

# Package ‘rticles’

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**Type** Package

**Title** Article Formats for R Markdown

**Version** 0.21

**Description** A suite of custom R Markdown formats and templates for authoring journal articles and conference submissions.

**License** GPL-3

**Imports** utils, rmarkdown (>= 2.5), knitr (>= 1.30), yaml, tinytex (>= 0.30), xfun

**SystemRequirements** GNU make

**URL** <https://github.com/rstudio/rticles>

**BugReports** <https://github.com/rstudio/rticles/issues>

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**Author** JJ Allaire [aut],

Yihui Xie [aut, cre] (<<https://orcid.org/0000-0003-0645-5666>>),

Christophe Dervieux [aut] (<<https://orcid.org/0000-0003-4474-2498>>),

RStudio [cph, fnd],

R Foundation [aut, cph],

Hadley Wickham [aut],

Journal of Statistical Software [aut, cph],

Ramnath Vaidyanathan [aut, cph],

Association for Computing Machinery [aut, cph],

Carl Boettiger [aut, cph],

Elsevier [aut, cph],

Karl Broman [aut, cph],

Kirill Mueller [aut, cph],

Bastiaan Quast [aut, cph],

Randall Pruim [aut, cph],

Ben Marwick [aut, cph],  
 Charlotte Wickham [aut, cph],  
 Oliver Keyes [aut, cph],  
 Miao Yu [aut, cph],  
 Daniel Emaasit [aut, cph],  
 Thierry Onkelinx [aut, cph],  
 Alessandro Gasparini [aut, cph]  
 (<<https://orcid.org/0000-0002-8319-7624>>),  
 Marc-Andre Desautels [aut, cph],  
 Dominik Leutnant [aut, cph] (<<https://orcid.org/0000-0003-3293-2315>>),  
 MDPI [aut, cph],  
 Taylor and Francis [aut, cph],  
 Oğuzhan Öğreden [aut] (<<https://orcid.org/0000-0002-9949-3348>>),  
 Dalton Hance [aut],  
 Daniel Nüst [aut, cph] (<<https://orcid.org/0000-0002-0024-5046>>),  
 Petter Uvesten [aut, cph],  
 Elio Campitelli [aut, cph] (<<https://orcid.org/0000-0002-7742-9230>>),  
 John Muschelli [aut, cph] (<<https://orcid.org/0000-0001-6469-1750>>),  
 Alex Hayes [aut] (<<https://orcid.org/0000-0002-4985-5160>>),  
 Zhian N. Kamvar [aut, cph] (<<https://orcid.org/0000-0003-1458-7108>>),  
 Noam Ross [aut, cph] (<<https://orcid.org/0000-0002-2136-0000>>),  
 Robrecht Cannoodt [aut, cph] (<<https://orcid.org/0000-0003-3641-729X>>,  
 rcannood),  
 Duncan Luguern [aut],  
 David M. Kaplan [aut, ctb] (<<https://orcid.org/0000-0001-6087-359X>>,  
 dmkaplan2000),  
 Sebastian Kreuzer [aut] (<<https://orcid.org/0000-0002-0734-2199>>),  
 Shixiang Wang [aut, ctb] (<<https://orcid.org/0000-0001-9855-7357>>),  
 Jay Hesselberth [aut, ctb] (<<https://orcid.org/0000-0002-6299-179X>>),  
 Alfredo Hernández [ctb] (<<https://orcid.org/0000-0002-2660-4545>>),  
 Stefano Coretta [ctb] (<<https://orcid.org/0000-0001-9627-5532>>,  
 stefanocoretta),  
 Matthias Templ [ctb] (<<https://orcid.org/0000-0002-8638-5276>>,  
 matthias-da),  
 Alvaro Uzaheta [ctb] (auzaheta),  
 JooYoung Seo [ctb] (<<https://orcid.org/0000-0002-4064-6012>>)

**Maintainer** Yihui Xie <xie@yihui.name>

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acm_article	<i>R Markdown output formats for (journal) articles</i>
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## Description

Most article formats are based on `rmarkdown::pdf_document()`, with a custom Pandoc LaTeX template and different default values for other arguments (e.g., `keep_tex = TRUE`).

