Package 'specieshindex'

June 15, 2021

```
Type Package
Title How (scientifically) popular is a given species?
Version 0.2.1
Date 2021-01-19
Author Jessica Tam
{\bf Maintainer}\ {\it Jessica}\ {\it Tam}\ {\it <} {\it tamtinying@gmail.com}{\it >}
Description Finds the h-index of a species.
Depends R (i = 3.5.0)
LazyData true
Imports rscopus,
     wosr,
     rbace,
     lens2r,
     taxize,
     dplyr,
     data.table,
     httr,
     XML,
     jsonlite,
     ggplot2,
     ggpubr
Suggests testthat,
     knitr,
     roxygen2,
     devtools,
     rmarkdown,
     {\bf RefManageR}
License MIT + file LICENSE
URL https://github.com/jessicatytam/specieshindex
RoxygenNote 7.1.1
VignetteBuilder knitr
Encoding UTF-8
```

2 Allindices

R topics documented:

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	Woylie	30
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	Spi10	$\frac{20}{27}$
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Description

This function returns a dataframe of the summary of all of the indices.

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Usage

```
Allindices(data, genus, species, sourcetype = 0)
```

Arguments

data The dataframe generated from FetchSpT or FetchSpTAK.

genus Genus classification from the binomial name.
species Species classification from the binomial name.

sourcetype Source type; default is 0, enter 1 to add SourceType variables.

Value

A datarame of all of the indices in the package.

Examples

```
data(Woylie)
Allindices(Woylie, genus = "genus_name", species = "species_name", sourcetype = 0)
```

CountSpT CountSpT wrapper

Description

This is a wrapper function for CountSpT_scopus, CountSpT_wos, CountSpT_base, and CountSpT_lens.

Usage

```
CountSpT(db, genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

db Literature database. Scopus ("scopus") or Web of Science ("wos") or

Base ("base") or Lens ("lens").

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers. Lens only.

Value

Search count of the species with the given genus and species.

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Examples

```
## Not run:
CountSpT("scopus", genus = "Osphranter", species = "rufus")

## End(Not run)
## Not run:
CountSpT("scopus", genus = "Osphranter", species = "rufus", synonyms = "Macropus rufus", additionalkeywords = "cons"
## End(Not run)
```

CountSpTAK

 $CountSpTAK \ wrapper$

Description

This is a wrapper function for CountSpTAK_scopus, CountSpTAK_wos, CountSpTAK_base, and CountSpTAk_lens.

Usage

```
CountSpTAK(db, genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

db Literature database. Scopus ("scopus") or Web of Science ("wos") or

Base ("base") or Lens ("lens").

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers. Lens only.

Value

Search count of the species with the given genus and species.

```
## Not run:
CountSpTAK("scopus", genus = "Osphranter", species = "rufus")

## End(Not run)

## Not run:
CountSpTAK("scopus", genus = "Osphranter", species = "rufus", synonyms = "Macropus rufus", additionalkeywords = "countSpTAK("scopus", genus = "Osphranter", species = "rufus", synonyms = "Macropus rufus", additionalkeywords = "countSpTAK("scopus", genus = "Osphranter")
```

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CountSpTAK_base

Search count from BASE - title, abstract and author keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via <code>gnr_resolve</code> to validate the genus and species names.

Usage

```
CountSpTAK_base(genus, species, synonyms, additionalkeywords)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.
synonyms Alternate species names.
additionalkeywords

0 /: 1

Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

```
## Not run:
CountSpTAK_base("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_base("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpTAK_base("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_base("bettongia", "penicillata", "conserv*")

## End(Not run)
```

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CountSpTAK_lens

Search count from Lens - title, abstract and author keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via gnr_resolve to validate the genus and species names.

Usage

```
CountSpTAK_lens(genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers.

token Lens token needed to access and download data from their database.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

```
## Not run:
CountSpTAK_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_lens("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpTAK_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results
```

 $CountSpTAK_scopus$

```
CountSpTAK_lens("bettongia", "penicillata", "conserv*")
## End(Not run)
```

CountSpTAK_scopus

Search count from Scopus - title, abstract, and keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract, and keywords. A check will be conducted via <code>gnr_resolve</code> to validate the genus and species names.

