

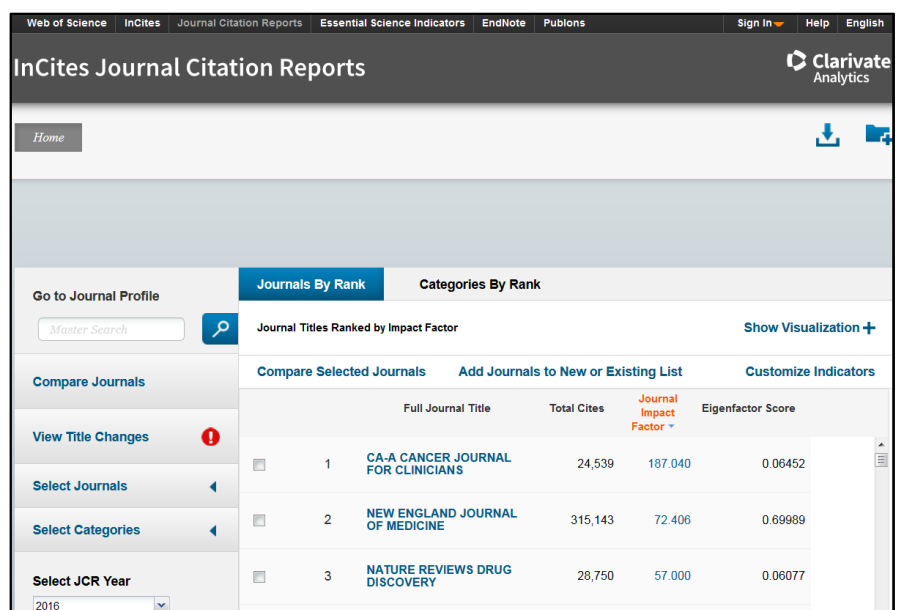
## Where do I start? – Measuring research impact

You can measure research impact through citation analysis. You may want to evaluate and compare journals or see how often a particular author or paper has been cited.

### Journals

#### Incites Journal Citation Reports (JCR)

Journals are rated for quality. To help you decide which journals to publish in, you can use the Incites Journal Citation Reports database from Clarivate Analytics. JCR uses a number of measures to evaluate and compare journals. For example the journal impact factor compares a journal's relative importance to others in the same field. This is done by measuring the frequency with which the average article in a journal has been cited within a particular year. You can find this database and a guide to using it through searching by title on SUPrimo or using the lists of databases at: <http://guides.lib.strath.ac.uk/az.php>



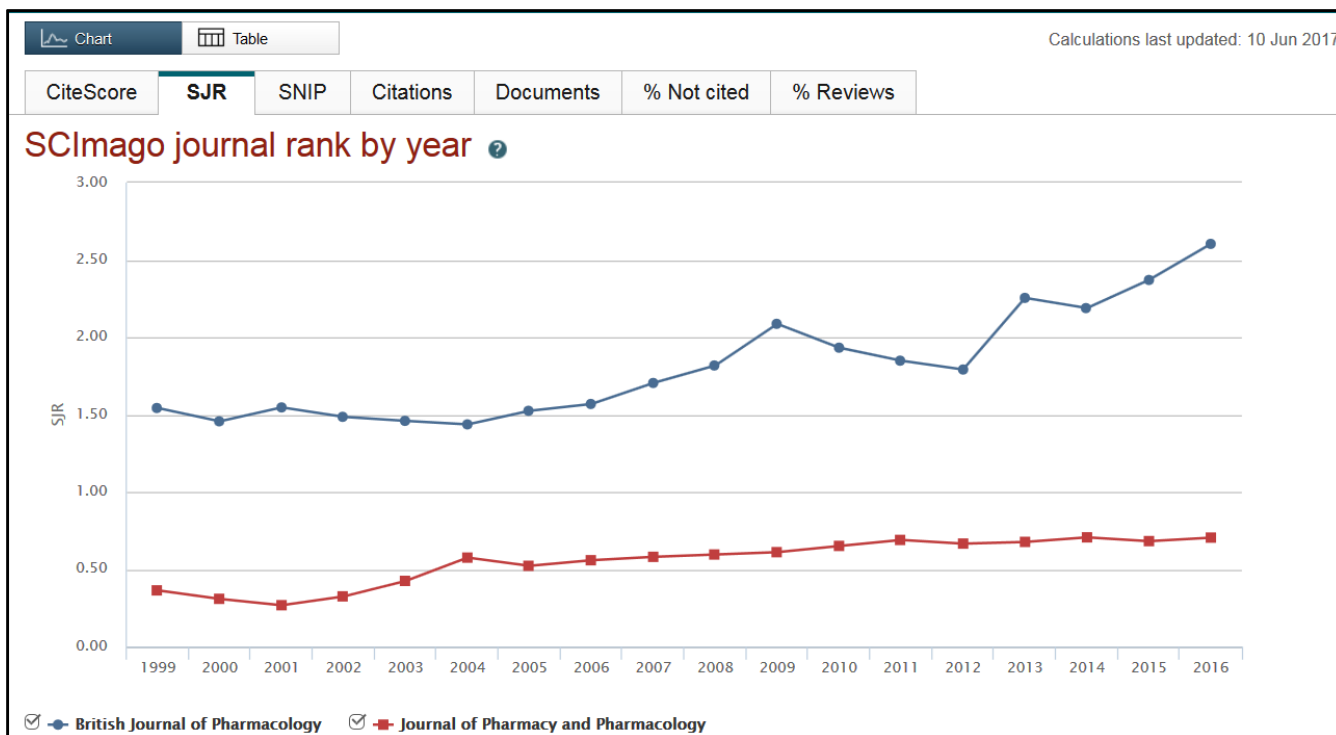
The screenshot shows the 'InCites Journal Citation Reports' interface. It features a navigation bar with options like 'Web of Science', 'InCites', 'Journal Citation Reports', 'Essential Science Indicators', 'EndNote', 'Publons', 'Sign In', 'Help', and 'English'. The main content area is titled 'InCites Journal Citation Reports' and includes a 'Home' button, a search bar, and a table of journals ranked by impact factor. The table has columns for 'Full Journal Title', 'Total Cites', 'Journal Impact Factor', and 'Eigenfactor Score'. Three journals are listed:

