

LETTER

# Instructions/template for preparing your ELEX manuscripts (As of April, 2024)

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**Abstract** Use this instruction file as a template for preparing your ELEX articles with Microsoft Word. It is essential to adhere to this template because your manuscripts are printed as submitted with minimal editing/formatting by publisher. Do not modify any formats or styles. Use latest Adobe Acrobat to attach movie pictures in your PDF version of manuscript. Visit <http://www.elex.ieice.org/> for the latest version of ELEX template.

**Keywords:** ELEX, template, up to six words

**Classification:** XYZ (choose one from Table II)

## 1. Introduction

This template provides formats and styles for ELEX manuscript. It is essential to adhere to this template because your manuscript will be published “as is” with minimal copy-editing by the publisher. Do not modify formats (font, font size, paper size, printing area, line space, etc.). Keep one copy of this template untouched for your reference and prepare your manuscript on another copy.

## 2. Software and article charge

Microsoft Word and LaTeX compatible files are officially acceptable for ELEX submission. This template file is designed for MS Word. LaTeX style files can be found elsewhere [4]. Article charge depends on the number of printed pages and the electronic file format:

1. JPY 55,000 3 or fewer printed pages in Latex format
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3. JPY 110,000 4 to 6 printed pages in Latex format
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A display item of a movie picture requires an extra cost of JPY 3,300 per movie file. If all authors are non-members, we request an additional JPY 20,000 for letters submitted from June 1st, 2021.

## 3. Manuscript length

The number of pages is limited by 6. The first page contains paper title, author list, affiliation(s), 100-word-abstract, key-

words, and references. Including multimedia files (movie graphics) in a final PDF file is possible, if any, by using attachment function of Adobe Acrobat.

## 4. Typographical style

Consult with Table I on the detail typographical styles.

**Table I** Margin specifications

Article title	Times New Roman 17pt Bold
Author Name	Times New Roman 10pt Bold
Author Affiliation	Times New Roman 9pt
Author Address	Times New Roman 9pt
Author Contact E-mail	Times New Roman 9pt Blue
Section Heading (incl. “Abstract” and “Keywords”)	Times New Roman 8pt Blue
Abstract Body	Times New Roman 8pt
Reference Body	Times New Roman 8pt
Section Title	Times New Roman 10pt Bold
Text Body	Times New Roman 10pt
Figure & Table Label in Caption	Times New Roman 8pt Bold
Figure & Table Caption Body	Times New Roman 8pt
Acknowledgement Body	Times New Roman 10pt

### 4.1 Title

Title should start flush left. Only the first letter in the title is capitalized (this is true to section titles and figure captions) Avoid including abbreviations unless definitely needed.

### 4.2 Author name and affiliation

Author names should start flush left. Spell out both first and last names but initial middle name. Use one blank line between authors from different affiliations.

### 4.3 Abstract

The abstract should be complete sentence(s) that is limited to approximately 100 words. It should be a concise summary of the paper that clearly conveys the problem, the methods, and the conclusions to readers. It also should include appropriate keywords for the convenience of computer search. Do not include reference numbers.

### 4.4 Keywords

Maximum six (6) keywords are listed. Carefully choose appropriate keywords for your paper being correctly spotted by computerized search.

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**Table II** ELEX category classification

Integrated optoelectronics (lasers and optoelectronic devices, silicon photonics, planar lightwave circuits, polymer optical circuits, etc.)
Optical hardware (fiber optics, microwave photonics, optical interconnects, photonic signal processing, photonic integration and modules, optical sensing, etc.)
Electromagnetic theory
Microwave and millimeter wave devices, circuits, and hardware
THz devices, circuits and modules
Electron devices, circuits and modules (silicon, compound semiconductor, organic and novel materials)
Integrated circuits (memory, logic, analog, RF, sensor)
Power devices and circuits
Micro- or nano-electromechanical systems
Circuits and modules for storage
Superconducting electronics
Energy harvesting devices, circuits and modules
Circuits and modules for electronic displays
Circuits and modules for electronic instrumentation
Devices, circuits and hardware for IoT and biomedical applications

#### 4.5 Classification

Category index in the classification is used by the Editors when directing your manuscript to corresponding Associate Editor. Furthermore it is displayed in ELEX website and in archives for readers' convenience. Choose most relevant category from Table II. The Editorial Committee may change the subject index that authors select, if the Editorial Committee judges that the authors' selection is not the best. Note that the index might be changed without notification.

#### 4.6 Main text and headings

Single column format is applied throughout the manuscript. The first line of the first paragraph of each section start flush left. Section headings are numbered consecutively in Arabic numbers. Subsection headings are numbered in Arabic numbers to the right of the decimal point (like this 4.5).

#### 4.7 Equations

Equations are centered with the equation number (in Arabic) appearing at the right-hand margin, in parenthesis:

$$T_M^\phi = 2 \times \frac{Gwt^3}{3l} \phi \left( 1 - \frac{192}{\pi^5} \frac{t}{w} \tanh \frac{\pi w}{2t} \right). \quad (1)$$

Long equations can be folded in several lines but avoid leading to misinterpretation. Equations are referenced in the main text as Eq. (1).

#### 4.8 References

References should appear on the last page of the paper in the orders in which they are referred in the main text. See the examples in this template for different styles for citing a journal paper, a proceeding paper, a paper in review, a whole book, a contributed chapter in a book, a thesis, a patent, and a website. It is authors' responsibility to provide correct information of references. Use a pair of square bracket to cite a reference like this [4]. Multiple references can be cited like this [4–7]. More detailed information is given about reference formats on the ELEX website in the Authors tab.

