

Package ‘roadoi’

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Type Package

Title Find Free Versions of Scholarly Publications via Unpaywall

Version 0.6

Description This web client interfaces Unpaywall <<https://unpaywall.org/products/api>>, 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.

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URL <https://github.com/ropensci/roadoi>

BugReports <https://github.com/ropensci/roadoi/issues>

LazyData TRUE

Imports httr, jsonlite, dplyr, plyr, purrr, tibble, miniUI, shiny (>= 1.0.3), tidyR

Suggests roxygen2 (>= 6.0.1), testthat, knitr, covr, rmarkdown, rcrossref, linter

RoxygenNote 6.1.1

VignetteBuilder knitr

NeedsCompilation no

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roadoi-package	<i>R Client for the Unpaywall-API</i>
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Description

R Client for the Unpaywall-API

What is this client for?

roadoi interacts with the Unpaywall data service, which links DOIs representing scholarly works with open access versions.

General usage

Use the `oadoi_fetch()` function in this package to get open access status information and full-text links from Unpaywall

Contribute

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

oadoi_fetch	<i>Fetch open access status information and full-text links using Unpaywall</i>
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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 <https://unpaywall.org/products/snapshot>.

Usage

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

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.
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 <code>‘.Renviron‘</code> file with the option <code>‘roadoi_email‘ options(roadoi_email = "najko.jahn@gmail.com")</code> . You can open your <code>‘.Renviron‘</code> file calling <code>‘file.edit("~/Renviron")‘</code> . Save the file and restart your R session. To stop sharing your email when using <code>crossref</code> , delete it from your <code>‘.Renviron‘</code> file.
.progress	Shows the plyr-style progress bar. Options are "none", "text", "tk", "win", and "time". See create_progress_bar for details of each. By default, no progress bar is displayed.

Value

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 Hybrid Open Access).
oa_locations	list-column of all the OA locations.
data_standard	Indicates the data collection approaches used for this resource. 1 mostly uses Crossref for hybrid de
is_oa	Is there an OA copy (logical)?
genre	Publication type
oa_status	Classifies OA resources by location and license terms as one of: gold, hybrid, bronze, green or close
has_repository_copy	Is a full-text available in a repository?
journal_is_oa	Is the article published in a fully OA journal?
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_issns_l	Linking ISSN.
journal_name	Journal title, not normalized.
publisher	Publisher, not normalized.
title	Publication title.
year	Year published.
published_date	Date published.
updated	Time when the data for this resource was last updated.
authors	Lists author information (if available).

The columns `best_oa_location` and `oa_locations` are list-columns that contain useful metadata about the OA sources found by Unpaywall.

These are:

evidence	How the OA location was found and is characterized by Unpaywall?
host_type	OA full-text provided by publisher or repository.
license	The license under which this copy is published, e.g. Creative Commons license.

url The URL where you can find this OA copy.
 versions The content version accessible at this location following the DRIVER 2.0 Guidelines (<https://wiki.surfnet.nl>)

To unnest list-columns, you want to use tidyr's unnest function [unnest](#).

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

Examples

```
## Not run:
oadoi_fetch("10.1038/nature12373", email = "name@example.com")
oadoi_fetch(dois = c("10.1016/j.jbiotec.2010.07.030",
"10.1186/1471-2164-11-245"), email = "name@example.com")

## End(Not run)
```

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.

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 `crossref`, 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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