

# Journal of the Vacuum Society of Japan

## Information for Contributors

Edition 6/February/2015

*Journal of the Vacuum Society of Japan* (hereinafter referred to as “J. Vac. Soc. Jpn.”) is a monthly publication for scientific papers in the field of vacuum science and technology and their applications, such as applied surface science, electronic materials and processing, nanometer structures, plasma science and technique, surface engineering, surface science, and thin films. J. Vac. Soc. Jpn. is intended for reports of original research and review articles written either in Japanese or in English. It also includes the proceedings of the annual symposium of the Vacuum Society of Japan (VSJ), as well as other (international) conferences sponsored by VSJ.

### 1. Articles

#### 1.1. Original papers

##### 1.1.1. Regular articles

Original reports comprising a complete, detailed, self-contained description of an item of research. A Regular article should be limited to 4,800 words including an abstract in English (6 printed pages\*).

##### 1.1.2. Letters

Short submissions intended for accelerated publication, which report on a brief item of research and important or new results. A Letter should be limited to 2,500 words including an abstract in English (3 printed pages\*).

#### 1.2. Reviews

Critical articles that provide an update of an area of vacuum science and technology and their applications. A Review should be limited to 6,400 words including an abstract in English (8 printed pages\*). It is preferred in a Review that the authors provide readers with an appropriate and sufficient list of references.

#### 1.3. Research notes

A type of review article that describe recent research achievements by authors for readers unfamiliar with the research field. A Research note should be limited to 6,400 words including an abstract in English (8 printed pages\*).

#### 1.4. Product notes

Short submissions relevant to an area of vacuum science and technology, but not intended for commercial promotions. One submission should be limited to 2,500 words (3 printed pages\*).

#### 1.5. Lectures

A type of review with the intention of educating students, young scientists and engineers. Historical reviews on science, technology or industry may also be included. Lectures may be published in a series. A Lecture should be limited to 6,400 words (8 printed pages\*).

#### 1.6. Others

The editorial board of VSJ can prepare other categories of articles; reports of conferences and symposiums (3 printed pages\*), laboratory reports (3 printed pages\*), information boards (1 printed page), *etc.*

\*Extra charge (¥5,000/extra page) will be required if the article exceeds the limit of the pages.

### 2. Prohibition of double submission of manuscripts

- 2.1. It is not permitted for (part of) the authors to submit manuscripts almost identical to articles those are published in or submitted to an academic journal, even if they are written in a different language.
- 2.2. Identical manuscripts may be submitted if they have neither been published nor submitted as articles in an academic journal (*e.g.*, an annual report of a laboratory or a university), so long as the authors or VSJ possess the copyright. A reprint of the previously published articles must be attached in this case.
- 2.3. Manuscripts that have similar contents to articles those are published in or submitted to an academic journal may be submitted as manuscripts other than original papers (see 1.1), provided items featuring vacuum science and technology are detailed and stressed. The permission to reproduce copyrighted material as well as a reprint of the previously published articles must be attached in this case. The previously published articles must be cited in the manuscripts.

### 3. Procedure after receiving manuscripts

- 3.1. Manuscripts are received and dated at the VSJ editorial office.
- 3.2. Submitted manuscripts are sent to a referee. The editorial board decides acceptance in the light of the opinion of the referee. The editorial board may ask authors to revise the manuscripts in accordance with the review procedure. The editorial board may ask authors to revise the manuscripts before sending it to a referee if necessary.
- 3.3. When modifications are recommended, modified manuscripts with a list of brief answers to the referee's comments should be submitted within 6 months.
- 3.4. Manuscripts modified significantly will be regarded as a new submission.

### 4. Proof of articles

To correct mistakes caused by careless preparation of the manuscripts, proofs of articles will be sent to the authors and should be returned promptly to the editorial board of VSJ. Major alterations of the proof should be avoided.