## Usage

```
acm_article(...)
```

```
acs_article(
  ...,
  keep_tex = TRUE,
  md_extensions = c("-autolink_bare_uris"),
  fig_caption = TRUE
)
```

```
aea_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))
```

```
agu_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  highlight = NULL,
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)
```

```
amq_article(
  ...,
  latex_engine = "xelatex",
  keep_tex = TRUE,
  fig_caption = TRUE,
  md_extensions = c("-autolink_bare_uris")
)
```

```
ams_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))
```

```
asa_article(..., keep_tex = TRUE, citation_package = "natbib")
```

```
arxiv_article(..., keep_tex = TRUE)

bioinformatics_article(..., keep_tex = TRUE, citation_package = "natbib")

biometrics_article(..., keep_tex = TRUE, citation_package = "natbib")

ctex_article(..., template = "default", latex_engine = "xelatex")

ctex(..., template = "default", latex_engine = "xelatex")

elsevier_article(
  ...,
  keep_tex = TRUE,
  md_extensions = c("-autolink_bare_uris")
)

frontiers_article(..., keep_tex = TRUE)

glossa_article(..., keep_tex = TRUE, latex_engine = "xelatex")

ims_article(
  journal = c("aoas", "aap", "aop", "aos", "sts"),
  keep_tex = TRUE,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris"),
  pandoc_args = NULL,
  ...
)

jasa_article(
  ...,
  keep_tex = TRUE,
  latex_engine = "xelatex",
  citation_package = "natbib"
)

lipics_article(
  ...,
  latex_engine = "xelatex",
  keep_tex = TRUE,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

jedm_article(..., keep_tex = TRUE, citation_package = "natbib")

mdpi_article(..., keep_tex = TRUE)
```

```

mnras_article(..., keep_tex = TRUE, fig_caption = TRUE)

oup_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

peerj_article(..., keep_tex = TRUE)

pihph_article(
  ...,
  keep_tex = TRUE,
  latex_engine = "xelatex",
  citation_package = "biblatex"
)

plos_article(..., keep_tex = TRUE, md_extensions = c("-autolink_bare_uris"))

pnas_article(..., keep_tex = TRUE)

sage_article(..., highlight = NULL, citation_package = "natbib")

sim_article(..., highlight = NULL, citation_package = "natbib")

springer_article(..., keep_tex = TRUE, citation_package = "default")

tf_article(..., keep_tex = TRUE, citation_package = "natbib")

```

### Arguments

..., keep\_tex, latex\_engine, citation\_package, highlight, fig\_caption, md\_extensions, template, pandoc\_...  
 Arguments passed to rmarkdown::[pdf\_document]().

journal            one of "aoas", "aap", "aop", "aos", "sts" for ims\_article

### Value

An R Markdown output format.

### Details

You can find more details about each output format below.

#### acm\_article

Format for creating an Association for Computing Machinery (ACM) articles. Adapted from <https://www.acm.org/publications/proceedings-template>.

#### acs\_article

Format for creating an American Chemical Society (ACS) Journal articles. Adapted from <https://pubs.acs.org/page/4authors/submission/tex.html>.

## aea\_article

Format for creating submissions to the American Economic Association (AER, AEJ, JEL, PP).

## agu\_article

Format for creating a American Geophysical Union (AGU) article. Adapted from <https://www.agu.org/Publish-with-AGU/Publish/#1>.

## amq\_article

Ce format a été adapté du format du bulletin de l'AMQ.

## ams\_article

Format for creating an American Meteorological Society (AMS) Journal articles. Adapted from <https://www.ametsoc.org/ams/index.cfm/publications/authors/journal-and-bams-authors/author-resources/latex-author-info/>.

## asa\_article

This format was adapted from The American Statistician (TAS) format, but it should be fairly consistent across American Statistical Association (ASA) journals.

## arxiv\_article

Adapted from the George Kour's format for arXiv and bio-arXiv preprints. So far as I'm aware, entirely unofficial but still a staple.

## bioinformatics\_article

Format for creating submissions to a Bioinformatics journal. Adapted from [https://academic.oup.com/bioinformatics/pages/submission\\_online](https://academic.oup.com/bioinformatics/pages/submission_online).

## biometrics\_article

This format was adapted from the Biometrics journal.

## ctex\_article

A wrapper function for `rmarkdown::pdf_document()` and the default value of `latex_engine` is changed to `xelatex`, so it works better for typesetting Chinese documents with the LaTeX package **ctex**. The function `ctex` is an alias of `ctex_article`.

## elsevier\_article

Format for creating submissions to Elsevier journals. Adapted from <https://www.elsevier.com/authors/policies-and-guidelines/latex-instructions>.

## frontiers\_article

Format for creating Frontiers journal articles. Adapted from <https://www.frontiersin.org/about/author-guidelines>.

