures

1.3 Length of manuscript

The number of pages in the printed form should be roughly evaluated by following Eq. 1, and should not exceed three pages for Notes and Communications.

$$\text{Number of Pages} = [\text{Number of Words}] / 7 + [(\text{Number of Figures and Tables}) \times 15 + 50] / 120 \quad (1)$$

1.4 Cover page

The title of the paper, the names of the authors, and the affiliation(s) where the work was done, including the complete address(es), should be given on the cover 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.

1.5 Abstract, Key words, and Abstract Graphics

The abstract (100–200 words for Articles, Technological Reports, Comprehensive Papers, and Reviews; and 50–100 words for Notes and Communications), and keywords (maximum of four, with each keyword containing no more than three words) should appear on this page. The abstract may include a typical illustration of the paper (Abstract Graphics, 340 px width x 240 px height).

1.6 Text, and References

The text should typically consist of the following sections; Introduction, Experiment, Results, Discussion (or Results and discussion), and Conclusions. Acknowledgments should be placed at the end of the text. References to the literature and all notes should be numbered in one consecutive series by using superscript numbers corresponding to the original references. When a comma, period (full stop), colon, or semicolon follows the word with the reference number, it should be placed between the word and the number. Literature references and notes should be arranged and punctuated as follows. The names of the journals in the literature should be abbreviated as in CAS Core Journal Abbreviations or ISI Journal Title Abbreviations.

1. K. Ueno and M. Seo, *Denki Kagaku* (presently *Electrochemistry*), **66**, 713 (1998).
2. K. Matsumoto, A. Matsuoka, and K. Nakagawa, *Denki Kagaku* (presently *Electrochemistry*), **66**, 537 (1998). [in Japanese]
3. S. Abe, A. Fuchigami, and T. Nonaka, *Chem. Lett.*, 1033 (1984).
4. L. R. Faulkner, *Chem. Eng. News*, **1984**, February 27, p.28.
5. R. W. Murray, *Acc. Chem. Res.*, **13**, 135 (1980).

6. J. Bard and L. R. Faulkner, *Electrochemical Methods, Fundamentals and Applications*, John Wiley and Sons, New York, NY, p.214 (1980).
7. 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).
8. K. Izutsu, *Denkyoku-hanno no Kiso* (Ed. T. Osa), Kyoritsu Shuppan, Tokyo, Chap. 2 (1973). [in Japanese]
9. K. M. Mess, Ph. D. Thesis, University of Leiden, Leiden, The Netherlands (1969).
10. H. F. Lockwood, U. S. Patent, 3759835 (1965); *Chem. Abstr.*, **73**, 46241q (1970).
11. Y. Masuda and I. Uchida, *55th Annual Meeting of the Electrochemical Society of Japan, Abstr.*, p.122 (1988). [in Japanese]
12. *Selected Values of Chemical Thermodynamic Properties, National Bureau of Standards Circular 500*, U. S. Government Printing Office, Washington, D. C. (1950).
13. L. Roe, AEC Report 66-170, Los Altos, CA, February (1964).
14. These compounds were analyzed by gas chromatography (column packing: Apiezon Grease L; temperature: 120°C).
15. 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).

1.7 Tables

Each table should be prepared on a separate page. As the table may need to be reduced or re-prepared 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.

1.8 Figures

Figures must fit a one- or two-column format (86 mm or 178 mm width, respectively) on the journal page, and hence figures should be prepared in consideration of the actual size, each on a separate page. The resolution, font size, ruled line must be 600 dpi, > 9 pt, > 0.5 pt (0.18 mm), respectively. Only one figure should be prepared on a page. Figure captions should be arranged on a separate page, and figures follow in order.

Photographs are dealt with Figures. A scale bar should be included in an appropriate position for microscopic photographs. Color is available for figures and photographs in PDF format on the web.

1.9 Supporting Information

Authors can use Supporting Information (denoted as *SI*) to support and enhance the article. Additional figures, tables, mathematical deviations, sound files, movies etc. can be included in the *SI* and published on-line (Open Access) linked with the article. Submit *SI* simultaneously with the on-line submission of the manuscript. In either case, the file format and file size are limited by the J-STAGE on-line system, https://www.jstage.jst.go.jp/static/pages/guidance/-char/ja#denshi_furoku_tab. Please refer to “Registration of electronic appendix” described in. It is desirable to use the most widely used file formats such as jpg, gif, tiff, mpg, mp4, etc., as it is essential to check the contents of the file for peer review as well as for access by the readers of the paper.

- A) The *SI* should be preceded by a cover page that is labeled at the top as “Supporting Information” and provides the title, authors, author affiliations, and corresponding author (see item 1.4 above).
- B) Essential items must be included in the article, NOT in the *SI*.
- C) Page numbers should be included in the Supporting Information file and formatted as “S1, S2, S3, etc” at the center of bottom margin. Figures, Tables, or Movies should be labeled as “S1, S2, S3, etc”. They should be cited in the text, for example, Fig. S1 of the Supporting Information or Movie S2.
- D) If the manuscript is accompanied by any *SI* file, a brief paragraph should be placed at the end of the manuscript before the acknowledgement (or the list of references). The appropriate format is:

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2. Miscellaneous

Formatting and styles should follow the fundamental regulations published after Vol. 80, No. 1, issued on January 2012 in J-STAGE online.

- 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 middle 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, 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: IUPAC Nomenclature Books Series (<http://old.iupac.org/publications/books/seriestitles/nomenclature.html>)
- 2.7 Terminology, symbols, units, and quantities should follow the IUPAC rules: E.R. Cohen, T. Cvitaš, J. G. Frey, B. Holmström, K. Kuchitsu, R. Marquardt, I. Mills, F. Pavese, M. Quack, J. Stohner, H.L. Strauss, M. Takami, and A. J. Thor, Quantities, Units and Symbols in Physical Chemistry - the IUPAC Green Book - 3rd edition (IUPAC, RSC Publishing, Cambridge 2007 [ISBN 0 85404 433 7; ISBN-13 978 0 85404 433 7]).
- 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 (° ,',") may be used.
angstrom: $1 \text{ \AA} = 10^{-10} \text{ m}$
ton: $1 \text{ t} = 1 \text{ Mg} = 10^3 \text{ kg}$
liter: $1 \text{ L} = 1 \text{ dm}^3 = 10^{-3} \text{ m}^3$
atmosphere: $1 \text{ atm} = 101325 \text{ Pa}$
torr: $1 \text{ Torr} = 133.322 \text{ Pa}$
curie: $1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq} = 3.7 \times 10^{10} \text{ s}^{-1}$
kilowatt-hour: $1 \text{ kWh} = 3.6 \times 10^6 \text{ J}$
poise: $1 \text{ P} = 10^{-1} \text{ Pa s} = 10^{-1} \text{ kg m}^{-1} \text{ s}^{-1}$
stokes: $1 \text{ St} = 10^{-4} \text{ m}^2 \text{ s}^{-1}$
electron-volt: $1 \text{ eV} = 1.60218 \times 10^{-19} \text{ J}$
- 2.9 The electrochemical potential, if SCE is used as standard, should be described as $E = -0.24 \text{ V vs. SCE}$.
- 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.

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(<http://www.editorialmanager.com/electrochemistry/>) and the authors will proceed stepwise and upload the manuscript files.

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