

Universal manuscript template for Optica Publishing Group journals

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Abstract: This template contains important information on submissions to Optica Publishing Group journals. We encourage authors to focus foremost on their content and not on formatting. The template is provided as a guide, but following the visual styling is optional. Each manuscript will be formatted in a consistent way during production. Authors also have the option to [submit articles](#) to the Optica Publishing Group preprint server, [Optica Open](#). You may find it helpful to use our optional [Paperpal manuscript readiness check](#) and [language polishing service](#). Note that copyright and licensing information should not be added to your journal or Optica Open manuscript.

1. Introduction

We encourage authors preparing submissions to focus foremost on their content and not on formatting. This template is provided as a guide, but following the visual styling is optional. Each manuscript will be formatted in a consistent way during production. Authors also have the option to [submit articles](#) to the Optica Publishing Group preprint server, [Optica Open](#). You may find it helpful to use our optional [Paperpal](#) manuscript readiness check and [language polishing service](#).

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We require manuscripts to identify only a single corresponding author. The corresponding author typically is the person who submits the manuscript and handles correspondence throughout the peer review and publication process. Alternatively, you may choose not to identify a corresponding author and instead use an author note to indicate equal author contributions. Only the corresponding author will have an asterisk attached to their e-mail address. Additional co-author e-mail addresses will have a superscript number in the numerical order of the affiliations.

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This format will generate the following appearance:

43 **AUTHOR ONE¹ AND AUTHOR TWO^{2,*}**

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45 *Washington, DC 20036, USA*

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48 **xyz@optica.org*

49 If other statements about author contribution and contact are needed, they can be added in
50 addition to the corresponding author designation.

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51 \author{Author One\authormark{1,$\dag$} and Author Two\authormark{2,$\dag$,*}}  
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53 \address{\authormark{1}Peer Review, Publications Department,  
54 Optica Publishing Group, 2010 Massachusetts Avenue NW,  
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57 2010 Massachusetts Avenue NW, Washington, DC 20036, USA\\  
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65 *20036, USA*

66 [†]*The authors contributed equally to this work.*

67 **xyz@optica.org*

68 **3. Abstract**

69 The abstract should be limited to approximately 100 words. If the work of another author is cited
70 in the abstract, that citation is written out as, for example, *Opt. Express* **32**, 32643 (2024), and a
71 separate citation should be included in the body of the text. The first reference cited in the main
72 text must be [1]. There is no need to include numbers, bullets, or lists inside the abstract. Do not
73 add the licensing or copyright statement at submission.

74 **4. Assessing final manuscript length**

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76 an accurate length estimate for *Optics Express*, *Biomedical Optics Express*, *Optical Materials*
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79 in a two-column layout. To estimate the final page count in a two-column layout, multiply the
80 manuscript page count (in increments of 1/4 page) by 60%. For example, 11.5 pages in the
81 Universal Manuscript Template are roughly equivalent to 7 composed two-column pages. Note
82 that the estimate is only an approximation, as treatment of figure sizing, equation display, and
83 other aspects can vary greatly across manuscripts. Authors of Letters may use the length-check
84 template for a more-accurate length estimate.

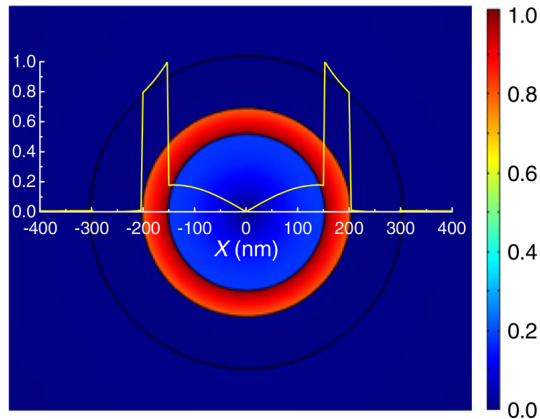


Fig. 1. Sample caption (Fig. 2, [1]).

85 5. Figures, tables, and supplementary materials

86 5.1. Figures and tables

87 Figures and tables should be placed in the body of the manuscript. Standard \LaTeX environments
88 should be used to place tables and figures:

```
89 \begin{figure} [htbp]
90 \centering\includegraphics[width=7cm]{opticafig1}
91 \caption{Sample caption (Fig. 2, \cite{Yelin:03}).}
92 \end{figure}
```

93 For figures that are being reprinted by permission of the publisher, include the permission line
94 required by that publisher in the caption. Please refer to the information on [permissions and](#)
95 [reprints](#) for guidance on figure permissions and image use.