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	CA-A CANCER JOURNAL FOR CLINICIANS	24,539	187.040	0.06452
2	NEW ENGLAND JOURNAL OF MEDICINE	315,143	72.406	0.69989
3	NATURE REVIEWS DRUG DISCOVERY	28,750	57.000	0.06077

#### Scopus – Compare Sources

Scopus Compare Sources compares the content and performance of up to ten sources at a time using ranking metrics fields.

- CiteScore calculates the average number of citations received in a calendar year by all items published in that source in the preceding three years.
- The SJR (SCImago Journal Rank) is weighted by the prestige of a journal, so a citation from a source with a high SJR is worth more.
- SNIP (Source Normalized Impact per Paper) weights citations based on the total number of citations in a subject field so you can compare sources across different fields.
- Citations compares sources by the number of documents published in a year.
- Documents compare sources by the number of documents published in a year.
- % Not Cited compare sources by the percentage of documents published in a year that have never been cited to date.
- % Reviews compare sources by the percent of articles that are review articles.



Detailed information about Scopus journal metrics can be found at:

<https://www.elsevier.com/solutions/scopus/features/metrics>

You can find Scopus and a guide to using it through searching by title on SUPrimo or using the lists of databases at: <http://guides.lib.strath.ac.uk/az.php>

## Authors

### Web of Science - Citation report

You can create a citation report from your Web of Science Core Collection search results if you have 10,000 or less results. Go to the alphabetical list of databases, choose Web of Science and login using your DS username and password. Carry out a search. Choose the Create Citation Report link to the right of your results. The graphs illustrate the number of published items and the number of citations per year. Summary information about the results includes average citation per article, the h-index and the total number of citations. Below this information, the papers are listed with the most cited first. For each paper you can see the times cited per year, the total number of citations and the average number of citations. These citation counts only cover papers that are indexed in Web of Science Core Collection.

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Sign In Help English

# Web of Science

Clarivate Analytics

Search Search Results My Tools Search History Marked List

Citation report for 810 results from Web of Science Core Collection between 1900 and 2018 Go

You searched for: TOPIC: (chemistry) AND ORGANIZATION-ENHANCED: (University of Strathclyde) ...More

This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Export Data: Save to Excel File

**Total Publications**

**810**

1999 2018

**h-index**

**72**

Average citations per item

**31.94**

**Sum of Times Cited**

**25,875**

Without self citations

**24,101**

**Citing articles**

**18,989**

Without self citations

**18,585**

**Sum of Times Cited per Year**

Sort by: Times Cited Date More Page 1 of 81

2014	2015	2016	2017	2018	Total	Average Citations per Year
2286	1995	2173	2237	551	25875	616.07

Use the checkboxes to remove individual items from this Citation Report

or restrict to items published between 1900 and 2018 Go

## H-index

The h-index was developed by US Physicist Jorge Hirsch and is a measure of an individual's scientific research output. A scholar with an index of 'h' has published 'h' papers and each paper has received at least 'h' cites by others. It therefore takes account of the number of papers and number of citations per paper. The h-index can be used only to compare scholars working in the same field. H-index is available through Web of Science and Scopus.