### 5. Publication charge, color figures, and reprints

- 5.1. Publication charge will be required (except invited article). Reprints will be available in lots of 50 copies (including publication charge). The price is listed in the table...
- 5.2. If the authors wish to print color figure(s), first figure costs 50,000 yen, figures (after second) cost 10,000yen each.
- 5.3. On-line color publication (PDF file on J-STAGE) is available 1,000yen for each figure.
- 5.4. An author living in Japan can order reprints. The cost of reprints is paid by the author regardless of the category of the article, as below:

Price list for publication charge and reprints (in Japanese Yen, tax not included)

page(s)	Publication charge			Reprint (50 copies) (including publication charge)			Additional charge (50 copies)		
	non-member	member	invited	non-member	member	invited	non-member	member	invited
1	10,000	5,000	0	12,000	7,000	5,000	+2,000	+2,000	+2,000
2	15,000	10,000	0	17,000	12,000	10,000	+2,000	+2,000	+2,000
3	20,000	15,000	0	22,000	17,000	11,000	+2,000	+2,000	+2,000
4	25,000	20,000	0	27,000	22,000	12,000	+2,000	+2,000	+2,000
5	30,000	25,000	0	33,000	28,000	13,000	+3,000	+3,000	+3,000
6	35,000	30,000	0	38,000	33,000	14,000	+3,000	+3,000	+3,000
7	40,000	35,000	0	43,000	38,000	15,000	+3,000	+3,000	+3,000
8	45,000	40,000	0	48,000	43,000	16,000	+3,000	+3,000	+3,000
9	50,000	45,000	0	54,000	49,000	17,000	+4,000	+4,000	+4,000
10	55,000	50,000	0	59,000	54,000	18,000	+4,000	+4,000	+4,000

### 6. Copyright

- 6.1. The submission of manuscripts will be taken to imply that the authors agree that the copyright of their article will be transferred to VSJ when the article is accepted for publication.
- 6.2. The copyright transfer to VSJ must be agreed on the submission of a paper. Please contact the VSJ office if the complete copyright is not to be transferred.

Inquiries should be sent to the VSJ office.

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# Journal of the Vacuum Society of Japan

## Instructions for the Preparation of Manuscripts

### 1. Introduction

- 1.1. Carefully read the “Information for the Contributors” and these instructions. Authors are expected to follow the conventional writing, notation, and illustration styles. Authors should also study the form and style of the printed material in this journal. Authors are recommended to access the web site of the Vacuum Society of Japan (VSJ) at <http://www.vacuum-jp.org/>.
- 1.2. Submit the manuscripts at the web site <http://mc.manuscriptcentral.com/jvsj2/>.

### 2. Instructions for the preparation of manuscripts

#### 2.1. Format and usage of technical terms

- 2.1.1. Manuscripts should be prepared using a prescribed template in a MS-Word format available at the web site <http://www.vacuum-jp.org/EDT/TemplateE.doc>.
- 2.1.2. A title page should precede the abstract and the body of the manuscripts, followed by references, captions for figures and tables, figures, and tables.
- 2.1.3. Avoid using prevailing technical terms that are not recognized by official organizations. See JIS Z8126-1, 2, and 3 (1999) obtainable at the web site (<http://www.jisc.go.jp>). Please refer to “Information” in *Shinku* 44, No. 6 (2001) for terms recognized in the field of vacuum science and technology.
- 2.1.4. Abbreviations, such as ECR, TMP, and AES, are not permitted in titles.
- 2.1.5. Estimate the length of the manuscripts, taking the size of figures into consideration.

#### 2.2. Title page

Papers should be headed by a separate page indicating a concise but informative title followed by the name(s) of the author(s) and by the name(s) and address(es) of the laboratory at which the work was carried out. An example of a title page is given below:

<p>Recent Developments in Vacuum Science and Technology<sup>*</sup></p> <p>Kazuo SHINKU<sup>*1</sup>, Blaise PASCAL<sup>*2</sup> and Heng ZHANG<sup>*3</sup></p> <p><sup>*1</sup><i>Department of Vacuum Engineering, University of Vacuum Science and Technology,</i> <i>3-5-8 Shiba-koen, Minato-ku, Tokyo 105-0011, Japan</i></p> <p><sup>*2</sup><i>Département de physique, Université Blaise Pascal,</i> <i>34 Av. Carnot, F-63006 Clermont-Ferrand, France</i></p> <p><sup>*3</sup><i>Dipartimento di Fisica, Università degli Studi di Padova,</i> <i>via 8 Febbraio, 2, 35122 Padova, Italy</i></p> <p>(Received _____, Accepted _____)</p> <hr/> <p><sup>*</sup>Presented as an invited talk at the 50th annual symposium of the Vacuum Society of Japan, Nov. 5, 2009</p>
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An example of a title page.

