RESEARCHER@LIBRARY THE UNIVERSITY LIBRARY

Evaluating the importance of journals in your subject area

Contents

Part 1: Introduction	2
Key journal metrics	2
Journal Impact Factor	2
SCImago Journal Rank (SJR)	3
Scopus Source Normalised Impact per Paper (Scopus SNIP)	3
Issues to consider when using journal metrics	3
Part 2: Finding journal metrics	5
Journal Impact Factor	5
Accessing Journal Citation Reports:	5
View a group of journals by subject	5
Search for a specific journal	6
SCImago Journal Rank and Scopus SNIP	7
Accessing Scopus	7
Searching for a journal	7
Further help	9



Parts of this guide are based on resources from MyRi: http://www.ndlr.ie/myri/



Part 1: Introduction

Bibliometric analysis is becoming an increasingly important way to measure and assess research impact of individuals, groups of individuals or institutions.

This guide aims to show you how to use bibliometric tools to evaluate the importance of journals in your subject area. Identifying important/influential journals in your subject can help you when deciding where you will publish your research. Publishing your research in a journal which is considered important/influential may help to make your research more visible and therefore increase the reach of your publications.

If you would like to know more about what bibliometrics is, why you may want to use bibliometrics, what the main metrics are, what tools are available to gather bibliometric data and what the limitations of bibliometrics are, please refer to the Bibliometrics webpages: <u>https://library.leeds.ac.uk/researcher-bibliometrics-about</u>

Key journal metrics

The impact of a journal depends on how often articles in that journal are cited by other academic publications. The more that journal is cited, the greater its impact. There are a number of journal metrics you can use to evaluate the importance of journals:

Journal Impact Factor

Journal impact factors are calculated from data held in Journal Citation Reports (available via Web of Science) and is an alternative to the SCImago Journal Rank and Scopus SNIP. Journal Citation Reports covers more than 10,500 journal titles, representing over 2500 publishers worldwide in over 230 disciplines. Journal Citations Reports lists journal titles and assigns an impact factor to each title.

Over a two-year period, the number of citations to a particular journal is divided by the number of articles published in that journal. For example, for 2012 impact factors the following formula was used:

2012 Journal Impact Factor = Number of times articles published in the journal Mumber of times articles published in the journal <u>during 2010 and 2011 were cited during 2012</u> Total number of articles published in the particular journal during 2010 and 2011

The Journal Impact Factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field.

Part 2 of this workbook will show you how to find Journal Impact Factors.

SCImago Journal Rank (SJR)

SJR is calculated from data held in Scopus and it is an alternative to the Journal Impact Factor and Scopus SNIP. It is a measure of scientific influence of journals that accounts for both the number of citations received by a journal and the importance or prestige of the journals where such citations come from. With SJR, the subject field, quality and reputation of the journal have a direct effect on the value of a citation. Scopus provides journal metrics values to all peer-reviewed journals indexed in the database.

SJR expresses the average number of weighted citations received in the selected year by the documents published in the selected journal in the three previous years.

For more detailed information about SJR please visit the SJR pages: <u>http://www.journalmetrics.com/sjr.php</u>.

Part 2 of this workbook will show you how to find the SJR of a journal.

Scopus Source Normalised Impact per Paper (Scopus SNIP)

Scopus SNIP is calculated from data held in Scopus and it is an alternative to the Journal Impact Factor and SJR. It measures contextual citation impact by weighting citations based on the total number of citations in a subject field. Citation practices can vary significantly from one field to another, SNIP corrects for those differences, i.e. it normalises for subject differences.

The Scopus SNIP is defined as the ratio of a journal's citation count per paper and the citation potential in its subject field.

For more detailed information about Scopus SNIP please visit the Scopus SNIP pages: <u>http://www.journalmetrics.com/snip.php</u>.

Part 2 of this workbook will show you how to find the Scopus SNIP for a journal.

Issues to consider when using journal metrics

There are a number of issues to consider when using journal metrics:

- A large number of citations does not automatically mean that a work is of high quality. A work may be heavily cited because many other authors are refuting its research
- Beware of citation bias. People may cite their own work or work from the journals in which they publish
- An impact factor is a measure of average citation impact, not individual author citation impact. Therefore an impact factor cannot be used to measure the performance of an author
- Time needs to elapse before a meaningful citation analysis can be made, so new journals tend to fare badly
- Not all research work is published and cited in the citation indices. For example conference proceedings are often poorly covered

- There is a bias towards English language material
- Different fields of research publish at different rates. Some disciplines such as the arts, humanities and social sciences rely less on publishing in journals.