## Scopus – Author Evaluator

You can analyse an author's publishing output with charts covering documents, citations and h-index. Use the Author Search form, then select the link to the name of the author you want to evaluate to view this author's profile.

**Documents (146)**

*h*-index (36)

Citations (4540)

Co-authors (150)

by source

by type

by year

by subject area

## Web of Science – Cited Reference Search

Citation searching lets you search forward in time from an older paper to find more recent papers that have cited this older paper. It can be used to:

- Find out how often your work has been cited by others to give you an idea of its impact
- Track the development of ideas and topics over time
- Find papers on a similar subject area
- Identify other researchers working in the same field to facilitate collaboration

Use the down arrow next to Basic Search to choose Cited Reference Search from the Web of Science Core Collection database. Enter details of the Cited Author, Cited Work and Cited Year and click on Search. Tick the box(es) next to the relevant work and click on Finish Search. The screenshot shows a cited reference search for citations to an article by Prof Kevin O'Donnell which was published in Physical Review Letters in 1999.

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publians Sign In Help English

Clarivate Analytics

Search My Tools Search History Marked List

### Cited Reference Search

Find the articles that cite a person's work.

Step 2: Select cited references and click "Finish Search."

Hint: Look for cited reference variants (sometimes different pages of the same article are cited or papers are cited incorrectly).

CITED REFERENCE INDEX  
References: 1 - 1 of 1

Showing 75 results per page Page 1 of 1

\*"Select All" adds the first 1000 matches to your cited reference search, not all matches.

Select Page Select All \* Clear Export Table Finish Search

Select	Cited Author	Cited Work [Expand Titles]	Title [Expand Titles]	Year	Volume	Issue	Page	Identifier	Citing Articles**
<input type="checkbox"/>	O'Donnell, KP + [Show all authors]	PHYS REV LETT	Origin of luminescence from InGaN diodes	1999	82	1	237	DOI: 10.1103/PhysRevLett.82.237	449

\*"Select All" adds the first 1000 matches to your cited reference search, not all matches.  
\*\* Citing Article counts are for all databases and all years, not just for your current databases and year limits.

## Google Scholar – Cited by

Google Scholar <https://scholar.google.co.uk/> also offers citation searching. Search results have a 'Cited by' link, which gives the number of other articles that have cited that article and links to those articles. The screenshot shows a search on Google Scholar for zika virus outbreak. The first article shown (Zika virus outbreak, Bahia, Brazil) has been cited 668 times.

Google Scholar zika virus outbreak

Articles About 98,200 results (0.03 sec)

Any time Since 2018 Since 2017 Since 2014 Custom range...

Sort by relevance Sort by date

include patents  include citations

Create alert

[HTML] **Zika virus outbreak, Bahia, Brazil** [HTML] nih.gov  
GS Campos, AC Bandeira, SJ Sardi - Emerging infectious diseases, 2015 - ncbi.nlm.nih.gov  
Full Text @ Strathclyde

[HTML] **Zika virus outbreak on Yap Island, federated states of Micronesia** [HTML] nejm.org  
MR Duffy, TH Chen, WT Hancock... - England Journal of ..., 2009 - Mass Medical Soc  
Full Text @ Strathclyde

[HTML] **Guillain-Barré Syndrome outbreak associated with Zika virus infection in French Polynesia: a case-control study** [HTML] sciencedirect.com  
VM Cao-Lormeau, A Blake, S Mons, S Lastère... - The Lancet, 2016 - Elsevier  
Full Text @ Strathclyde

## Altmetrics

Altmetrics <http://altmetrics.org/manifesto> are new metrics that been developed to compliment the more traditional metrics. They aim to show the impact of research by counting the number of times a paper has been discussed or shared via social media tools such as Twitter, Linked-In and Mendeley.

## Further Help

See the Research Support LibGuide for further help with measuring research impact:  
[http://guides.lib.strath.ac.uk/research\\_support](http://guides.lib.strath.ac.uk/research_support)