Usage

```
CountSpTAK_scopus(
  genus,
  species,
  synonyms,
  additionalkeywords,
  datatype = "application/xml"
)
```

Arguments

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

datatype Formats the URL to be sent to the API. The default is "application/xml".

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

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Examples

```
## Not run:
CountSpTAK_scopus("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_scopus("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpTAK_scopus("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_scopus("bettongia", "penicillata")

## End(Not run)
```

CountSpTAK_wos

Search count from Web of Science - title, abstract and author keywords

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title, abstract and author keywords. A check will be conducted via gnr_resolve to validate the genus and species names.

Usage

```
CountSpTAK_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

addition alkeywords

Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

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Examples

```
## Not run:
CountSpTAK_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_wos("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpTAK_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpTAK_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpT_base

Search count from BASE - title only

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via <code>gnr_resolve</code> to validate the genus and species names.

Usage

CountSpT_base(genus, species, synonyms, additionalkeywords)

Arguments

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

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Examples

```
## Not run:
CountSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpT_lens

Search count from Lens - title only

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via <code>gnr_resolve</code> to validate the genus and species names.

Usage

```
CountSpT_lens(genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers.

Value

Search count of the species with the given genus and species.

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References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

Examples

```
## Not run:
CountSpT_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_lens("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpT_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_lens("bettongia", "penicillata", "conserv*")

## End(Not run)
```

CountSpT_scopus

Search count from Scopus - title only

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via <code>gnr_resolve</code> to validate the genus and species names.

Usage

```
CountSpT_scopus(
  genus,
  species,
  synonyms,
  additionalkeywords,
  datatype = "application/xml"
)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

 $CountSpT_{-wos}$

```
additionalkeywords
```

Optional search terms.

datatype

Formats the URL to be sent to the API. The default is "application/xml".

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

Examples

```
## Not run:
CountSpT_scopus("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_scopus("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpT_scopus("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_scopus("bettongia", "penicillata", "conserv*")

## End(Not run)
```

 ${\tt CountSpT_wos}$

Search count from Web of Science - title only

Description

This function counts the total number of search results. It counts the publications with the binomial name in the title only. A check will be conducted via gnr_resolve to validate the genus and species names.

Usage

```
CountSpT_wos(genus, species, synonyms, additionalkeywords)
```

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Arguments

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords
Optional search terms.

Value

Search count of the species with the given genus and species.

References

Chamberlain, S. & Szocs, E. (2013). taxize - taxonomic search and retrieval in R. F1000Research, 2, 191.

Examples

```
## Not run:
CountSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata")

## End(Not run)

## Not run:
CountSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

CountSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

FetchSpT

 $FetchSpT\ wrapper$

Description

This is a wrapper function for FetchSpT_scopus, FetchSpT_wos, FetchSpT_base, and FetchSpT_lens.

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Usage

```
FetchSpT(
  db,
  genus,
  species,
  synonyms,
  additionalkeywords,
  language = 0,
  size = 50000
)
```

Arguments

db Literature database. Scopus ("scopus") or Web of Science ("wos") or or

Lens ("lens").

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

language Language of the paper; default is 0, enter 1 to retrieve the variable. Scopus

only.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers. Lens only.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpT("scopus", genus = "Osphranter", species = "rufus")

## End(Not run)
## Not run:
FetchSpT("scopus", genus = "Osphranter", species = "rufus", synonyms = "Macropus rufus", additionalkeywords = "cons"
## End(Not run)
```

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FetchSpTAK	FetchSpTAK	wrapper
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Description

This is a wrapper function for FetchSpTAK_scopus, FetchSpTAK_wos, FetchSpTAK_base, and FetchSpTAK_lens.

Usage

```
FetchSpTAK(
   db,
   genus,
   species,
   synonyms,
   additionalkeywords,
   language = 0,
   size = 50000
)
```

Arguments

db Literature database. Scopus ("scopus") or Web of Science ("wos") or

Lens ("lens").

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

language Language of the paper; default is 0, enter 1 to retrieve the variable. Scopus

only.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers. Lens only.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpTAK("scopus", genus = "Osphranter", species = "rufus")
## End(Not run)
## Not run:
```