## glossa\_article

Format for creating submissions to Glossa: a journal of general linguistics. Author Guidelines are available on [www.glossa-journal.org](http://www.glossa-journal.org). Template is adapted from <https://github.com/guidovw/Glossalatem>.

## ims\_article

Format for creating submissions to the Institute of Mathematical Statistics **IMS** journals and publications. Adapted from <https://github.com/vtex-soft/texsupport.ims-aos>.

The argument journal accepts the acronym of any of the **journals** in IMS:

- aap: The Annals of Applied Probability
- aoas: The Annals of Applied Statistics
- aop: The Annals of Probability
- aos: The Annals of Statistics
- sts: Statistical Science

## jasa\_article

Format for creating submissions to the Journal of the Acoustical Society of America. Adapted from <https://acousticalsociety.org/preparing-latex-manuscripts/>.

## lipics\_article

Format for creating submissions to LIPIcs - Leibniz International Proceedings Informatics - articles. Adapted from the official Instructions for Authors at <https://submission.dagstuhl.de/documentation/authors> and the template from the archive authors-lipics-v2019.zip downloaded with version tag v2019.2. The template is provided under The LaTeX Project Public License (LPPL), Version 1.3c.

## jedm\_article

Format for creating Journal of Educational Data Mining (JEDM) articles. Adapted from <https://jedm.educationaldatamining.org/index.php/JEDM/information/authors>.

## mdpi\_article

Format for creating submissions to Multidisciplinary Digital Publishing Institute (MDPI) journals. Adapted from <https://www.mdpi.com/authors/latex>.

## mnras\_article

Format for creating an Monthly Notices of Royal Astronomical Society (MNRAS) Journal articles. Adapted from <https://ras.ac.uk>.

## oup\_article

Format for creating submissions to many Oxford University Press journals. Adapted from [https://academic.oup.com/journals/pages/authors/preparing\\_your\\_manuscript](https://academic.oup.com/journals/pages/authors/preparing_your_manuscript) and [https://academic.oup.com/icesjms/pages/General\\_Instructions](https://academic.oup.com/icesjms/pages/General_Instructions).

## peerj\_article

Format for creating submissions to The PeerJ Journal. This was adapted from the [PeerJ Overleaf Template](#).

## pihph\_article

Format for creating submissions to the Papers in Historical Phonology (<http://journals.ed.ac.uk/pihph/about/submissions>). Adapted from <https://github.com/pihph/templates>. This format works well with `latex_engine = "xelatex"` and `citation_package="biblatex"`, which are the default. It may not work correctly if you change these value. In that case, please open an issue and, a PR to contribute a change in the template.

## plos\_article

Format for creating submissions to PLOS journals. Adapted from <https://journals.plos.org/ploscompbiol/s/latex>.

## pnas\_article

Format for creating submissions to PNAS journals.

## sage\_article

Format for creating submissions to Sage Journals. Based on the official Sage Journals <https://uk.sagepub.com/sites/default/files>

Possible arguments for the YAML header are:

- `title` title of the manuscript
- `runninghead` short author list for header
- `author` list of authors, containing name and num
- `address` list containing num and org for defining author affiliations
- `corrauth` corresponding author name and address
- `email` correspondence email
- `abstract` abstract, limited to 200 words
- `keywords` keywords for the article
- `bibliography` BibTeX .bib file name
- `classoption` options of the `sagej` class
- `header-includes`: custom additions to the header, before the `\begin{document}` statement
- `include-after`: for including additional LaTeX code before the `\end{document}` statement



## sim\_article

Format for creating submissions to Statistics in Medicine. Based on the official Statistics in Medicine [class](#).

Possible arguments for the YAML header are:

- title title of the manuscript
- author list of authors, containing name and num
- address list containing num and org for defining author affiliations
- presentaddress not sure what they mean with this
- corres author and address for correspondence
- authormark short author list for header
- received, revised, accepted dates of submission, revision, and acceptance of the manuscript
- abstract abstract, limited to 250 words
- keywords up to 6 keywords
- bibliography BibTeX .bib file
- classoption options of the WileyNJD-v2 class
- longtable set to true to include the longtable package, used by default from pandoc to convert markdown to LaTeX code
- header-includes: custom additions to the header, before the `\begin{document}` statement
- include-after: for including additional LaTeX code before the `\end{document}` statement

## springer\_article

This format was adapted from the Springer Macro package for Springer Journals.

