Package ‘iCiteR’

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Title A Minimal Wrapper Around NIH’s 'iCite' API

Version 0.2.1

Description A minimal wrapper around the NIH's 'iCite' API (https://icite.od.nih.gov/api).
Given a vector of pubmed IDs, this package returns a dataframe of the information yielded by
the 'iCite' API. The primary metrics yielded by 'iCite' are measurements of a paper's
scientific influence and translational potential, but the API also returns other meta-data
from the paper, including author names, publication journal, publication year, paper title,
doi, and a number of other citation metrics.

Depends R (>= 3.5)

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Encoding UTF-8

LazyData true

BugReports https://github.com/riddlet/iCiteR/issues

Imports httr (>= 1.4),

Suggests testthat, knitr, rmarkdown

RoxygenNote 6.1.1

VignetteBuilder knitr

NeedsCompilation no

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### Description

`get_metrics` takes a vector of PMIDs and returns the iCite information for them.

### Usage

```r
get_metrics(pmids)
```

### Arguments

- `pmids` character. A vector of pubmed IDs

### Value

All values from the iCite API reformatted into a dataframe. See [https://icite.od.nih.gov/api](https://icite.od.nih.gov/api) for details.

### Examples

```r
get_metrics('27599104')
```
icite_api

**Query the iCite api**

**Description**

*icite_api* returns the parsed results of a single call to the iCite API

**Usage**

```
icite_api(pmids)
```

**Arguments**

- **pmids** character vector. The pubmed ID to be queried

**Value**

If the call runs without error, the output is a simple S3 object

**Examples**

```
dat <- icite_api('27599104')
print(dat)
```

---

icite_search

**Query the iCite API using a search strategy**

**Description**

*icite_search* returns the parsed results of a single call to the iCite API

**Usage**

```
icite_search(year = NA, offset = NA, limit = NA)
```

**Arguments**

- **year** character or numeric. The year whose data you would like
- **offset** character. The minimum PMID you would like to have returned
- **limit** character. The maximum number of records you would like returned. There is a maximum of 1000 for a single call.

**Value**

If the call runs without error, the output is a simple S3 object
search_metrics

Examples

```r
dat <- icite_search(year=2012, offset = 18008027, limit=10)
print(dat)
```

print.icite_api

A simple print method for the icite_api function

Description

print.icite_api prints the data returned from the icite_api function

Usage

```r
## S3 method for class 'icite_api'
print(x, ...)
```

Arguments

- **x**: S3. The S3 object yielded from icite_api
- **...**: Additional arguments that would be passed to print

Examples

```r
dat <- icite_api('27599104')
print(dat)
```

search_metrics

Searches the icite database for entries that match the entered criteria

Description

search metrics takes a set of search criteria and returns a dataframe of the information yielded by the iCite API.

Usage

```r
search_metrics(year = NA, offset = NA, limit = NA, page = FALSE)
```

Arguments

- **year**: character or numeric. The year whose data you would like
- **offset**: character. The minimum PMID you would like to have returned
- **limit**: character. The maximum number of records you would like returned. There is a maximum of 1000 for a single call.
- **page**: logical. Do you want to continue paging through the API until there is no new data returned (paging without a limit may take several hours to complete)?
**Value**

All values from the icite_api reformatted into a dataframe. See [https://icite.od.nih.gov/api](https://icite.od.nih.gov/api) for details.

**Examples**

```python
search_metrics(year=2012, offset='1800000', limit='2000', page=True)
```
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