

L^AT_EX Template for Preparing an Article for I524

AUTHOR ONE^{1,2,3}, AUTHOR TWO^{2,*}, AND AUTHOR THREE¹

¹Publications Department, The Optical Society (OSA), 2010 Massachusetts Avenue NW, Washington D.C., 20036

²School of Science, University of Technology, 2000 J St. NW, Washington DC, 20036

³School of Optics, University of Technology, 2000 J St. NW, Washington DC, 20036

*Corresponding author: email@my-email.com

November 30, 2016

This template can be used to prepare a research article for I524. Note that this template can be run from your own T_EX system or within the cloud-based [Overleaf](#) system or [Sharelatex](#) systems.

© 2016 <https://creativecommons.org/licenses/>. The authors verify that the text is not plagiarized.

Keywords: Cloud, I524

<http://dx.doi.org/10.1364/ao.XX.XXXXXX>

1. INTRODUCTION

This template is designed to assist with creating an article for I524. The page length is typically done without images. Thus if you have images in your report, please add additional content to offset the space captured by images. We do not check exactly, so there is no reason to contact us if you are a paragraph short, but if you are half a page short you may add quality content.

2. EXAMPLES OF ARTICLE COMPONENTS

The sections below show examples of different article components.

3. FIGURES AND TABLES

It is not necessary to place figures and tables at the back of the manuscript. Figures and tables should be sized as they are to appear in the final article. Do not include a separate list of figure captions and table titles.

Figures and Tables should be labelled and referenced in the standard way using the `\label{}` and `\ref{}` commands.

A. Sample Figure

Figure 1 shows an example figure.

B. Sample Table

Table 1 shows an example table.

4. SAMPLE EQUATION

Let X_1, X_2, \dots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $\text{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_i^n X_i \quad (1)$$

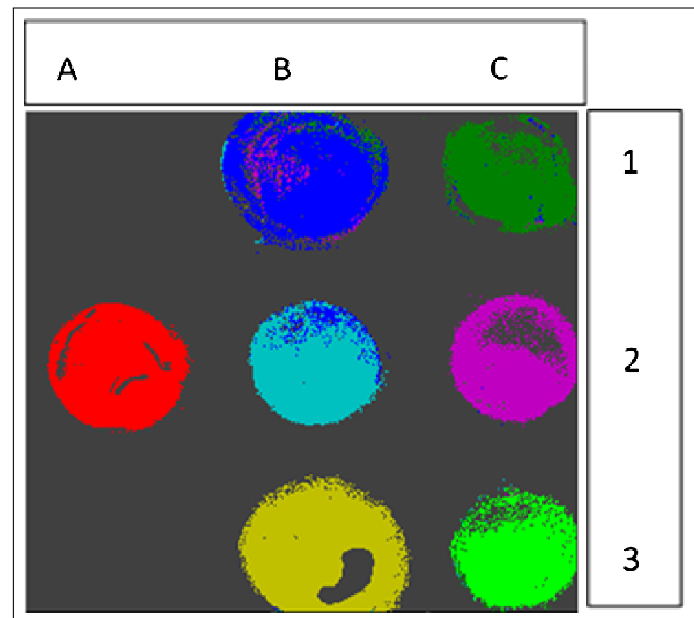


Fig. 1. False-color image, where each pixel is assigned to one of seven reference spectra.

Table 1. Shape Functions for Quadratic Line Elements

local node	$\{N\}_m$	$\{\Phi_i\}_m$ ($i = x, y, z$)
$m = 1$	$L_1(2L_1 - 1)$	Φ_{i1}
$m = 2$	$L_2(2L_2 - 1)$	Φ_{i2}
$m = 3$	$L_3 = 4L_1L_2$	Φ_{i3}

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

5. SAMPLE ALGORITHM

Algorithms can be included using the commands as shown in algorithm 1.

Algorithm 1. Euclid's algorithm

```

1: procedure EUCLID( $a, b$ )           ▷ The g.c.d. of  $a$  and  $b$ 
2:    $r \leftarrow a \bmod b$ 
3:   while  $r \neq 0$  do               ▷ We have the answer if  $r$  is 0
4:      $a \leftarrow b$ 
5:      $b \leftarrow r$ 
6:      $r \leftarrow a \bmod b$ 
7:   return  $b$                        ▷ The gcd is  $b$ 

```

Algorithm 2. Python example

```

1  for i in range(0,100):
2    print i

```

6. SUPPLEMENTAL MATERIAL

You can include an appendix with important information and additional figures if needed. However they must be referenced and follow the same guidelines as in the main text. All materials must be associated with a figure, table, or equation or be referenced in the results section of the manuscript. (1) 2D and 3D image files and video must be labeled "Visualization," not "Movie," "Video," "Figure," etc. (2) Machine-readable data (for example, csv files) must be labeled "Data File." Number data files and visualizations consecutively, e.g., "Visualization 1, Visualization 2..." (3) Large datasets or code files must be placed in an open, archival database. Such items should be mentioned in the text as either "Dataset" or "Code," as appropriate, and also be cited in the references list. For example, "see Dataset 1 (Ref. [1]) and Code 1 (Ref [2])." Here are examples of the references:

A. Sample Dataset Citation

1. M. Partridge, "Spectra evolution during coating," figshare (2014) [retrieved 13 May 2015], <http://dx.doi.org/10.6084/m9.figshare.1004612>.

B. Sample Code Citation

2. C. Rivers, "EpiPy: Python tools for epidemiology" (Figshare, 2014) [retrieved 13 May 2015], <http://dx.doi.org/10.6084/m9.figshare.1005064>.

7. FUNDING INFORMATION

Funding information should be listed in a separate block preceding any acknowledgments. List just the funding agencies and any associated grants or project numbers, as shown in the example below:

National Science Foundation (NSF) (1263236, 0968895, 1102301); The 863 Program (2013AA014402).

The acknowledgments may contain any information that is not related to funding:

The authors thank H. Haase, C. Wiede, and J. Gabler for technical support.

Do not use Funding Information or Acknowledgment headings.

8. REFERENCES

The best programs to manage your references is jabref or emacs. You can edit the references and verify them with them for format errors. To cite them use the citation key. You can add multiple bib files to the bibliography command separated by comma.

Add citations with the cite command. See [1–3].

REFERENCES

1. P Forster, V Ramaswamy, P Artaxo, T Bernsten, R Betts, D Fahey, J Haywood, J Lean, D Lowe, G Myhre, J Nganga, R Prinn, G Raga, M Schulz, and R V Dorland. Changes in atmospheric constituents and in radiative forcing. In S Solomon, D Qin, M Manning, Z Chen, M Marquis, K B Averyt, M Tignor, and H L Miler, editors, *Climate Change 2007: The Physical Science Basis. Contribution of Working Group 1 to the Fourth assesment report of Intergovernmental Panel on Climate Change*. Cambridge University Press, 2007.
2. Optical Society. OSA Publishing. <http://www.osapublishing.org>.
3. Yaxin Zhang, Shen Qiao, Linlin Sun, Qi Wu Shi, Wanxia Huang, Ling Li, and Ziqiang Yang. Photoinduced active terahertz metamaterials with nanostructured vanadium dioxide film deposited by sol-gel method. *Opt. Express*, 22(9):11070–11078, May 2014.