## tf\_article

Format for creating submissions to a Taylor & Francis journal. Adapted from <https://www.tandf.co.uk/journals/autho>

**Examples**

```
## Not run:
rmarkdown::draft("MyArticle.Rmd", template = "acm", package = "rticles")
rmarkdown::draft("MyArticle.Rmd", template = "asa", package = "rticles")
## End(Not run)
```

---

ajs\_article                    *Austrian Journal of Statistics (AJS) format.*

---

### Description

Format for creating a Austrian Journal of Statistics (AJS) article. Adapted from <https://www.jstatsoft.org/about/submissions>.

### Usage

```
ajs_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  pandoc_args = NULL
)
```

### Arguments

...	Arguments to <code>rmarkdown::pdf_document()</code>
keep_tex	Keep the intermediate tex file used in the conversion to PDF
citation_package	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .
pandoc_args	Additional command line options to pass to pandoc

---

copernicus\_article            *Copernicus journals format.*

---

### Description

Format for creating submissions to Copernicus journals.

### Usage

```
copernicus_article(
  ...,
  keep_tex = TRUE,
  highlight = NULL,
  citation_package = "natbib",
  md_extensions = c("-autolink_bare_uris", "-auto_identifiers")
)

copernicus_journal_abbreviations(journal_name = "*")
```

## Arguments

...	Additional arguments to <code>rmarkdown::pdf_document()</code> . <b>Note:</b> extra_dependencies are not allowed as Copernicus does not support additional packages included via <code>\usepackage{}</code> .
keep_tex	Keep the intermediate tex file used in the conversion to PDF
highlight	Syntax highlighting style. Supported styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", and "haddock". Pass NULL to prevent syntax highlighting.
citation_package	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .
md_extensions	Markdown extensions to be added or removed from the default definition or R Markdown. See the <code>rmarkdown_format</code> for additional details.
journal_name	A regular expression to filter the by the journal name, see <code>pattern</code> in <code>base::grep()</code> ; defaults to <code>*</code> .

## Details

This was adapted from [https://publications.copernicus.org/for\\_authors/manuscript\\_preparation.html](https://publications.copernicus.org/for_authors/manuscript_preparation.html).

An number of required and optional manuscript sections, e.g. acknowledgements, competinginterests, or authorcontribution, must be declared using the respective properties of the R Markdown header - see skeleton file.

**Version:** Based on `copernicus_package.zip` in the version 6.3, 8 July 2021, using `copernicus.cls` in version 9.32, 7 July 2021.

**Copernicus journal abbreviations:** You can use the function `copernicus_journal_abbreviations()` to get the journal abbreviation for all journals supported by the Copernicus article template.

**Important note:** The online guidelines by Copernicus are the official resource. Copernicus is not responsible for the community contributions made to support the template in this package. Copernicus converts all typeset TeX files into XML, the expressions and markups have to be highly standardized. Therefore, please keep the following in mind:

- Please provide only one figure file for figures with several panels, and please do not use `\subfloat` or similar commands.
- Please use only commands in which words, numbers, etc. are within braces (e.g. `\textrm{TEXT}` instead of `\rm TEXT`).
- For algorithms, please use the syntax given in `template.tex` or provide your algorithm as a figure.
- Please do not define new commands.
- Supported packages (`\usepackage{}`) are already integrated in the `copernicus.cls`. Please do not insert additional ones in your `.tex` file.
- If you opt for syntax highlighting for your preprint or other reasons, please do not forget to use `highlight = NULL` for your final file upload once your manuscript was accepted for publication.

- Spaces in labels (`\label{ }`) are not allowed; please make sure that no label name is assigned more than once.
- Please do not use `\paragraph{ }`; only `\subsubsection{ }` is allowed.
- It is not possible to add tables in colour.

### Value

An R Markdown output format.

### Note

If you use `rmarkdown::pdf_document()`, all internal references (i.e. tables and figures) must use `\ref{ }` whereas with `bookdown::pdf_document2()`, you can additionally use `\@ref()`.

### References

Manuscript preparation guidelines for authors. [https://publications.copernicus.org/for\\_authors/manuscript\\_preparation.html](https://publications.copernicus.org/for_authors/manuscript_preparation.html)

### Examples

```
names(copernicus_journal_abbreviations())
copernicus_journal_abbreviations(journal_name = "Science Data")
## Not run:
library("rmarkdown")
draft("MyArticle.Rmd", template = "copernicus", package = "rticles")
render("MyArticle/MyArticle.Rmd")

## End(Not run)
```

---

iee\_article

*IEEE Transactions journal format.*

---

### Description

Format for creating submissions to IEEE Transaction journals. Adapted from [http://www.ieee.org/publications\\_standards/publications/authors/author\\_templates.html](http://www.ieee.org/publications_standards/publications/authors/author_templates.html).