#### 4.9 Acknowledgements

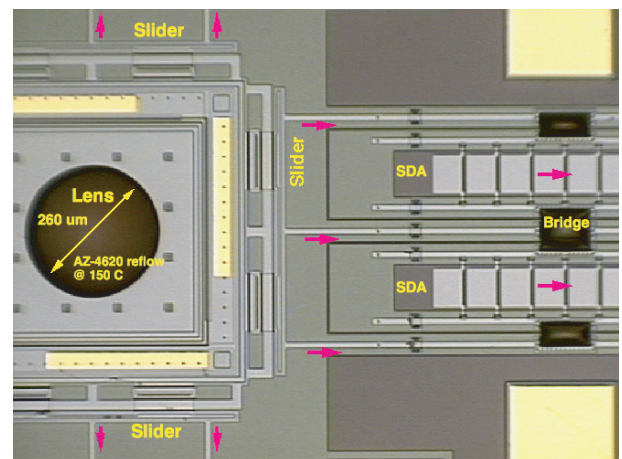
Acknowledgements, if any, can be placed at the end of the manuscript.

#### 5. Display items (figures, tables, and movies)

You may include display items in a final PDF version of your manuscript but do not exceed 4 MB file size.

##### 5.1 Figures

Figures should be placed in the document. Do not submit figures in separate files. Use LaTeX environment “figure” (`\begin{figure}`–`\end{figure}`) to place frames for figures. Place your figure as close to as the main text where it is referred. Figure position in published paper may differ from that in your original file, when publisher adjusts the final format. Figures are numbered in Arabic numerals. Figures are referred as Fig. 1 even at the beginning of a sentence. Figure captions are placed under corresponding figures.




**Fig. 1** Include all graphics in the manuscript file. Do not submit figures in separate files.


##### 5.2 Tables

Tables are placed in the document in the same manner as figures. Tables are referred in Roman numbers such as Table I, without abbreviating to Table I. Table captions are placed above the corresponding tables.

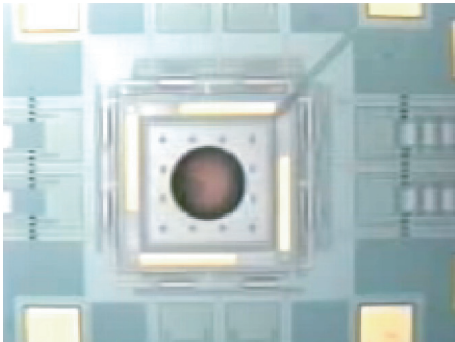
##### 5.3 Movie files

It is one of the ELEX features that author could include movie files (mov or mpg) in their final PDF manuscript. Use file attachment tool of Adobe Acrobat (not Acrobat Reader):

1. Select the file attachment tool .
2. Select the location where the movie file is placed (in the figure box).
3. Select the movie file from a dialog box.
4. In the comment properties, set the desired options, if needed.
5. Click OK

Movie files are represented by an Adobe Acrobat icon (like this: ) and activated by clicking on it. To help readers, you need to place a snapshot of the movie file and

place it as a figure. Notice readers that a movie file has been attached (see Fig. 2).



**Fig. 2** Place a snapshot from the movie file to display for readers. Movie can be activated by clicking on the icon. Movie file attached.

## 6. ORCID (Open Researcher and Contributor ID)

Authors who would like to include their Open Researcher and Contributor ID (ORCID) in the published manuscript are required to upload a text file named "ORCID.txt" including the list of name and ORCID of each author in the following format:

Name of author 1, ORCID of author 1

Name of author 2, ORCID of author 2

...

Note that ORCID will not be included in advanced publication articles.

## 7. Conclusion

To submit manuscript to ELEX, authors should visit an IEICE website ([https://review.ieice.org/regist/regist\\_baseinfo\\_e.aspx](https://review.ieice.org/regist/regist_baseinfo_e.aspx)) to complete a Manuscript Information Entry Form and to upload the following items: a PDF file for review; an electronic file of manuscript in either LaTeX or MS Word; original art work in separate electronic files. Art-file formats are restricted. Only the Encapsulated PostScript (EPS) format file is allowed for graphics. The Moving Picture Experts Group (MPEG) format file or MOV format file is acceptable for movies. Self-descriptive file names such as fig1.eps and fig2.mpg are preferred. Authors are also requested to select the subject index (code and field) best fitting manuscript from the candidates. The index is used by the IEICE Publishing Office when directing manuscript to corresponding Associate Editor. Furthermore it is displayed in ELEX website and in archives for readers' convenience. The Editorial Committee may change the subject index that authors select, if the Editorial Committee judges that the authors' selection is not the best.

## Acknowledgments

Your acknowledgements to co-workers and financial sponsors are placed here.

A. Suggestion for authors preparing multi-color display items

Color figures or movies can be included in ELEX manuscripts. Authors, however, should be reminded that some reviewers/readers might be colorblind. Authors are kindly advised to consider the following suggestions when preparing figures or movies:

1. Avoid using a combination of red and green. Use magenta (purple) and green instead.

2. Do not overuse colors in the graphs but consider using different hatchings, shapes, line types (solid, dotted or dashed) or symbols for different curves.

3. Note that red color does not appear bright or vivid for colorblind people. Avoid using red characters or symbols for the purpose of highlighting.

For further information, see this webpage:

<http://jfly.iam.u-tokyo.ac.jp/color/index.html>

## References

- [1] ELEX strongly recommend authors to cite 30 or more references.
- [2] If reference has DOI, it should be included.
- [3] Please check following expressions.
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