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```
FetchSpTAK("scopus", genus = "Osphranter", species = "rufus", synonyms = "Macropus rufus", additionalkeywords = "co
## End(Not run)
```

FetchSpTAK_lens

Fetch data from Lens - title, abstract, and keywords.

Description

This function fetches citation information from Lens using genus and species name found in the title, abstract, and keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK_lens(genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

genus Genus classification from the binomial name. species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1.000 for non-subscribers.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpTAK_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results
FetchSpTAK_lens("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpTAK_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results
FetchSpTAK_lens("bettongia", "penicillata", "conserv*")

## End(Not run)
```

 $FetchSpTAK_scopus$

FetchSpTAK_scopus

Fetch data from Scopus - title, abstract and keywords

Description

This function fetches citation information from Scopus using genus and species name found in the title, abstract and keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK_scopus(genus, species, synonyms, additionalkeywords, language = 0)
```

Arguments

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

language Language of the paper; default is 0, enter 1 to retrieve the variable.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpTAK_scopus("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_scopus("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpTAK_scopus("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

FetchSpTAK_scopus("bettongia", "penicillata", "conserv*")

## End(Not run)
```

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FetchSpTAK_wos	Fetch data from Web of Science - title, abstract and author keywords.

Description

This function fetches citation information from Web of Science using genus and species name found in the title, abstract and author keywords of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpTAK_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus Genus classification from the binomial name.

species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpTAK_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results
FetchSpTAK_wos("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpTAK_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results
FetchSpTAK_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

FetchSpT_lens 19

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I C LCIIODI _	TCIIO

Fetch data from Lens - title only

Description

This function fetches citation information from Lens using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT_lens(genus, species, synonyms, additionalkeywords, size = 50000)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

size Maximum number of documents that can be downloaded depending on

the users token. Default is set to 50,000 for subscribers, the alternative

is 1,000 for non-subscribers.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpT_lens("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_lens("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpT_lens("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_lens("bettongia", "penicillata", "conserv*")

## End(Not run)
```

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FetchSpT_scopus

Fetch data from Scopus - title only

Description

This function fetches citation information from Scopus using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT_scopus(genus, species, synonyms, additionalkeywords, language = 0)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.

synonyms Alternate species names.

additionalkeywords

Optional search terms.

language Language of the paper; default is 0, enter 1 to retrieve the variable.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpT_scopus("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_scopus("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpT_scopus("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results

FetchSpT_scopus("bettongia", "penicillata", "conserv*")

## End(Not run)
```

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FetchSpT_wos

Fetch data from Web of Science - title only

Description

This function fetches citation information from Web of Science using genus and species name found in the title of the publications. Duplicates are to be removed by the user after fetching the data.

Usage

```
FetchSpT_wos(genus, species, synonyms, additionalkeywords)
```

Arguments

genus Genus classification from the binomial name.
species Species classification from the binomial name.
synonyms Alternate species names.
additionalkeywords

Optional search terms.

Value

A dataframe of the species' citation records with the given genus and species.

```
## Not run:
FetchSpT_wos("Bettongia", "penicillata")

#lower case letter in genus is also accepted and will return identical results
FetchSpT_wos("bettongia", "penicillata")

## End(Not run)

## Not run:
FetchSpT_wos("Bettongia", "penicillata", "conserv*")

#lower case letter in genus is also accepted and will return identical results
FetchSpT_wos("bettongia", "penicillata", "conserv*")

## End(Not run)
```

22 languages

Koala

Koala dataset

Description

Citation records of koala (Phascolarctos cinereus) from Scopus. Data was retrieved on 10 July 2020.

Usage

Koala

Format

A data frame with 773 rows and 20 variables

Source

http://api.elsevier.com/content/search/scopus

languages

Languages

Description

List of languages of documents found on Scopus. Data was retrieved on 9 March 2021.

Usage

languages

Format

A csv file with the complete list of languages of documents found on Scopus.

Source

https://www.elsevier.com/solutions/scopus/how-scopus-works/content

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Platypus

Platypus dataset

Description

Citation records of platypus (Ornithorhynchus anatinus) from Scopus. Data was retrieved on $10~\mathrm{July}~2020$.

Usage

Platypus

Format

A data frame with 321 rows and 20 variables

Source

```
http://api.elsevier.com/content/search/scopus
```

plotAllindices

Plot

Description

Plots the data of a single species or combined.

Usage

```
plotAllindices(data)
```

Arguments

data

The dataframe generated from Allindices.