### Usage

```
iee_article(
  draftmode = c("final", "draft", "draftcls", "draftclsnofoot"),
  hyphenfixes = "op-tical net-works semi-conduc-tor",
  IEEEspecialpaper = "",
  with_ifpdf = FALSE,
  with_cite = FALSE,
  with_amsmath = FALSE,
  with_algorithmic = FALSE,
```

```

with_subfig = FALSE,
with_array = FALSE,
with_dbfloatfix = FALSE,
keep_tex = TRUE,
pandoc_args = NULL,
md_extensions = c("-autolink_bare_uris"),
...
)

```

## Arguments

draftmode	Specify the draft mode to control spacing and whether images should be rendered. Valid options are: "final" (default), "draft", "draftcls", or "draftclsnofoot".
hyphenfixes	A character value that provides the correct hyphenations for ambiguous words. Separate new words with spaces.
IEEEspecialpaper	A character value containing the publication's special paper designation.
with_ifpdf	A logical value turning on (TRUE) or off (FALSE) the ifpdf LaTeX package.
with_cite	A logical value turning on (TRUE) or off (FALSE) the cite LaTeX package.
with_amsmath	A logical value turning on (TRUE) or off (FALSE) the amsmath LaTeX package.
with_algorithmic	A logical value turning on (TRUE) or off (FALSE) the algorithmic LaTeX package.
with_subfig	A logical value turning on (TRUE) or off (FALSE) the subfig LaTeX package.
with_array	A logical value turning on (TRUE) or off (FALSE) the array LaTeX package.
with_dbfloatfix	A logical value turning on (TRUE) or off (FALSE) the dbfloatfix LaTeX package.
keep_tex	Keep the intermediate tex file used in the conversion to PDF
pandoc_args	Additional command line options to pass to pandoc
md_extensions	Markdown extensions to be added or removed from the default definition or R Markdown. See the <a href="#">rmarkdown_format</a> for additional details.
...	Additional arguments to <a href="#">rmarkdown::pdf_document()</a>

## Details

Presently, only the "conference" paper mode offered by the `IEEEtran.cls` is supported.

## References

Shell, Michael. "How to use the IEEEtran LATEX class." *Journal of LATEX Class Files* 1.11 (2002): 10-20. [http://mirrors.rit.edu/CTAN/macros/latex/contrib/IEEEtran/IEEEtran\\_HOWTO.pdf](http://mirrors.rit.edu/CTAN/macros/latex/contrib/IEEEtran/IEEEtran_HOWTO.pdf)

---

joss_article	<i>Journal of Open Source Software (JOSS) format.</i>
--------------	---

---

### Description

Format for creating a Journal of Open Source Software (JOSS) or Journal of Open Source Education (JOSE) articles. Adapted from <https://github.com/openjournals/whedon>. As these journals take articles as markdown, this format can be used to generate markdown from R Markdown and to locally preview how the article will appear as PDF.

### Usage

```
joss_article(journal = "JOSS", keep_md = TRUE, latex_engine = "xelatex", ...)
```

### Arguments

journal	one of "JOSS" or "JOSE"
keep_md	Whether to retain the intermediate markdown and images. Defaults to TRUE.
latex_engine, ...	Arguments passed to <code>rmarkdown::pdf_document()</code>

### Details

The following variables may be set in YAML metadata to populate fields in the article PDF, but are only neccessary fo local preview: `formatted_doi`, `citation_author`, `year`, `volume`, `issue`, `page`, `submitted`, `published`, `review_url`, `repository`, and `archive_doi`.

---

journals	<i>List available journals</i>
----------	--------------------------------

---

### Description

List available journal names in this package.

### Usage

```
journals()
```

### Details

These names can be useful in two ways:

- You can add `_article` suffix to get the name of the output format (e.g., `rjournal_article()`).
- You can use the name directly in the template argument of `rmarkdown::draft()`.

**Value**

A character vector of the journal names.

**Examples**

```
articles::journals()
```

---

jss_article	<i>Journal of Statistical Software (JSS) format.</i>
-------------	--

---

**Description**

Format for creating a Journal of Statistical Software (JSS) articles. Adapted from <https://www.jstatsoft.org/about/submissions>.

