

# Showcasing your Research Impact using Bibliometrics

An Introduction to Bibliometrics  
Ciarán Quinn

# Session aims

- ▶ What are Bibliometrics?
  - ▶ What are Altmetrics?
  - ▶ Why are they important?
  - ▶ How can you measure?
    - What are the metrics?
    - What resources are available to you?
    - Subscribed and Unsubscribed resources
  - ▶ How to identify your research impact /profile
  - ▶ How to improve your citations
    - Where should I publish
    - Using keywords/descriptors
    - Increasing visibility
  - ▶ Using metrics to identify potential research collaborations
- 

# Session aims

What are  
Bibliometrics  
& Altmetrics?

Why are they  
important for me?

How to identify your  
research  
impact/profile

How do I improve  
my citations?

Using metrics to  
identify potential  
research  
collaborations

# What are Bibliometrics?

- ▶ A range of statistical analyses related to publications and their authors.

# Beware !

- ▶ Each measure has advantages and disadvantages, related to discipline characteristics, inclusiveness of the measures, and the accessibility of the data; and no single measure should be used in isolation.
- ▶ There are different emphasis and tools for different groups
  - For example if much of your work feeds into government reports, advisory committees or the media you may not get due credit using traditional metrics alone.

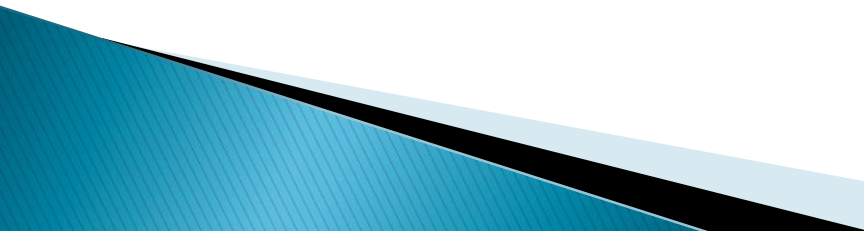
# The Metrics

- ▶ A variety of metrics have been developed to help assess the output of researchers. Here are some of the most popular:
  - **Total number of papers:** a simple count of the number of papers a researcher has published
  - **Total number of citations:** a count of all the citations received by a researcher's published works
  - **The h-index:** has become the most popular metric for assessing the output of individuals since it was developed by Hirsch in 2005. The h-index of an individual is the number of their papers that have been cited at least  $h$  times e.g. a researcher has an h-index of 25 if 25 of their papers have been cited at least 25 times.
  - A number of **variations on the h-index** have emerged. These include:
    - **1) Egghe's g-index** which gives more weight to the highest cited papers
    - **2) The individual h-index** which accounts for co-authorship in calculating impact by giving less weight to such papers
    - **3) The contemporary h-index** gives less weight to older cited papers
    - **4) The age-weighted citation rate** which also accounts for the age of papers

# Examples of some Bibliometric Indicators

- ▶ **H Index** (Used by WOS Citation Indexes & Scopus Author Evaluator)
  - measures the quantity & sustainability of an individual's research output
- ▶ **Citation Analysis**
  - how many times your publications have been cited on Journal and Citation Indexes such as Scopus and Web of Science
- ▶ **Journal based metrics and Impact Factors**
  - **Journal Citation Reports** (Web of Knowledge)
  - **Eigenfactor** (<http://www.eigenfactor.org/>) (data from JCR)
  - **Journal Analyzer** (Scopus)

# Why are they important?

- ▶ Use citation counts & analysis to
    - Assess your own research performance
    - Evaluate and track the impact your published research
    - Identify Journals with the greatest impact in your research area
    - Support applications for promotion, tenure and grant funding
    - Identify potential collaboration opportunities with other researchers
    - Enhance the international reputation of yourself, your department and your Institution by showcasing your citations
- 