Value

ggplot

```
W <- Allindices(Woylie, genus = "Bettongia", species = "penicillata")
Q <- Allindices(Quokka, genus = "Setonix", species = "brachyurus")
P <- Allindices(Platypus, genus = "Ornithorhynchus", species = "anatinus")
K <- Allindices(Koala, genus = "Phascolarctos", species = "cinereus")
CombineSp <- dplyr::bind_rows(W, Q, P, K)
plotAllindices(CombineSp)</pre>
```

SourceType

Quokka

 $Quokka\ dataset$

Description

Citation records of quokka (Setonix brachyurus) from Scopus. Data was retrieved on 10 July 2020.

Usage

Quokka

Format

A data frame with 242 rows and 20 variables

Source

http://api.elsevier.com/content/search/scopus

SourceType

Source type

Description

This function calculates the total number of items for each document type.

Usage

```
SourceType(data)
```

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

A dataframe with each document and their counts.

```
data(Woylie)
SourceType(Woylie)
```

SpH5 25

SpH5 Species h5 index

Description

This function calculates the h-index of a species in the past 5 years.

Usage

SpH5(data)

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

H5 index.

References

Suzuki, H. (2012). *Google Scholar Metrics for Publications*. Retrieved from https://scholar.googleblog.com/2012/04/google-scholar-metrics-for-publications.html.

Examples

```
data(Woylie)
SpH5(Woylie)
```

SpHAfterdate

Species h-index with a given time frame

Description

This function calculates the h-index using a given date up till the newest record.

Usage

```
SpHAfterdate(data, date)
```

Arguments

data The dataframe generated from FetchSpT or FetchSpTAK.

date The lower limit of the timeframe.

26 SpHindex

Value

H-index of the given time period.

Examples

```
data(Woylie)
SpHAfterdate(Woylie, "2000-01-01")
```

SpHindex

Species h-index

Description

This function calculates the h-index of a species.

Usage

```
SpHindex(data)
```

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

H-index.

References

Bertoli-Barsotti, L. & Lando, T. (2015). On a formula for the h-index. *Journal of Informetrics*, 9(4), 762-776.

Hirsch, J. (2005). An index to quantify an individual's scientific research output. Proceedings of the National Academy of Sciences of the United States of America, 102(46), 16569-16572.

```
data(Woylie)
SpHindex(Woylie)
```

Spi10 27

Spi10

Species i10 index

Description

This function calculates the i10 index of a species. i10 index counts all of the publications with 10 or more citations.

Usage

Spi10(data)

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

i10 index.

References

Cornell University (2019). *i10-index*. Retrieved from https://guides.library.cornell.edu/c.php?g=32272&p=203393.

Examples

```
data(Woylie)
Spi10(Woylie)
```

SpMindex

 $Species\ m ext{-}index$

Description

This function calculates the m-index of species. M-index uses the h-index and divides it by the number of years of activity.

Usage

SpMindex(data)

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

28 TotalCite

Value

M-index.

References

University of Pittsburgh (2019). Research Impact and Metrics: Author metrics. Retrieved from https://pitt.libguides.com/bibliometricIndicators/AuthorMetrics.

Examples

```
data(Woylie)
SpMindex(Woylie)
```

TotalCite

Total citations

Description

This function calculates the total number of citations.

Usage

```
TotalCite(data)
```

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

A numerical value of the total number of citations.

```
data(Woylie)
TotalCite(Woylie)
```

Total Journals 29

TotalJournals

 $Total\ journals$

Description

This function calculates the total number of journals.

Usage

```
TotalJournals(data)
```

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

An integer of the total number of journals.

Examples

```
data(Woylie)
TotalJournals(Woylie)
```

TotalPub

 $Total\ publications$

Description

This function calculates the total number of publications.

Usage

TotalPub(data)

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

An integer of the total number of publications.

```
data(Woylie)
TotalPub(Woylie)
```

30 YearsPublishing

Woylie

 $Woylie\ dataset$

Description

Citation records of woylie (Bettongia penicillata) from Scopus. Data was retrieved on 10 July 2020.

Usage

Woylie

Format

A data frame with 113 rows and 20 variables

Source

http://api.elsevier.com/content/search/scopus

YearsPublishing

Years since first publication

Description

The number of years since the first publication in relation to the species.

Usage

YearsPublishing(data)

Arguments

data

The dataframe generated from FetchSpT or FetchSpTAK.

Value

Number of years.

```
data(Woylie)
YearsPublishing(Woylie)
```

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