## Package 'roadoi'

March 4, 2022

**Title** Find Free Versions of Scholarly Publications via Unpaywall

Type Package

```
Version 0.7.2
Description
      This web client interfaces Unpaywall <a href="https://unpaywall.org/products/api">https://unpaywall.org/products/api</a>, formerly
      oaDOI, a service finding free full-texts of academic papers by linking DOIs with
      open access journals and repositories. It provides unified access to various data sources
      for open access full-text links including Crossref and the Directory of Open Access
      Journals (DOAJ). API usage is free and no registration is required.
License MIT + file LICENSE
URL https://docs.ropensci.org/roadoi/,
      https://github.com/ropensci/roadoi/
BugReports https://github.com/ropensci/roadoi/issues/
Imports httr, jsonlite, dplyr, plyr, purrr, tibble, miniUI, shiny (>=
      1.0.3), tidyr, rlang
Suggests roxygen2 (>= 6.0.1), testthat, knitr, covr, rmarkdown, lintr
RoxygenNote 7.1.1
VignetteBuilder knitr
NeedsCompilation no
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```

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## **R** topics documented:

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## **Description**

What is this client for?: roadoi interacts with the Unpaywall data service, which links DOIs representing scholarly works with open access versions.

#### **Details**

Use the oadoi\_fetch() function in this package to get open access status information and full-text links from Unpaywall.

You are welcome to contribute to this package. Use GitHub's issue tracker for bug reporting and feature requests.

More details about the Unpaywall API: https://unpaywall.org/products/api.

```
oadoi_fetch Fetch open access status information and full-text links using Unpaywall
```

## Description

This is the main function to retrieve comprehensive open access status information from Unpaywall data service. Please play nice with the API. For each user, 100k calls per day are suggested. If you need to access more data, there is also a data dump available. For more info see <a href="https://unpaywall.org/products/snapshot">https://unpaywall.org/products/snapshot</a>.

#### Usage

```
oadoi_fetch(
  dois = NULL,
  email = Sys.getenv("roadoi_email"),
  .progress = "none",
  .flatten = FALSE
)
```

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#### **Arguments**

dois character vector, search by a single DOI or many DOIs. A rate limit of 100k

requests per day is suggested. If you need to access more data, request the data

dump https://unpaywall.org/dataset instead.

character vector, mandatory! Unpaywall requires your email address, so that email

> they can track usage and notify you when something breaks. Set email address in your '.Renviron' file with the option 'roadoi\_email' options(roadoi\_email =

"najko.jahn@gmail.com"). You can open your '.Renviron' file calling 'file.edit("~/.Renviron")'.

Save the file and restart your R session. To stop sharing your email when using

rcrossref, delete it from your '.Renviron' file.

Shows the plyr-style progress bar. Options are "none", "text", "tk", "win", and .progress

"time". See create\_progress\_bar for details of each. By default, no progress

bar is displayed.

Simplify open access evidence output. If 'TRUE' it transforms the nested col-.flatten

> umn oa\_locations so that each open access evidence variable has its own column and each row represents a single full-text. Following these basic principles of "Tidy Data" makes data analysis and export as a spreadsheet more straightfor-

#### Value

oa\_status

The result is a tibble with each row representing a publication. Here are the returned columns and descriptions according to the API docu:

doi

DOI (always in lowercase).

best\_oa\_location list-column describing the best OA location. Algorithm prioritizes publisher hosted content (eg oa\_locations list-column of all the OA locations.

list-column of locations expected to be available in the future based on information like license oa\_locations\_embargoed

data\_standard Indicates the data collection approaches used for this resource. 1 mostly uses Crossref for hybri-

Is there an OA copy (logical)? is\_oa

Is the item an ancillary part of a journal, like a table of contents? See here for more information is\_paratext

genre Publication type

has\_repository\_copy Is a full-text available in a repository? Is the article published in a fully OA journal? journal\_is\_oa

journal\_is\_in\_doaj Is the journal listed in the Directory of Open Access Journals (DOAJ).

journal\_issns ISSNs, i.e. unique numbers to identify journals.

journal\_issn\_l Linking ISSN.

Journal title, not normalized. journal\_name Publisher, not normalized. publisher

published\_date Date published Year published. year Publication title. title

updated\_resource Time when the data for this resource was last updated.

Lists author information (family name, given name and author role sequence), if available. authors

Classifies OA resources by location and license terms as one of: gold, hybrid, bronze, green or of

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The columns best\_oa\_location. oa\_locations and oa\_locations\_embargoed are list-columns that contain useful metadata about the OA sources found by Unpaywall.

If .flatten = TRUE the list-column oa\_locations will be restructured in a long format where each OA fulltext is represented by one row.

These are:

endpoint\_id Unique repository identifier.

evidence How the OA location was found and is characterized by Unpaywall?

host\_type OA full-text provided by publisher or repository. is\_best Is this location the best\_oa\_location for its resource?

license The license under which this copy is published, e.g. Creative Commons license.

pmh\_id OAI-PMH endpoint where we found this location.

repository institution Hosting institution of the repository.

updated Time when the data for this location was last updated.

url The url\_for\_pdf if there is one; otherwise landing page URL.

url\_for\_landing\_page The URL for a landing page describing this OA copy.
url\_for\_pdf The URL with a PDF version of this OA copy.

version The content version accessible at this location following the DRIVER 2.0 Guidelines (https://

Note that Unpaywall schema is only informally described. Check also <a href="https://unpaywall.org/data-format">https://unpaywall.org/data-format</a>.

### **Examples**

oadoi\_fetch\_

Get open access status information.

## Description

In general, use oadoi\_fetch instead. It calls this method, returning open access status information from all your requests.

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#### Usage

```
oadoi_fetch_(doi = NULL, email = NULL)
```

#### **Arguments**

doi character vector, a DOI

email character vector, mandatory! Unpaywall requires your email address, so that

they can track usage and notify you when something breaks. Set email address in your '.Renviron' file with the option 'roadoi\_email' options(roadoi\_email =

"najko.jahn@gmail.com"). You can open your '.Renviron' file calling 'file.edit("~/.Renviron")'.

Save the file and restart your R session. To stop sharing your email when using

rcrossref, delete it from your '.Renviron' file.

#### Value

A tibble

#### **Examples**

```
## Not run:
oadoi_fetch_(doi = c("10.1016/j.jbiotec.2010.07.030"))
## End(Not run)
```

roadoi\_addin

Find OA copies with RStudio addin

## **Description**

An RStudio addin to call oadoi\_fetch(). Shows up as "Find free full-texts" in the RStudio addin menu.

## Usage

```
roadoi_addin()
```

#### **Details**

The addin works as follows:

- 1. Copy up to ten line-separated DOIs into the text area
- 2. Press the button "Run!"
- 3. Click on the links in the table to download full-text

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