Part 2: Finding journal metrics

This section will show you how to find the key journal metrics using Journal Citation Reports and Scopus.

Journal Impact Factor

Journal Impact Factors are available from Journal Citation Reports (via Web of Science)

Accessing Journal Citation Reports:

- Go to the Library homepage at http://library.leeds.ac.uk/.
- Type Journal Citation Reports into the Library Catalogue search box and click on search
- · From the results page, click on 'Journal citation reports: social science edition'
- Click on 'Journal Citation Reports: social science edition Thomson Reuters' in the 'Available online' box
- Depending on where you are (e.g. off campus), you may be required to log in with your ISS username and password
- You will then be logged into Web of Science
- Click on 'Journal Citation Reports' at the top of the page:

Web of Science™	InCites ®	Journal Citation Reports®	Essential Science Indicators SM	EndNote ®				
WEB O	WEB OF SCIENCE [™]							
Search	Web of So	cience [™] Core Collectio	n 🔽					

- You can either search the Science Edition or the Social Science Edition depending on your subject area.
- You can search for a specific journal, view a group of journals (by subject category, publisher or country) or view all journals.

View a group of journals by subject

• Ensure you have the 'View a group of journals by subject category' selected and click on 'submit':



• Select a category/categories you are interested in

- 'View Journal Data' will display the impact information for the individual journals in the category. There is the option to sort by title, impact factor, total cites, etc
- 'View Category Data' will display the category-level information, which is useful if you want to compare many categories at once
- Click submit:

2) Select to view Journal data	categories from the list. CRYSTALLOGRAPHY (How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY DEVELOPMENTAL BIOLOGY ECOLOGY EDUCATION, SCIENTIFIC DISCIPLINES ELECTROCHEMISTRY	2) Select to view Journal data or aggregate Category data.	EMERGENCY MEDICINE View Journal Data - sort by: Journal Title	•	
or aggregate Category data.	categories from the list. CRITICAL CARE MEDICINE CRYSTALLOGRAPHY (How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY DEVELOPMENTAL BIOLOGY ECOLOGY EDUCATION, SCIENTIFIC DISCIPLINES ELECTROCHEMISTRY EMERGENCY MEDICINE 2) Select to view Journal data or aggregate Category data. Image: Category data		View Category Data - sort by: Category Title		•
2) Select to view Journal data	categories from the list. CRITICAL CARE MEDICINE CRYSTALLOGRAPHY (How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY DEVELOPMENTAL BIOLOGY ECOLOGY EDUCATION, SCIENTIFIC DISCIPLINES ELECTROCHEMISTRY EMERGENCY MEDICINE	 Select to view Journal data or aggregate Category data. 	 View Journal Data - sort by: Journal Title View Category Data - sort by: Category Title 	T	•
	categories from the list. CRYSTALLOGRAPHY (How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY DEVELOPMENTAL BIOLOGY		EDUCATION, SCIENTIFIC DISCIPLINES		
EDUCATION, SCIENTIFIC DISCIPLINES	categories from the list. CRYSTALLOGRAPHY (How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY		DEVELOPMENTAL BIOLOGY		
DEVELOPMENTAL BIOLOGY ECOLOGY EDUCATION, SCIENTIFIC DISCIPLINES	categories from the list.	(How to select more than one)	DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY		
(How to select more than one) DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY DEVELOPMENTAL BIOLOGY ECOLOGY EDUCATION, SCIENTIFIC DISCIPLINES		categories from the list.	CRITICAL CARE MEDICINE CRYSTALLOGRAPHY		

• You will be presented with a table displaying journal metrics (including the Journal Impact Factor) for the journals in the selected categories:

Rank Abbreviated Journal Titi (linked to journal information			JCR Data (j)						Eigenfactor [®] Metrics j	
	Abbreviated Journal Title (linked to journal information)	itle ISSN tion)	Total Cites	Impact Factor	ō-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	<i>Eigenfactor®</i> Score	Article Influence [®] Score
1	ACTA ODONTOL SCAND	0001-6357	2581	1.309	1.617	0.265	238	>10.0	0.00247	0.467
2	AM J DENT	0894-8275	1748	1.062	1.504	0.352	71	9.5	0.00240	0.404
3	AM J ORTHOD DENTOFAC	0889-5406	8960	1.437	1.997	0.209	196	>10.0	0.01230	0.591
4	ANGLE ORTHOD	0003-3219	3904	1.277	1.491	0.245	147	9.0	0.00703	0.527
5	ARCH ORAL BIOL	0003-9969	5529	1.880	1.852	0.192	219	>10.0	0.00741	0.498
6	AUST DENT J	0045-0421	1640	1.482	1.833	0.184	87	7.5	0.00320	0.516
7	AUST ENDOD J	1329-1947	195	0.744	1.000	0.031	32	5.1	0.00061	0.327
8	AUST ORTHOD J	0587-3908	143	0.269	0.403			8.7	0.00041	0.189
	Rank 1 2 3 4 5 6 7 8	RankAbbreviated Journal Title (linked to journal information)1ACTA ODONTOL SCAND2AM J DENT3AM J ORTHOD DENTOFAC4ANGLE ORTHOD5ARCH ORAL BIOL6AUST DENT J7AUST ENDOD J8AUST ORTHOD J	RankAbbreviated Journal Title (linked to journal information)ISSN1ACTA ODONTOL SCAND0001-63572AM J DENT0894-82753AM J ORTHOD DENTOFAC0889-54064ANGLE ORTHOD0003-32195ARCH ORAL BIOL0003-96996AUST DENT J0045-04217AUST ENDOD J1329-19478AUST ORTHOD J0587-3908	RankAbbreviated Journal Title (linked to journal information)ISSNInformation1ACTA ODONTOL SCAND0001-635725832AM J DENT0894-827517483AM J ORTHOD DENTOFAC0889-5406896004ANGLE ORTHOD0003-321939045ARCH ORAL BIOL0003-969955296AUST DENT J0045-0421164007AUST ENDOD J1329-194719558AUST ORTHOD J0587-39081433	RankAbbreviated Journal InformationISSNImpact Total Cites1ACTA ODONTOL SCAND0001-63572581.0092AM J DENT0894-8275117481.0623AM J ORTHOD DENTOFAC0889-5406889601.4374ANGLE ORTHOD0003-321939041.2775ARCH ORAL BIOL0003-906955291.8806AUST DENT J0045-0421106401.4827AUST ENDOD J1329-19471950.7448AUST ORTHOD J0587-39081430.269	Abbreviated Journal Information)ISSNImpact Total CitesImpact Factor1ACTA ODONTOL SCAND0001-63572581.0622AM J DENT0894-82751.7481.0623AM J ORTHOD DENTOFAC0889-5406889601.4374ANGLE ORTHOD0003-32193.0041.2775ARCH ORAL BIOL0003-906955291.8806AUST DENT J045-04211.06401.4827AUST ENDOD J1329-19471.950.7448AUST ORTHOD J0587-39081.430.269	RankAbbreviated Journal InformationISSNImpactJmpact <th< td=""><td>RankAbbreviated Journal InformationISSNImpact Total CitesJumpact FactorJumediacy IndexArticles1ACTA ODONTOL SCAND0001-63572581.6021.6170.02652.382AM J DENT0894-82751.17481.0621.5040.03.527.113AM J ORTHOD DENTOFAC0889-540688961.4371.9970.0201.9164ANGLE ORTHOD003-32193.9041.2771.4910.2451.1475ARCH ORAL BIOL003-906955291.8881.8520.0182.196AUST DENT J045-04211.01641.4821.8330.0.183.1327AUST ENDOD J0587-39081.4330.2690.4030.4031.414</td><td>RankAbbreviated Journal InformationISSNImpact Total CitesJRepact FactorJRemediacy IndexArticlesCited Half-life1ACTA ODONTOL SCAND0001-6357258-1.0001.6170.02652.38>10.002AM J DENT0894-82751.7481.0621.5040.03.520.719.003AM J ORTHOD DENTOFAC0889-540688901.4371.9970.0.2091.916>10.004ANGLE ORTHOD003-32193.9041.2771.4910.02451.4179.005ARCH ORAL BIOL003-96955291.8881.8520.01922.19>10.006AUST DENT J045-04211.16401.4821.8330.0.188.873.757AUST ENDOD J1329-19471.9150.7441.0000.0.313.25.118AUST ORTHOD J0587-39081.4130.2690.4031.4101.4103.87</br></td><td>Abbreviated Journal InformationISSNImpact Total CitesJerne JunctorImpact ImpactJerne JunctorImpact ImpactJerne JunctorImpact ImpactJerne JunctorImpact ImpactImpact I</td></th<>	RankAbbreviated Journal InformationISSNImpact Total CitesJumpact FactorJumediacy IndexArticles1ACTA ODONTOL SCAND0001-63572581.6021.6170.02652.382AM J DENT0894-82751.17481.0621.5040.03.527.113AM J ORTHOD DENTOFAC0889-540688961.4371.9970.0201.9164ANGLE ORTHOD003-32193.9041.2771.4910.2451.1475ARCH ORAL BIOL003-906955291.8881.8520.0182.196AUST DENT J045-04211.01641.4821.8330.0.183.1327AUST ENDOD J0587-39081.4330.2690.4030.4031.414	RankAbbreviated Journal InformationISSNImpact Total CitesJRepact FactorJRemediacy IndexArticlesCited 	Abbreviated Journal InformationISSNImpact Total CitesJerne JunctorImpact ImpactJerne JunctorImpact ImpactJerne JunctorImpact ImpactJerne JunctorImpact ImpactImpact I

