Regular Paper, Note, Rapid Communication, Review

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Printing Technologies 2020

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)

[Authors’ names]

Koji TANAKA,1 Taro GAZOU,2 and Hanako FUJIYAMA\*2

Notes: Surname (family name) should be written in capital letters. In multiple authors, the authors’ affiliations should be indicated by numerical superscript (1, 2, 3, …). In case of single-authored paper or all authors are in the same affiliation, the numerical superscript is not necessary.

The corresponding author should be marked by an asterisk (\*) even in case of single-authored paper.

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[Abstract] (100–150 words)

In the current consumer market of the xxxxx \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

[Keywords] Around five words

Please indicate four to five keywords or phrases in alphabetical order, separated by commas.

\*\*\*\*\*\*, \*\*\*\*\*\*, \*\*\*\*\*\*, \*\*\*\*\*\*, \*\*\*\*\*\*

(With the first word of each term capitalized.)

(From here, please provide the main body of the article.)

The number of words on a single page in the Journal is approximately 1000. Figures and tables will be inserted in the texts. A figure or a table is equivalent from 140 to 280 words.

The numbers of pages of the articles are as follows: Original Paper is limited within 10 pages, Note is within two pages, and Rapid Communication is within four pages. Tutorial Review, Review, and Technical Information are not limited, but are supposed to follows Original Paper.

For example, an article with eight pages corresponds to approximately 8000 words (8\*1000 words). If the article includes 10 figures and/or tables, it equivalently corresponds 210\*10 = 2100 words. Therefore, the actual required number of words of the articles is 8000 - 2100 = 5900 words.

**1. Introduction** (chapters and sections: the first letter of **each word** is capitalized)

\*\*\*\*\*\*\*\*\*\*\*. AAA properties of BBBB are shown in Fig. 1. (Refer each figure as “Fig.1” etc. in the text.)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*. Figure 2 shows CCCC spectra of DDDD. (When "Fig." is placed at the beginning of a sentence, it should be written as "Figure.") \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

**2. Expertiment**

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2.1 Apparatuses and Equipments

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*2,3).

2.2 Measurements of Imaging Properties

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2.3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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**3. Result and Discussion**

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3.1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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3.2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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**4. Conclusion**

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**References** (please confirm detailed style of reference lists in next page and “writing guideline”)

1) A. AAAA, B. BBBB, C. CCCC, and D. DDDD, “Title of the manscript in sentence style,” Journal of the Imaging Society of Japan, 41, pp. \*\*\*-\*\*\* (2002), doi.\*\*\*\*\*\*\*\*\*\*.

2) K. Nakajima, “Current bubble jet technology,” Journal of the Imaging Society of Japan, **41**, pp. 159-166 (2002) [in Japanese].

3) Y. Harada, “Measurement of viscosity process of ink droplets landed on media,” Proceedings of the 123rd Annual Conference of the Imaging Society of Japan (Imaging Conference Japan 2019), IJ2-03, pp. 39-42 [in Japanese].

[References]

All bibliographical references should be numbered and listed at the end of the manuscript. The key points to describe the references and typical examples of the references are shown below. It is detailed in Chapter 4 of “writing guideline” (in Japanese) for submitting to the Journal of imaging society of Japan.

＜Key points＞

(a) The sentence capitalization style is, as a rule, a style in which only the first letter of the **first word** is capitalized. Title of “articles” published in scientific journals, electronic journals, preprints, and conference proceedings conform to this style of writing. Names of patents, standards, and website documents also conform to this style.

(b) The headline capitalization style is, as a rule, a style in which the first letter of **each word** is capitalized. Journal names, book names, and conference names conform to this style.

(c) Separate each bibliographical element [for example, author name, article name, journal name, volume number, reference pages, published date, DOI (digital object identifier), etc.] with a comma and a space, and add a period at the end of the bibliographical element. The information (for example, internet address, accessed date, etc.) of URL (uniform resource locator) is note item. Please write a space after the period at the end of the bibliographical element, and write the note item such as “URL, (accessed 20XX-MM-DD).”

(d) Authors' names should be listed in the order of first name, middle name, and family name. First and middle names should be written using initials and a period. Insert a space after a period.

(e) In the case of Japanese literature, please add [in Japanese] at the end of the bibliographical element. For bibliographical elements that do not have an official English name, please write them in romanized spelling.

- Scientific journals and research reports

Basic format:

Authors, “Title of the article,” Journal Name, **volume in bold** (issue number), pp. start page-end page (published year), DOI.[in language (if needed)].

1) T. Gan, T. Nagao, T. Mitsuhashi, T. Suzuki, and N. Nakayama, “Development of transfer process capable of using various media for liquid electrophotography utilizing numerical analysis,” Journal of the Imaging Society of Japan, 57, pp. 677-684 (2018), https://doi.org/10.11370/isj.57.677.

