

Universal manuscript template for Optica Publishing Group journals

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

¹Peer Review, Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

²Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

³Currently with the Department of Electronic Journals, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

*opex@optica.org

Abstract: L^AT_EX manuscripts submitted to Optica Publishing Group journals may use these instructions and this universal template format. The template simplifies manuscript preparation and eases transfer between journals. *Applied Optics*, JOSA A, JOSA B, *Journal of Optical Communications and Networking*, and *Photonics Research* authors should use the length-check template if a precise length estimate is needed. *Optics Letters* authors and authors of short *Optica* articles are encouraged to use the length-check template. Authors using this universal template will still need to adhere to article-length restrictions based on the final, published format.

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1. Introduction

Adherence to the specifications listed in this template is essential for efficient review and publication of submissions. Proper reference format is especially important (see Section 8).

2. Multiple corresponding authors

There are two options for indicating multiple corresponding authorship, and they are formatted quite differently. The first format would be as follows and uses an asterisk to denote one of the authors:

```
\author{Author One\authormark{1,3} and Author Two\authormark{2,4,*}}  
  
\address{\authormark{1}Peer Review, Publications Department,  
Optica Publishing Group, 2010 Massachusetts Avenue NW,  
Washington, DC 20036, USA\\  
\authormark{2}Publications Department, Optica Publishing Group,  
2010 Massachusetts Avenue NW, Washington, DC 20036, USA\\  
\authormark{3}xyz@optica.org}  
  
\email{\authormark{*}opex@optica.org}
```

This format will generate the following appearance:

AUTHOR ONE^{1,3} AND AUTHOR TWO^{2,4,*}

¹Peer Review, Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

²Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

³xyz@optica.org

43 *opex@optica.org

44 The second format forgoes the asterisk and sets all email addresses equally within the affilia-
45 tions. Please note that this format does not use the \email{} field at all.

```
46 \author{Author One\authormark{1,3} and Author Two\authormark{2,4}}  
47  
48 \address{\authormark{1}Peer Review, Publications Department,  
49 Optica Publishing Group, 2010 Massachusetts Avenue NW,  
50 Washington, DC 20036, USA\\  
51 \authormark{2}Publications Department, Optica Publishing Group,  
52 2010 Massachusetts Avenue NW, Washington, DC 20036, USA\\  
53 \authormark{3}xyz@optica.org\\  
54 \authormark{4}opex@optica.org}
```

55 This format will generate the following appearance:

56 **AUTHOR ONE^{1,3} AND AUTHOR TWO^{2,4}**

57 ¹Peer Review, Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW,
58 Washington, DC 20036, USA

59 ²Publications Department, Optica Publishing Group, 2010 Massachusetts Avenue NW, Washington, DC
60 20036, USA

61 ³xyz@optica.org

62 ⁴opex@optica.org

63 These are the preferred formats for multiple corresponding authorship, and either may be
64 used.

65 3. Abstract

66 The abstract should be limited to approximately 100 words. If the work of another author is
67 cited in the abstract, that citation should be written out without a number, (e.g., journal, volume,
68 first page, and year in square brackets [Opt. Express **22**, 1234 (2014)]), and a separate citation
69 should be included in the body of the text. The first reference cited in the main text must be [1].
70 Do not include numbers, bullets, or lists inside the abstract.

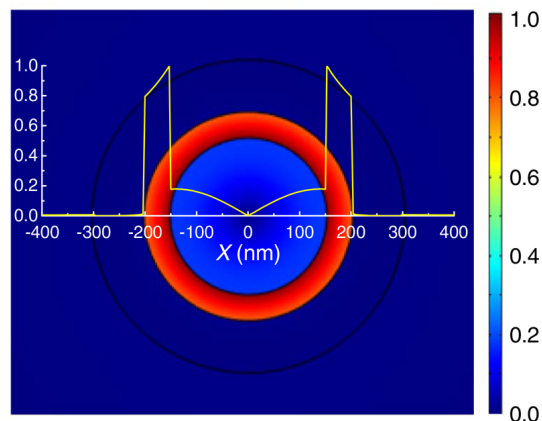


Fig. 1. Sample caption (Fig. 2, [1]).

