

# Package ‘journalabbr’

August 9, 2022

**Type** Package

**Title** Journal Abbreviations for BibTeX Documents

**Version** 0.4.0

**Description** Since the reference management software (such as 'Zotero', 'Mendeley') exports Bib file journal abbreviation is not detailed enough, the 'journalabbr' package only abbreviates the journal field of Bib file, and then outputs a new Bib file for generating reference format with journal abbreviation on other software (such as 'texstudio'). The abbreviation table is from 'JabRef'. At the same time, 'Shiny' application is provided to generate 'thebibliography', a reference format that can be directly used for latex paper writing based on 'Rmd' files.

**License** GPL (>= 3)

**URL** <https://github.com/zoushucai/journalabbr>

**BugReports** <https://github.com/zoushucai/journalabbr/issues>

**Encoding** UTF-8

**Depends** R (>= 4.2.0)

**Imports** data.table, stringr, purrr, httr, shiny, tidytable, stringi

**Suggests** testthat (>= 3.0.0), rclipboard, tinytex, DT, rmarkdown (>= 2.7), knitr (>= 1.33)

**RoxygenNote** 7.2.1

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**Config/testthat/edition** 3

**NeedsCompilation** no

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abbr_bib	<i>Journal field abbreviation of BibTeX file.</i>
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### Description

Input Bib file with complete journal, output a .bib file and return a data object.

Input Bib file with complete journal, output a .bib file, this function only carries out journal abbreviations, and the rest is output as it is.

### Usage

```
abbr_bib(
  file,
  out.file = tempfile(fileext = ".bib"),
  author.connect = c("nothing", "\\&", "&", "and"),
  user.csv = "",
  ...
)
```

```
abbr_bib_only_journal(
  file,
  out.file = tempfile(fileext = ".bib"),
  user.csv = "",
  ...
)
```

### Arguments

file	character, file path to write the .bib file.
out.file	character, file path to write the .bib file.
author.connect	character, what symbols are used to connect multiple authors, 'nothing', '\\&', '&', 'and', where 'nothing' stand for do nothing(default).
user.csv	character, csv file path, Users can customize the path of journal abbreviation. The csv file requires semicolon to segment data without header. The first column is the full name of the journal and the second column is the journal abbreviation.
...	(generalized), Parameters from <code>data.table::fread</code> .

**Value**

output a new Bib file and return a `data.table` object.

**Examples**

```
require(journalabbr)
path <- system.file("extdata", "testfile_2.bib", package = "journalabbr", mustWork = TRUE)
temptab <- abbr_bib(file = path, out.file = tempfile(fileext = ".bib"))

# add user csv
csvpath <- system.file("extdata", "myabbr.csv", package = "journalabbr", mustWork = TRUE)
temptab1 <- abbr_bib(file = path, out.file = tempfile(fileext = ".bib"), user.csv = csvpath)

# no return value
abbr_bib_only_journal(file = path, out.file = tempfile(fileext = ".bib"), user.csv = csvpath)
```

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add_abbrtable	<i>Add user's journal abbreviation table</i>
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**Description**

Add user's journal abbreviation table

**Usage**

```
add_abbrtable(file, ...)
```

**Arguments**

file	character, bib file path
...	see also <code>data.table::fread</code>

**Value**

a `data.table`

**Examples**

```
csvpath <- system.file("extdata", "myabbr.csv", package = "journalabbr", mustWork = TRUE)
abbrtable_user <- add_abbrtable(file = csvpath, header = FALSE, sep = ";")
colnames(abbrtable_user)
```

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read_bib2dt	<i>Parse a BibTeX file to a data.table.</i>
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### Description

The BibTeX file is read, parsed, tidied and written to a `data.table`.

### Usage

```
read_bib2dt(file)
```

### Arguments

`file` character, path or URL to a bib file.

### Details

Read, parse and collate bibtex file to form a `data.table`. Different BIB may produce different `data.table` columns.

### Value

A `data.table`.

### Author(s)

ShuCai Zou

### Examples

```
# Read from .bib file:
file1 <- system.file("extdata", "testfile_1.bib", package = "journalabbr", mustWork = TRUE)
dt1 <- read_bib2dt(file1)
colnames(dt1)

file2 <- system.file("extdata", "testfile_2.bib", package = "journalabbr", mustWork = TRUE)
dt2 <- read_bib2dt(file2)
colnames(dt2)
```

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replace\_field\_journal *Replace field journal with built-in data sets and user provided data sets.*

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### Description

Replace field journal with built-in data sets and user provided data sets.

Replace field author

### Usage

```
replace_field_journal(dt, abbrtable_user)

replace_field_author(
  dt,
  author.connect = c("nothing", "\\&", "&", "and")
)
```

### Arguments

dt is data.table, the object returned by the function read\_bib2dt.  
abbrtable\_user data.table, the object returned by the function add\_abbrtable.  
author.connect is character, what symbols are used to connect multiple authors, 'nothing', '\\&', '&', 'and', where 'nothing' stand for do nothing(default).

### Value

data.table  
data.table

### Examples

```
csvpath <- system.file("extdata", "myabbr.csv", package = "journalabbr", mustWork = TRUE)
abbrtable_user <- add_abbrtable(file = csvpath, header = FALSE, sep = ";")
colnames(abbrtable_user)

file <- system.file("extdata", "testfile_2.bib", package = "journalabbr", mustWork = TRUE)
dt <- read_bib2dt(file)

newdt <- replace_field_journal(dt, abbrtable_user)
newdt1 <- replace_field_author(dt, author.connect = "and")
newdt2 <- replace_field_author(dt, author.connect = "&")
```

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run_example	<i>The Shiny Program for the 'journalabbr' Package</i>
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**Description**

The Shiny Program for the 'journalabbr' Package

**Usage**

```
run_example()
```

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write_dt2bib	<i>Export a BibTeX data.table to a .bib file.</i>
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**Description**

The BibTeX data.table is written to a .bib file.

**Usage**

```
write_dt2bib(dt, file = tempfile(fileext = ".bib"))
```

**Arguments**

dt	data.table, in the format as returned by <a href="#">read_bib2dt</a> .
file	character, file path to write the .bib file.

**Value**

file as a character string, invisibly.

**Examples**

```
# Read from .bib file:
require(journalabbr)
file <- system.file("extdata", "testfile_2.bib", package = "journalabbr", mustWork = TRUE)
bib <- read_bib2dt(file)

# Write to .bib file:
write_dt2bib(bib, file = tempfile(fileext = ".bib"))
```

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