- Electronic journals

Basic format:

Authors, “Title of the article,” Journal Name, **volume in bold** (issue number), pp. start page-end page (year), DOI. URL, (accessed date**,** only if URL is listed**)**.

2) K. Nakajima, “Current bubble jet technology,” Journal of the Imaging Society of Japan, **41**, pp. 159-166 (2002), doi:10.11370/isj.41.159 [in Japanese].

- Preprints

Basic format:

Authors, “Title of the preprint paper,” Name of Publisher or server, preprint number, pp. start page-end page, (year), DOI. URL (accessed date).

3)Y. Suenaga, T. Nagase, and H. Naito, “Interpretation of the modulus spectra of organic field-effect transistors with electrode overlap and peripheral regions: Determination of the electronic properties of the gate insulator and organic semiconductor,” arXiv.org, 2001.03957, pp. 1-16 (2020). https://arxiv.org/abs/2001.03957, (accessed 2020-09-23).

- Books

Basic format:

Authors, “Name of the Book,” number of editions, Publisher (year), the total pages p.

4) R. M. Schaffert, “Electrophotography,” Second Edition, Focal Press (1975), 989 p.

- Scientific conference proceedings (collection papers)

Basic format:

Authors, “Title of the presentation paper,” Proceedings of the Conference (Abbreviated Conference Name), organizer of the conference (year), presentation number, pp. start page-end page.

5) Y. Harada, “Measurement of viscosity process of ink droplets landed on media,” Proceedings of the 123rd Annual Conference of the Imaging Society of Japan (Imaging Conference Japan 2019), IJ2-03, pp. 39-42 [in Japanese].

- Patents

Basic format:

Applicant names, “Title of the patent,” Country of the Patent Application, the patent number, (published year or registered year), the total number of pages p.

6) W. J. Nowak, J. A. Alvarez, R. A. Clark, M. F. Zona, C. Liu, and P. J. McConville (Xerox Corporation), “Electrostatic 3-D printer controlling layer topography using aerosol applicator,” United States Patent Application Publication, US 2018-0361661 A1 (2018), 36 p.

- Standards

Basic format:

Standard number: Published year, “Title of the standard,” Publisher, the total number of pages p.

7) JIS Z 9095: 2011, “Graphical symbols--safety signs--safety way guidance systems (SWGS)- Phosphorescence type,” Japanese Standards Association, 36 p. [in Japanese].

- Web sites

Basic format:

Publisher Name, “Title of the website.” URL, (accessed 20xx-MM-DD).

8) The Imaging Society of Japan, “How to post to the Journal of the Imaging Society of Japan.” <http://www.isj-imaging.org/ISJ_journal/e-submission(e).html>, (accessed 2020-05-10).

[Figure captions and table captions]

- Figure captions (titles and descriptions) should be provided at the end of the main body.

Example: Fig. 1 Toner image transfer model.

Fig. 2 Relationship between transfer ratio and transferred charge density on transfer material.

Fig. 3 Cross-sectional view of laser printer.

Fig. 4 Xxxxxxx of xxxxx xxxxxxx.

Fig. 5 Xxxxxxx of xxxxx xxxxxxx.

- Table captions (titles and descriptions) should be also provided at the end of the main body.

Example: Table 1 Optimum toner charge-to-mass ratio.

Table 2 Optimum toner charge-to-mass ratio for three kinds of photoconductors.

[Personal biographies of Author (s)]

Koji TANAKA

He received the B.Sc. and M.E. degrees from XXXX University in 1982 and 1984, respectively.

In 1985, he joined XXXX Company. Since then, he has researched and developed electrophotography process.

Taro GAZOU

.........

Hanako FUJIYAMA

.........

[Portrait(s)]

Please enclose a digital file of the portrait(s) of the Author (s). In the case of printed photograph, it must be provided with the Author’s name(s) written on backside.

Koji TANAKA

Photo

Taro GAZOU

.........

Hanako FUJIYAMA

.........

Instruction for the figures

* According to the following instruction, provide appropriate figures. Captions are not required, otherwise the figure number must be written as “Fig. 1” in each figure. Only one figure must be appeared in one page (to prevent from degradation in printing, make figures in higher resolution as possible). The file in the jpg, tiff, or pdf format is desirable. Fig. 1 and Fig. 2 are the sample figures.
* In the printed journal, the manuscripts will be printed in black and white, except in cases where the use of color will enhance understanding. Therefore, when using colors in the figures and tables, please take into account the ability to differentiate by brightness rather than by hue. In the web version, the color figures are available for free of charge.

[Instructions]

1) Use English (American usage and spelling) in figures.

2) Refer each figure as Fig.1 etc. in the text. If the figure includes multiple parts, please indicate each part of the figure as Fig. 1(a), Fig.(b), etc. When "Fig." is placed at the beginning of a sentence, it should be written as "Figure."