71 **4. Assessing final manuscript length**

72 The Universal Manuscript Template is based on the Express journal layout and will provide
73 an accurate length estimate for *Optics Express*, *Biomedical Optics Express*, *Optical Materials*
74 *Express*, and our newest title *OSA Continuum*. *Applied Optics*, JOSAA, JOSAB, *Optics Letters*,
75 *Optica*, and *Photonics Research* publish articles in a two-column layout. To estimate the final
76 page count in a two-column layout, multiply the manuscript page count (in increments of 1/4
77 page) by 60%. For example, 11.5 pages in the Universal Manuscript Template are roughly
78 equivalent to 7 composed two-column pages. Note that the estimate is only an approximation, as
79 treatment of figure sizing, equation display, and other aspects can vary greatly across manuscripts.
80 Authors of Letters may use the legacy template for a more accurate length estimate.

81 **5. Figures, tables, and supplementary materials**

82 *5.1. Figures and tables*

83 Figures and tables should be placed in the body of the manuscript. Standard L^AT_EX environments
84 should be used to place tables and figures:

```
85 \begin{figure} [htbp]  
86 \centering\includegraphics[width=7cm]{osafig1}  
87 \caption{Sample caption (Fig. 2, \cite{Yelin:03}).}  
88 \end{figure}
```

89 *5.2. Supplementary materials in Optica Publishing Group journals*

90 Our journals allow authors to include supplementary materials as integral parts of a manuscript.
91 Such materials are subject to peer-review procedures along with the rest of the paper and should
92 be uploaded and described using our Prism manuscript system. Please refer to the [Author
93 Guidelines for Supplementary Materials in Optica Publishing Group Journals](#) for more detailed
94 instructions on labeling supplementary materials and your manuscript.

95 **Authors may also include Supplemental Documents** (PDF documents with expanded de-
96 scriptions or methods) with the primary manuscript. At this time, supplemental PDF files are
97 not accepted for partner titles, JOCN and *Photonics Research*. To reference the supplementary
98 document, the statement “See Supplement 1 for supporting content.” should appear at the
99 bottom of the manuscript (above the References heading).

100 *5.3. Sample Dataset Citation*

101 1. M. Partridge, "Spectra evolution during coating," figshare (2014), <http://dx.doi.org/10.6084/m9.figshare.1004612>.

102 *5.4. Sample Code Citation*

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

105 **6. Mathematical and scientific notation**

106 *6.1. Displayed equations*

107 Displayed equations should be centered. Equation numbers should appear at the right-hand
108 margin, in parentheses:

$$J(\rho) = \frac{\gamma^2}{2} \sum_{k(\text{even})=-\infty}^{\infty} \frac{(1+k\tau)}{[(1+k\tau)^2 + (\gamma\rho)^2]^{3/2}}. \quad (1)$$

109 All equations should be numbered in the order in which they appear and should be referenced
110 from within the main text as Eq. (1), Eq. (2), and so on [or as inequality (1), etc., as appropriate].

111 7. Backmatter

112 Backmatter sections should be listed in the order Funding/Acknowledgment/Disclosures/Data
113 Availability Statement/Supplemental Document section. An example of backmatter with each
114 of these sections included is shown below.

115 **Funding.** Content in the funding section will be generated entirely from details submitted to Prism.
116 Authors may add placeholder text in the manuscript to assess length, but any text added to this section
117 in the manuscript will be replaced during production and will display official funder names along with
118 any grant numbers provided. If additional details about a funder are required, they may be added to the
119 Acknowledgments, even if this duplicates information in the funding section. See the example below in
120 Acknowledgements.

121 **Acknowledgments.** Acknowledgments should be included at the end of the document. The section
122 title should not follow the numbering scheme of the body of the paper. Additional information crediting
123 individuals who contributed to the work being reported, clarifying who received funding from a particular
124 source, or other information that does not fit the criteria for the funding block may also be included; for
125 example, “K. Flockhart thanks the National Science Foundation for help identifying collaborators for this
126 work.”