Search for a specific journal

• From the JCR homepage select 'Search for a specific journal' and click on 'Submit':

Select a JCR edition and year:	Select an option:					
 JCR Science Edition 2013 - JCR Social Sciences Edition 2013 - 	 View a group of journals by Subject Category - Search for a specific journal View all journals 					
SUB	MIT					

• Type in the name of the journal you are looking for and click 'search':

1) Search by:	2) Type search term:						
Full Journal Title	Enter words from journal title or ISSN (view list of full journal titles) Archives of oral biology SEARCH						

 You will be presented with journal metrics (including the Journal Impact Factor) for that particular journal:

				JCR Data (j)						Eigenfactor [®] Metrics j	
Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	<i>Eigenfactor®</i> Score	Article Influence [®] Score
	1	ARCH ORAL BIOL	0003-9969	5529	1.880	1.852	0.192	219	>10.0	0.00741	0.498

SCImago Journal Rank and Scopus SNIP

SCImago Journal Rank and Scopus SNIP are both available via Scopus.

Accessing Scopus

- Go to the Library homepage at http://library.leeds.ac.uk/
- Type Scopus into the Library Catalogue search box and click on search
- From the results page, click on Scopus.
- Depending on where you are (e.g. off campus), you may be required to log in with your ISS username and password

Searching for a journal

• From the Scopus homepage, click on 'Compare Journals':

Document search Author search Affiliation search Advanced search Browse Sources						
Search for Eg., "heart attack" AND stress A	rticle Title, Abstract, Keywords		٩			
Limit to:						
Date Range (inclusive) Published All years to Present Added to Scopus in the last T days Subject Areas	Document Type	Ŧ				
 ✓ Life Sciences (> 4,300 titles.) ✓ Health Sciences (> 6,800 titles. 100% Medline coverage) 	 Physical Sciences (> 7,200 titles.) Social Sciences & Humanities (> 	5,300 titles.)				

• Enter the name of a journal you are interested in analysing and tick the SJR or SNIP checkbox:

Compare journals Searc	h for and choose up to 10 journals to analyze and compare.
Archives of oral biology Show: SIR SNIP SNIP	Journal Title V Limit to: All Subject areas

• Tick the checkbox next to the journal name to add to the graph:



- If you want to compare journals in your subject area, search for them individually and tick the checkbox next to the journal to add them to the graph.
- You can easily change between SJR and Scopus SNIP by clicking on the appropriate tab:



 If you want to look at a ranked list of journals in your subject area you can go to the SCImago website (<u>http://www.scimagojr.com/journalrank.php</u>) and select your subject area.

Further help

- For further detailed help on using Journal Citation Reports please visit the Journal Citation Reports help pages: <u>http://admin-apps.webofknowledge.com/JCR/help/h_toc.htm</u>
- For further detailed help on using Scopus to find SCR and Scopus SNIP please visit Scopus help pages: <u>http://help.elsevier.com/app/answers/detail/a_id/2350/p/8150/incidents.c\$portal_account_name/</u> <u>5458</u>
- For further information on bibliometrics please see our bibliometric support pages: <u>https://library.leeds.ac.uk/researcher-bibliometrics</u>
- If you cannot find the answer through the resources above, you can contact the Scholarly Communications and Researcher Skills (SCoReS) Team on <u>research@library.leeds.ac.uk</u>

Last updated: January 2016