

# Universal manuscript template for Optica Publishing Group journals

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**Abstract:** not yet

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## 1. Introduction

not yet

## 2. Experimental setup

### 2.1. 976 nm amplifier system

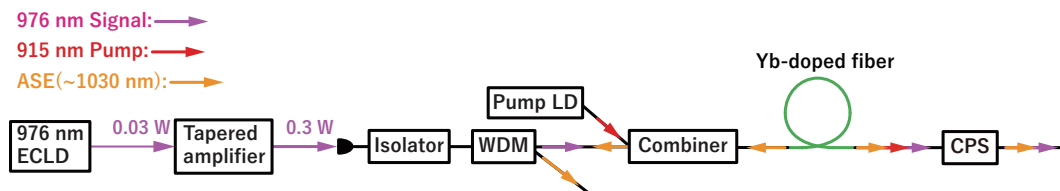


Fig. 1. 976 nm YDFA system.

A schematic of the 976 nm YDFA system is shown in Fig. 1. An external-cavity laser diode(ECLD) at 976 nm is used for a seed laser. The seed laser is pre-amplified by tapered amplifier from 30 mW to 900 mW, and coupled to the YDFA input fiber which is a polarization maintaining(PM) fiber with a FPC/AC connector. The seed input of the YDFA is connected to an isolator and a wavelength division multiplexing(WDM) filter, which are used to block return light such as backward ASE to the seed laser. The seed and pump are combined to a double cladding PM fiber which has core of 20  $\mu\text{m}$  and cladding of 125  $\mu\text{m}$  by a pump and signal combiner. The 915 nm radiation for pumping the Yb dope fiber is generated from fiber-coupled laser diode with an output power of up to 70 W. The output is directly fusion-spliced to a port of the pump and signal combiner.

### 2.2. 987 nm amplifier system

### 2.3. 1112 nm amplifier system

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

### 62 3. Results and discussion

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

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## 78 **5. Figures, tables, and supplementary materials**

### 79 *5.1. Figures and tables*

80 Figures and tables should be placed in the body of the manuscript. Standard L<sup>A</sup>T<sub>E</sub>X environments  
81 should be used to place tables and figures:

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

### 86 *5.2. Supplementary materials in Optica Publishing Group journals*

87 Our journals allow authors to include supplementary materials as integral parts of a manuscript  
88 Such materials are subject to peer-review procedures along with the rest of the paper and should be  
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93 descriptions or methods) with the primary manuscript At this time, supplemental PDF files are  
94 not accepted for partner titles, JOCN and *Photonics Research* To reference the supplementary  
95 document, the statement “See Supplement 1 for supporting content.” should appear at the bottom  
96 of the manuscript (above the References heading).

### 97 *5.3. Sample Dataset Citation*

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

### 99 *5.4. Sample Code Citation*

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

## 102 **6. Mathematical and scientific notation**

### 103 *6.1. Displayed equations*

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

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

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

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110 Availability Statement/Supplemental Document section An example of backmatter with each of  
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114 in the manuscript will be replaced during production and will display official funder names along with  
115 any grant numbers provided If additional details about a funder are required, they may be added to the

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120 individuals who contributed to the work being reported, clarifying who received funding from a particular  
121 source, or other information that does not fit the criteria for the funding block may also be included; for  
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126 ABC: 123 Corporation (I,E,P), DEF: 456 Corporation (R,S). GHI: 789 Corporation (C).

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

128 **Data Availability Statement.** A Data Availability Statement (DAS) will be required for all submissions  
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130 that immediately follows the Disclosures section See the [Data Availability Statement policy page](#) for more  
131 information.

132 OSA has identified four common (sometimes overlapping) situations that authors should use as guidance  
133 These are provided as minimal models, and authors should feel free to include any additional details that  
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135 1. When datasets are included as integral supplementary material in the paper, they must be declared  
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137 should appear in the references.

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

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## 151 8. References

152 Proper formatting of references is extremely important, not only for consistent appearance but  
153 also for accurate electronic tagging Please follow the guidelines provided below on formatting,  
154 callouts, and use of BibT<sub>E</sub>X.

## 155 8.1. Formatting reference items

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

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

## 162 8.2. Formatting reference citations

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

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

## 168 8.3. BibTeX

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

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173 `\end{thebibliography}` list, then delete the latexmkrc file (if present) from your  
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175 to style accurately.

## 176 9. Conclusion

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

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