96 Table 1, below, provides a formatting example. Note that tables should have titles and not
97 captions. To include additional information, use footnotes as shown in this example:

Table 1. Shape Functions for Quadratic Line Elements^a

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}

^aOnly quadratic line elements are included here.

98 5.2. Supplementary materials in Optica Publishing Group journals

99 Our journals allow authors to include supplementary materials as integral parts of a manuscript.
100 Such materials are subject to peer-review procedures along with the rest of the paper and should be
101 uploaded and described using our Prism manuscript system. Please refer to the [Author Guidelines](#)
102 [for Supplementary Materials in Optica Publishing Group Journals](#) for more information on
103 labeling supplementary materials and your manuscript. For preprints submitted to Optica Open a
104 link to supplemental material should be included in the submission.

105 **Authors may also include Supplemental Documents** (PDF documents with expanded
106 descriptions or methods) with the primary manuscript. At this time, supplemental PDF files are
107 not accepted for partner titles, JOCN and *Photonics Research*.

108 5.3. Sample Dataset Citation

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

110 5.4. Sample Code Citation

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

113 6. Mathematical and scientific notation

114 6.1. Displayed equations

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

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

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

119 7. Back matter

120 Back matter sections should be listed in the order Funding/Acknowledgment/Disclosures/Data
121 Availability Statement/Supplemental Document section. An example of back matter with each
122 of these sections included is shown below. The section titles should not follow the numbering
123 scheme of the body of the paper.

124 **Funding.** Content in the funding section will be generated entirely from details submitted to Prism.
125 Authors may add placeholder text in this section to assess length, but any text added to this section will be
126 replaced during production and will display official funder names along with any grant numbers provided.
127 If additional details about a funder are required, they may be added to the Acknowledgment, even if this
128 duplicates some information in the funding section. For preprint submissions, please include funder names
129 and grant numbers in the manuscript.

130 **Acknowledgment.** Additional information crediting individuals who contributed to the work being
131 reported, clarifying who received funding from a particular source, or other information that does not fit the
132 criteria for the funding block may also be included; for example, "K. Flockhart thanks the National Science
133 Foundation for help identifying collaborators for this work."

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

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

137 If there are no disclosures, then list "The authors declare no conflicts of interest."

138 **Data Availability Statement.** A Data Availability Statement (DAS) is required for all submissions
139 (except JOCN papers). The DAS should be an unnumbered separate section titled "Data availability" that
140 immediately follows the Disclosures section. See the [Data Availability Statement policy page](#) for more
141 information.

142 Optica has identified four common (sometimes overlapping) situations that authors should use as guidance.
143 These are provided as minimal models. You may paste the appropriate statement into your submission and
144 include any additional details that may be relevant.

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

148 **Data availability.** Data underlying the results presented in this paper are available in Dataset 1,
149 Ref. [8].

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

152 **Data availability.** Data underlying the results presented in this paper are available in Ref. [8].

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

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

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

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

160 Data availability statements are not required for preprint submissions.

161 **Supplemental document.** A supplemental document must be called out in the back matter so that a link
162 can be included. For example, "See Supplement 1 for supporting content." Note that the Supplemental
163 Document must also have a callout in the body of the paper.

164 8. References

165 Proper formatting of references is important, not only for consistent appearance but also for
166 accurate electronic tagging. Please follow the guidelines provided below on formatting, callouts,
167 and use of Bib_TE_X.

168 8.1. Formatting reference items

169 Each source must have its own reference number. Footnotes (notes at the bottom of text pages)
170 are not used in our journals. List up to three authors, and if there are more than three use *et al.*
171 after that. Examples of common reference types can be found in the [Author Style Guide](#).

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

175 8.2. Formatting reference citations

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

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

181 8.3. BibTeX

182 BibTeX may be used to create a file containing the references, whose contents (i.e., contents of
183 .bbl file) can then be pasted into the bibliography section of the .tex file. A BibTeX style file,
184 optica.jnl.bst, is provided.

185 If your manuscript already contains a manually formatted `\begin{thebibliography}...`
186 `\end{thebibliography}` list, then delete the `latexmkrc` file (if present) from your
187 submission files.

188 9. Conclusion

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

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

195 References

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