

# Package ‘roadoi’

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**Type** Package

**Title** Find Free Versions of Scholarly Publications via the oaDOI Service

**Version** 0.4.1

**Description** This web client interfaces oaDOI <<https://oadoi.org>>, 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://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, lubridate, rcrossref

**RoxygenNote** 6.0.1

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

roadoi-package	2
oadoi_fetch	2
oadoi_fetch_	4
roadoi_addin	4

<b>Index</b>	<b>6</b>
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roadoi-package	<i>R Client for the oaDOI-API</i>
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### Description

R Client for the oaDOI-API

### What is this client for?

roadoi interacts with the oaDOI 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 oaDOI.

### Contribute

I would be very happy for people willing to contribute to this package. Use GitHub's issue tracker for bug reporting and feature requests.

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oadoi_fetch	<i>Fetch open access status information and full-text links from oaDOI</i>
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### Description

This is the main function to retrieve comprehensive open access status information from the oaDOI service. Please play nice with the API. At the moment only 100k request are suggested per user and day. For more info see <https://oadoi.org/api>.

### Usage

```
oadoi_fetch(dois = NULL, email = getOption("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 <a href="https://oadoi.org/api">https://oadoi.org/api</a> instead.
email	character vector, mandatory! oaDOI requires your email address, so that they can track usage and notify you when something breaks. Set email address in your '.Rprofile' file with the option 'roadoi_email' options(roadoi_email = "name@example.com").
.progress	Shows the plyr-style progress bar. Options are "none", "text", "tk", "win", and "time". See <a href="#">create_progress_bar</a> 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
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 detect
is_oa	Is there an OA copy (logical)?
journal_is_oa	Is the article published in a fully OA journal? Uses the Directory of Open Access Journals (DOAJ) as s
journal_issns	ISSNs, i.e. unique numbers to identify journals.
journal_name	Journal title, not normalized.
publisher	Publisher, not normalized.
title	Publication title.
year	Year published.
updated	Time when the data for this resource was last updated.
non_compliant	Lists other full-text resources that are not hosted by either publishers or repositories.

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

evidence	How the OA location was found and is characterized by oaDOI?
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 ( <a href="https://wiki.surfnet">https://wiki.surfnet</a> ).

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

**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)
```

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oadoi\_fetch\_ *Get open access status information.*

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### 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, required! It is strongly encourage to tell oaDOI your email adress, so that they can track usage and notify you when something breaks. Set email address in your <code>.Rprofile</code> file with the option <code>'roadoi_email'</code> options( <code>roadoi_email = "name@example.com"</code> )

### Value

A tibble

### Examples

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

## End(Not run)
```

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roadoi\_addin *Find OA copies with RStudio addin*

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### 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

# Index

\*Topic **package**

roadoi-package, [2](#)

create\_progress\_bar, [3](#)

oadoi\_fetch, [2](#), [4](#)

oadoi\_fetch\_, [4](#)

roadoi (roadoi-package), [2](#)

roadoi-package, [2](#)

roadoi\_addin, [4](#)

unnest, [3](#)