127 **Disclosures.** Disclosures should be listed in a separate nonnumbered section at the end of the manuscript.
128 List the Disclosures codes identified on the [Conflict of Interest policy page](#), as shown in the examples
129 below:

130 ABC: 123 Corporation (I,E,P), DEF: 456 Corporation (R,S). GHI: 789 Corporation (C).

131 If there are no disclosures, then list “The authors declare no conflicts of interest.”

132 **Data Availability Statement.** A Data Availability Statement (DAS) will be required for all submissions
133 beginning 1 March 2021. The DAS should be an unnumbered separate section titled “Data Availability”
134 that immediately follows the Disclosures section. See the [Data Availability Statement policy page](#) for more
135 information.

136 OSA has identified four common (sometimes overlapping) situations that authors should use as guidance.
137 These are provided as minimal models, and authors should feel free to include any additional details that
138 may be relevant.

139 1. When datasets are included as integral supplementary material in the paper, they must be declared
140 (e.g., as "Dataset 1" following our current supplementary materials policy) and cited in the DAS,
141 and should appear in the references.

142 **Data availability.** Data underlying the results presented in this paper are available in Dataset 1,
143 Ref. [3].

144 2. When datasets are cited but not submitted as integral supplementary material, they must be cited in
145 the DAS and should appear in the references.

146 **Data availability.** Data underlying the results presented in this paper are available in Ref. [3].

147 3. If the data generated or analyzed as part of the research are not publicly available, that should be
148 stated. Authors are encouraged to explain why (e.g. the data may be restricted for privacy reasons),
149 and how the data might be obtained or accessed in the future.

150 **Data availability.** Data underlying the results presented in this paper are not publicly available at
151 this time but may be obtained from the authors upon reasonable request.

152 4. If no data were generated or analyzed in the presented research, that should be stated.

153 **Data availability.** No data were generated or analyzed in the presented research.

154 **Supplemental document.** See Supplement 1 for supporting content.

155 8. References

156 Proper formatting of references is extremely important, not only for consistent appearance but
157 also for accurate electronic tagging. Please follow the guidelines provided below on formatting,
158 callouts, and use of Bib \TeX .

159 8.1. Formatting reference items

160 Each source must have its own reference number. Footnotes (notes at the bottom of text pages)
161 are not used in our journals. References require all author names, full titles, and inclusive
162 pagination. Examples of common reference types can be found in the [style guide](#).

163 The commands `\begin{thebibliography}{}` and `\end{thebibliography}` for-
164 mat the section according to standard style, showing the title **References**. Use the `\bibitem{label}`
165 command to start each reference.

166 8.2. Formatting reference citations

167 References should be numbered consecutively in the order in which they are referenced in the
168 body of the paper. Set reference callouts with standard `\cite{}` command or set manually
169 inside square brackets [1].

170 To reference multiple articles at once, simply use a comma to separate the reference labels,
171 e.g. `\cite{Yelin:03,Masajada:13,Zhang:14}`, produces [1–3].

172 8.3. Bib \TeX

173 Bib \TeX may be used to create a file containing the references, whose contents (i.e., contents of
174 `.bbl` file) can then be pasted into the bibliography section of the `.tex` file. A Bib \TeX style
175 file, `osajnl.bst`, is provided.

176 If your manuscript already contains a manually formatted `\begin{thebibliography}...`
177 `\end{thebibliography}` list, then delete the `latexmkrc` file (if present) from your
178 submission files. However you should ensure that your manually-formatted reference list adheres
179 to style accurately.

180 9. Conclusion

181 After proofreading the manuscript, compress your `.tex` manuscript file and all figures (which
182 should be in EPS or PDF format) in a ZIP, TAR or TAR-GZIP package. All files must be
183 referenced at the root level (e.g., file `figure-1.eps`, not `/myfigs/figure-1.eps`). If
184 there are supplementary materials, the associated files should not be included in your manuscript
185 archive but be uploaded separately through the Prism interface.

186 Add references with Bib \TeX or manually. [1–8]

187 References

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201 testbed telescope," in *Space Telescopes and Instrumentation I: Optical, Infrared, and Millimeter*, vol. 6265 (2006),
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