3) Captions should follow the "sentence capitalization style;" i.e. the first letter of the terms or sentences in the figure must be capitalized. (Example: Transfer roller, etc.)

4) Add a period at the end of figure caption. (Example: Fig.1 Toner image transfer model.)

5) The horizontal and vertical axes should have 4 to 5 scales.

6) The vertical and horizontal axis labels should have a physical quantity symbol following the physical quantity name, with the unit symbol in parentheses. It is acceptable to use the notation presented with the ratio of the physical quantity symbol to the unit symbol, which is recommended by the International System of unite (SI)，or the notation presented with the ratio added with the physical quantity names. These notation systems should be consistent throughout the paper.

Good example: “Surface resistivity *R* (108 Ω cm),”

“M/ (A m-1),” “Magnetization, M/ (A m-1)”

Bad example: “M”, “Magnetization/ (A m-1)”

7) See Fig. 2 (a), an example of a well-prepared line drawing, and Fig. 2 (b), a poorly prepared drawing.

i) Boundary lines or outlines are not required.

ii) Outer lines surrounding legends are not required.

iii) Locate the legend in the area which composed of vertical axis, horizontal axis and opposite two axes.

iv) Axis lines must be drawn thinner than data lines.

8) Describe the number representing the power using superscript such as 1012.

9) A space must be provided between the number and the unit symbol. (Example: 10 mm, 10 kg; space is also provided to “%” and “°C,” e.g. 95 %.)

10) The general rules concerning the use of an italic (sloping) font or roman (upright) font are presented in the IUPAC Green Book.

Overall rule: Symbols representing physical quantities (or variables) are written in ***italics***, but symbols representing units and descriptive terms (such as a label) are **roman**.

Additional character with superscripts/subscripts: Overall rule above is adaptable for the superscripts/subscripts attached to physical quantity symbols or mathematical variables. Basically, superscripts/subscripts should be in **roman**. Unit symbols are also in **roman**. However, subscripts representing physical quantities or variables such as ordinal numbers (called, ”running number”) must be written in ***italics***.

Example:

Applied voltage *V*in (quantity symbol: italic, subscript: roman), Constant pressure heat capacity *Cp* (quantity symbol: italic, subscript: italic to represent physical quantity), Partial pressure *Pi* of the *i*-th substance (quantity symbol: italic, subscript: italic because it indicates the ordinal number), 5 mm (unit symbol: roman)

11) Symbols for a variable vector quantity must be written in bold and italic style.

12) In general, n (nano), m (milli), k (kilo), etc. which represent the power of the number are written in lowercase except for T (tera), G (giga), etc.

13) The unit symbol must be written correctively including uppercase and lowercase letters, in accordance with the JIS Z8000 standard group regulations specified by the International System of Units (SI). It is detailed in section 2.8 of “writing guideline” for submitting to the journal of imaging society of japan (in Japanese). The following unit symbols are frequently mistaken. For example, “s”（not “sec”）indicates seconds, “deg” indicates angles (“degree” is the unit name; the “deg.” symbol which is an abbreviation for degrees cannot be used as unit symbol) , and “arbitrary unit” is abbreviated as “arb. unit” (“a.u.” cannot be used, because it is confused with atomic unit or astronomical unit).

14) Description of the physical quantity name (i.e. parameter name), the physical quantity symbol for parameter name, and unit symbol is as follows: “Surface resistivity *R* (Ω cm)”.

15) Only the first letter of the first word in a term is capitalized in case the term includes multiple words.

Fig. 1



Fig. 2



(a) Well-prepared drawing



(b) Poorly prepared drawing

Instruction for the tables

* According to the following instruction, provide appropriate tables. Captions are not required, otherwise the figure number must be written as “Table 1” in each figure. Only one figure must be appeared in one page (to prevent from degradation in printing, make figures in higher resolution as possible). The file in the jpg, tiff, or pdf format is desirable. Table 1 is the sample figures.
* In the printed journal, the manuscripts will be printed in black and white, except in cases where the use of color will enhance understanding. Therefore, when using colors in the figures and tables, please take into account the ability to differentiate by brightness rather than by hue. In the web version, the color figures are available for free of charge.

[Instructions]

1) Use English (American usage and spelling) in tables.

2) Refer each table as Table1 etc. in the text.

3) Captions should follow the "sentence capitalization style;" i.e. the first letter of the terms or sentences in the table must be capitalized. (Example: Charge-to-mass ratio)

4) Add a period at the end of table caption. (Example: Table 1 Toner image transfer model.)

5) See Table 1, an example of a well-prepared table.

i) Boundary lines or outlines are not required.

ii) Vertical lines are not required.

III) Only essential horizontal lines should be listed.

6) For other items, follow the “Instruction for figures.” Replace “figure” with “table.”

Table 1