Note that the family names of authors are written in capital letters.

#### 2.3. Abstract

Original papers and Reviews must have an abstract written on a separate page from the title page and the body. Articles other than Original papers and Reviews may have an abstract if necessary. The abstract should not exceed 150 words and be easy to understand when standing alone. Reference to equations, figures, tables or references is not allowed. Keep it in mind that the abstract should be written in clear English to be offered to J-STAGE, a worldwide web site (<http://www.jstage.jst.go.jp/browse/jvsj2/>).

## 2.4. Body

- 2.4.1. Start at page 3 for the body of an article with an abstract, and at page 2 for the other articles. Type the page number on every sheet of the manuscripts.
- 2.4.2. Chapters are numbered in the form 1., whereas sections and subsections are numbered in the form 1.1. and 1.1.1., respectively.
- 2.4.3. Use SI units, particularly Pa for pressure.
- 2.4.4. Symbols are written in italics to indicate quantities and in solid style to indicate units and atomic elements. Greek letters should be carefully introduced.
- 2.4.5. Express mathematical formulae and equations to ensure clear reproduction upon printing. Avoid double upper (lower) case letters and use  $\exp$  instead of  $e$  for exponential functions. In-line formulae and equations should be written in the form  $a/b$ ,  $\exp(-t/\tau)$ .
- 2.4.6. Make two or three lines available for one mathematical formula or equation. Mathematical formulae and equations are usually written in italics.

## 2.5. Figures (including photographs) and tables

- 2.5.1. The captions including the titles of the figures (and tables) should be presented on separate pages of the manuscripts. Begin with a capital letter and end with a period.
- 2.5.2. Number figures as Fig. 1, Fig. 2 . . . , and tables as Table 1, Table 2 . . . . The figure (and table) number, along with the name(s) of the author(s), should be written in a corner of each page.
- 2.5.3. All the figures and tables should be clearly referred to in the text.
- 2.5.4. The printed size of a figure can be chosen from small (8.5 cm wide) or large (17.5 cm wide). The height is limited to 25 cm in either case. Indicate S or L in a corner of each figure. The best original figures are twice as large as the printed ones. Inappropriately sized lettering on a figure may be reduced to a size less than optimum. Care should also be taken in choosing the pen width for figures. Lines in figures are frequently too fine compared with the size of the figure, resulting in problems on reduction. Shaded areas should be shown by means of cross-hatching (or a matrix of dots) rather than a continuous grey “wash”. Cross-hatching, after reduction, with a density less than ~25 lines/cm is satisfactory.
- 2.5.5. A request to print figures in color on the basis that they are essential for the presentation may be considered by the editorial board. There will be a fee for printing figures in color.
- 2.5.6. There will be a fee for figures prepared by the editorial office upon request from the author(s).
- 2.5.7. Symbols appearing in figures should match JIS Z8207·1999 (see web site <http://www.jisc.go.jp>).