**Usage**

```
jss_article(
  ...,
  keep_tex = TRUE,
  citation_package = "natbib",
  pandoc_args = NULL
)
```

**Arguments**

...	Arguments to <code>rmarkdown::pdf_document()</code>
keep_tex	Keep the intermediate tex file used in the conversion to PDF
citation_package	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .
pandoc_args	Additional command line options to pass to pandoc

---

rjournal_article	<i>R Journal format.</i>
------------------	--------------------------

---

**Description**

Format for creating R Journal articles. Adapted from <https://journal.r-project.org/submissions.html>.

**Usage**

```
rjournal_article(..., keep_tex = TRUE, citation_package = "natbib")
```

## Arguments

...	Arguments to <code>rmarkdown::pdf_document()</code> .
<code>keep_tex</code>	Keep the intermediate tex file used in the conversion to PDF
<code>citation_package</code>	The LaTeX package to process citations, <code>natbib</code> or <code>biblatex</code> . Use default if neither package is to be used, which means citations will be processed via the command <code>pandoc-citeproc</code> .

## Details

This file is only a basic article template. For full details of *The R Journal* style and information on how to prepare your article for submission, see the [Instructions for Authors](#)

### About this format and the R Journal requirements:

`rticles::rjournal_article` will help you build the correct files requirements:

- A R file will be generated automatically using `knitr::purl` - see <https://bookdown.org/yihui/rmarkdown-cookbook/purl.html> for more information.
- A tex file will be generated from this Rmd file and correctly included in `RJwrapper.tex` as expected to build `RJwrapper.pdf`.
- All figure files will be kept in the default `rmarkdown*_files` folder. This happens because `keep_tex = TRUE` by default in `rticles::rjournal_article`
- Only the bib filename is to be modified. An example bib file is included in the template (`RJreferences.bib`) and you will have to name your bib file as the tex, R, and pdf files.

## About YAML header fields

This section documents some of the YAML fields that can be used with this formats.

### The author field in the YAML header:

FIELD	TYPE	DESCRIPTION
<code>name</code>	<i>required</i>	name and surname of the author
<code>affiliation</code>	<i>required</i>	name of the author's affiliation
<code>address</code>	<i>required</i>	at least one address line for the affiliation
<code>url</code>	<i>optional</i>	an additional url for the author or the main affiliation
<code>orcid</code>	<i>optional</i>	the authors ORCID if available
<code>email</code>	<i>required</i>	the author's e-mail address
<code>affiliation2</code>	<i>optional</i>	name of the author's 2nd affiliation
<code>address2</code>	<i>optional</i>	address lines belonging to the author's 2nd affiliation

*Please note: Only one url, orcid and email can be provided per author.*

### Other YAML fields:

FIELD	TYPE	DESCRIPTION
<code>bibliography</code>	<i>with default</i>	the BibTeX file with the reference entries



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rsos_article	<i>Royal Society Open Science journal format.</i>
--------------	---

---

### Description

Format for creating submissions to Royal Society Open Science journals.

### Usage

```
rsos_article(
  ...,
  keep_tex = TRUE,
  latex_engine = "xelatex",
  pandoc_args = NULL,
  includes = NULL,
  fig_crop = TRUE
)
```

### Arguments

...	Additional arguments to <code>rmarkdown::pdf_document()</code>
keep_tex	Keep the intermediate tex file used in the conversion to PDF
latex_engine	LaTeX engine for producing PDF output. Options are "pdflatex", "lualatex", "xelatex" and "tectonic".
pandoc_args	Additional command line options to pass to pandoc
includes	Named list of additional content to include within the document (typically created using the <code>includes</code> function).
fig_crop	Whether to crop PDF figures with the command <code>pdfcrop</code> . This requires the tools <code>pdfcrop</code> and <code>ghostscript</code> to be installed. By default, <code>fig_crop = TRUE</code> if these two tools are available.

### Author(s)

Thierry Onkelinx, <thierry.onkelinx@inbo.be>

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rss_article	<i>Royal Statistical Society Journal Format</i>
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### Description

Format for creating articles for Royal Statistical Society adapted from <https://rss.org.uk/news-publication/publications/journals/submit-paper/>.

**Usage**

```
rss_article(..., keep_tex = TRUE, citation_package = "natbib")
```

**Arguments**

... Arguments to [rmarkdown::pdf\\_document\(\)](#)

keep\_tex Keep the intermediate tex file used in the conversion to PDF

citation\_package The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command `pandoc-citeproc`.

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