

Universal manuscript template for OSA journals

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

¹Peer Review, Publications Department, The Optical Society (OSA), 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

²Publications Department, The Optical Society (OSA), 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

³Currently with the Department of Electronic Journals, The Optical Society (OSA), 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

*opex@osa.org

Abstract: L^AT_EX manuscripts submitted to OSA journals may use these instructions and this universal template format. The template simplifies manuscript preparation and eases transfer between OSA 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,
Optical Society of America, 2010 Massachusetts Avenue NW,
Washington, DC 20036, USA\\
\authormark{2}Publications Department, Optical Society of America,
2010 Massachusetts Avenue NW, Washington, DC 20036, USA\\
\authormark{3}xyz@osa.org}
\email{\authormark{*}opex@osa.org}
```

This format will generate the following appearance:

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

¹Peer Review, Publications Department, Optical Society of America, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

²Publications Department, Optical Society of America, 2010 Massachusetts Avenue NW, Washington, DC 20036, USA

³xyz@osa.org

*opex@osa.org

43 The second format forgoes the asterisk and sets all email addresses equally within the affiliations.
 44 Please note that this format does not use the `\email{}` field at all.

```

  45 \author{Author One\authormark{1,3} and Author Two\authormark{2,4}}
  46
  47 \address{\authormark{1}Peer Review, Publications Department,
  48 Optical Society of America, 2010 Massachusetts Avenue NW,
  49 Washington, DC 20036, USA\\
  50 \authormark{2}Publications Department, Optical Society of America,
  51 2010 Massachusetts Avenue NW, Washington, DC 20036, USA\\
  52 \authormark{3}xyz@osa.org\\
  53 \authormark{4}opex@osa.org}

```

54 This format will generate the following appearance:

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

56 ¹*Peer Review, Publications Department, Optical Society of America, 2010 Massachusetts Avenue NW,*
 57 *Washington, DC 20036, USA*
 58 ²*Publications Department, Optical Society of America, 2010 Massachusetts Avenue NW, Washington, DC*
 59 *20036, USA*
 60 ³*xyz@osa.org*
 61 ⁴*opex@osa.org*

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

63 3. Abstract

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

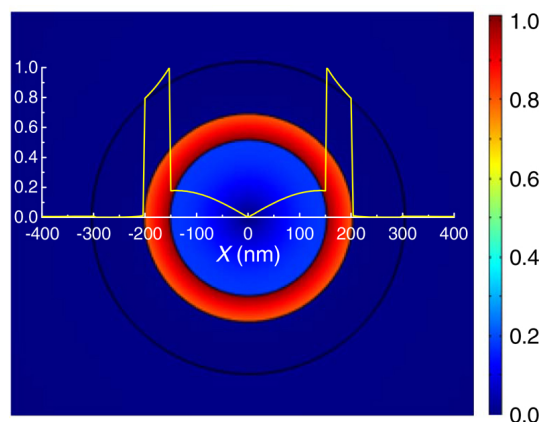


Fig. 1. Sample caption (Fig. 2, [1]).

69 4. Assessing final manuscript length

70 OSA's Universal Manuscript Template is based on the OSA Express layout and will provide
 71 an accurate length estimate for Optics Express, Biomedical Optics Express, Optical Materials

Express, and OSA's newest title OSA Continuum. Applied Optics, JOSAA, JOSAB, Optics Letters, Optica, and Photonics Research publish articles in a two-column layout. To estimate the final page count in a two-column layout, multiply the manuscript page count (in increments of 1/4 page) by 60%. For example, 11.5 pages in the OSA Universal Manuscript Template are roughly equivalent to 7 composed two-column pages. Note that the estimate is only an approximation, as treatment of figure sizing, equation display, and other aspects can vary greatly across manuscripts. Authors of Letters may use the legacy template for a more accurate length estimate.

5. Figures, tables, and supplementary materials

5.1. Figures and tables

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

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

5.2. Supplementary materials in OSA journals

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

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

5.3. Sample Dataset Citation

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

5.4. 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>.

6. Mathematical and scientific notation

6.1. Displayed equations

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

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

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

109 7. Backmatter

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

153 8. References

154 Proper formatting of references is extremely important, not only for consistent appearance but
155 also for accurate electronic tagging. Please follow the guidelines provided below on formatting,
156 callouts, and use of BibTeX.

157 8.1. Formatting reference items

158 Each source must have its own reference number. Footnotes (notes at the bottom of text pages)
159 are not used in OSA journals. References require all author names, full titles, and inclusive
160 pagination. Examples of common reference types can be found on the [Author and Reviewer](#)
161 [Resource Center](#).

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

165 8.2. Formatting reference citations

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

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

171 8.3. BibTeX

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

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

179 9. Conclusion

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

185 Add references with BibTeX or manually. [1–8]

186 References

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204 [org/10.6084/m9.figshare.1005064](http://dx.doi.org/10.6084/m9.figshare.1005064).