## 2.6. Footnotes and list of references

- 2.6.1. Indicate <sup>\*</sup>, <sup>\*1</sup>, <sup>\*2</sup>, . . . as superscripts and prepare corresponding footnotes in the footer.
- 2.6.2. References must be in English, and they should be numbered in the order in which they first occur in the text. Reference numbers should be given in the text as superscripts with a right-handed parenthesis, *e.g.*, This is a description.<sup>5)</sup>
- 2.6.3. In the list of references, the initials and names of all authors (comma-terminated) must be given, followed by the colon-separated complete reference. The volume number must be in bold. The use of, for example, *ibid.* is not permitted. References to unpublished or not readily available work should be avoided. References should be cited with standard journal title abbreviations. Please refer to the information on the web as:
  - <https://journals.aps.org/files/styleguide-pr.pdf> and <https://journals.aps.org/files/rmpguapb.pdf>
  - [http://www.ieee.org/documents/trans\\_journal\\_names.pdf](http://www.ieee.org/documents/trans_journal_names.pdf)
  - <http://www.vacuum-jp.org/EDT/JournalTitleAbbreviation.pdf>for the list of journal title abbreviations. The journal titles with an alphabet such as “Phys. Rev. B”, “Nucl. Instrum. Methods Phys. Res. B”, and “J. Vac. Sci. Technol. A” must not include a comma before the alphabet.
  - 1) T. B. Lindemar, R. L. Pearson and K. Inoue: J. Nucl. Mater., **55** (1975) 359.
  - 2) M. Sasaki, Y. Yamada, Y. Ogiwara, S. Yagyu and S. Yamamoto: Phys. Rev. B, **61** (2000) 15653.
- 2.6.4. This journal up to Vol. 50 (published in 2007) must be cited as “Shinku”, which is the old series of J. Vac. Soc. Jpn. Please refrain from referring to the modern title of the journal in old references, *e.g.*,
  - 3) K. Suzuki: Shinku, **33** (1990) 371.All later volumes of this journal (Vol. 51 and later) must be cited as “J. Vac. Soc. Jpn.”, *e.g.*,
  - 4) M. Kogoma: J. Vac. Soc. Jpn., **51** (2008) 2.
- 2.6.5. For a citation from a book, the title of the book is in italics (or underlined with red ink), and the publisher, the place of publication, and the year of publication are enclosed in parentheses in accordance with the

following examples:

5) O. Kubaschewsky and C. B. Alock: *Metallurgical Thermochemistry* (Pergamon Press, Oxford, 1979) p. 65.

6) M. Nakamura and Y. Nakagawa: in *Handotai* (Semiconductor), ed. NameOfEditor (Shokabo, Tokyo, 1985) 2nd ed. Vol. 2, Chap. 2, p. 85 [in Japanese].

**2.6.6.** For the proceedings of a conference, give the authors (colon-terminated), the title of the proceedings (in italics), the place and year of the conference, the volume (in bold) followed by the publisher, the place of publication, and the year in parentheses in accordance with the following examples:

7) K. Kajimura: *Proc. 3rd. Int. Symp. Reinstoffe in Wissenschaft und Technik*, Dresden, 1985 (Akademie-Verlag, Berlin, 1986) p. 166.

8) K. Tasaka: *Proc. 7th Int. Conf. on Emerging Nucl. Energy Systems*, Chiba, Japan, 1993, **2** (1994) 203.

Note that the place and year of publication are omitted when they are the same as those of the conference.

**2.6.7.** For Web/Internet references, the full URL should be given with date when the URL was last accessible. Any further information, if available (author names, page title, dates, reference to a source publication, etc.), should also be given. The title of the page is in italic, e. g.,

9) The Vacuum Society of Japan, <http://www.vacuum-jp.org>, (Last accessed: 2014-01-01).

10) The Japan Society of Applied Physics, *How to write a reviewer report*, [http://apex.jsap.jp/pdf/how\\_to\\_write\\_rev\\_rep.pdf](http://apex.jsap.jp/pdf/how_to_write_rev_rep.pdf) (published May 2013, Last accessed: 2014-01-01)

## 2.7. Use of English

The authors are responsible for the use of English. It is highly recommended to get the manuscripts revised by native English speakers before submission.

## 3. Proofreading of the article

**3.1.** Proofreading of the article should be carried out carefully on the responsibility of authors.

**3.2.** Major alterations of the proof should be avoided.

**3.3.** The title and the name of authors must be proofread carefully.

**3.4.** The present address should be added in the footnote when the affiliation of authors has been changed.

**3.5.** Confirm that the following points those are easy to mistake are correctly printed: Upper- and lower-case letters, Greek letters, bold, italics, and characters those may be misinterpreted.

**3.6.** Confirm that the characters in the figures and tables, the position of the figures and tables, and captions of the figures and tables are correctly printed.

**3.7.** When references are published after sending the final version of the manuscripts, the volume number, published year, and page number must be added (see, **2.6**).

**3.8.** Confirm that the formats of the references are correctly printed in English (see, **2.6**). Confirm that the name of authors, journal/book title, volume number, published year, and page are correctly printed. Note that references in Japanese or those contain a typographical error will be not linked in the J-STAGE (<http://www.jstage.jst.go.jp/browse/jvsj2>).