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				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor <sup>®</sup> Score	Article Influence <sup>®</sup> Score
<input type="checkbox"/>	1	<a href="#">ANNU REV PSYCHOL</a>	0066-4308	9464	16.833	23.274	3.348	23	9.2	0.02575	11.324
<input type="checkbox"/>	2	<a href="#">PSYCHOL BULL</a>	0033-2909	28331	14.457	18.100	1.683	41	>10.0	0.02969	8.095
<input type="checkbox"/>	3	<a href="#">ANNU REV CLIN PSYCHO</a>	1548-5943	1573	9.111	11.287	1.200	20	4.5	0.00830	4.815
<input type="checkbox"/>	4	<a href="#">PSYCHOL REV</a>	0033-295X	19753	7.756	11.010	1.929	28	>10.0	0.02203	5.945
<input type="checkbox"/>	5	<a href="#">PSYCHOTHER PSYCHOSOM</a>	0033-3190	2663	6.284	5.092	1.179	28	7.2	0.00570	1.501
<input type="checkbox"/>	6	<a href="#">PSYCHOL MED</a>	0033-2917	15297	6.159	6.132	0.847	235	8.8	0.03387	2.178
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<input type="checkbox"/>	8	<a href="#">J CHILD PSYCHOL PSYC</a>	0021-9630	12042	4.281	6.104	1.306	121	8.4	0.02755	2.300
<input type="checkbox"/>	9	<a href="#">COGNITIVE PSYCHOL</a>	0010-0285	5360	4.273	5.061	0.235	17	>10.0	0.00601	2.850
<input type="checkbox"/>	10	<a href="#">DEPRESS ANXIETY</a>	1091-4269	3467	4.184	3.931	0.555	119	4.4	0.01205	1.288
<input type="checkbox"/>	11	<a href="#">PSYCHOSOM MED</a>	0033-3174	10526	3.968	4.776	0.657	102	8.5	0.01979	1.668
<input type="checkbox"/>	12	<a href="#">HEALTH PSYCHOL</a>	0278-6133	7288	3.873	4.796	0.430	93	9.0	0.01561	1.792
<input type="checkbox"/>	13	<a href="#">NEUROPSYCHOLOGY</a>	0894-4105	4115	3.816	4.063	0.740	77	7.5	0.01023	1.457
<input type="checkbox"/>	14	<a href="#">NEUROBIOL LEARN MEM</a>	1074-7427	4135	3.419	3.687	0.543	129	5.3	0.01396	1.288
<input type="checkbox"/>	15	<a href="#">PSYCHO-ONCOLOGY</a>	1057-9249	5161	3.339	3.992	0.500	156	5.8	0.01423	1.176
<input type="checkbox"/>	16	<a href="#">PSYCHOPHYSIOLOGY</a>	0048-5772	9123	3.290	4.049	0.654	185	>10.0	0.01369	1.357
<input type="checkbox"/>	17	<a href="#">BIOL PSYCHOL</a>	0301-0511	4723	3.225	4.085	0.569	137	5.7	0.01513	1.405
<input type="checkbox"/>	18	<a href="#">J EXP PSYCHOL HUMAN</a>	0096-1523	10323	3.061	3.759	0.408	152	>10.0	0.01616	1.519
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<input type="checkbox"/>	20	<a href="#">INT J EAT DISORDER</a>	0276-3478	6164	2.947	3.347	0.406	106	9.2	0.01038	1.027

# Journal Citation Report

## (WOS) 'Journal Cell Biology Int'

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<input type="checkbox"/>	<a href="#">CELL BIOL INT</a>	1065-6995	2844	<a href="#">1.482</a>	<a href="#">1.610</a>	<a href="#">0.310</a>	168	<a href="#">5.7</a>	<a href="#">7.8</a>

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#### Journal Information ⓘ

**Full Journal Title:** CELL BIOLOGY INTERNATIONAL

**ISO Abbrev. Title:** Cell Biol. Int.

**JCR Abbrev. Title:** CELL BIOL INT

**ISSN:** 1065-6995

**Issues/Year:** 12

**Language:** ENGLISH

**Journal Country/Territory:** ENGLAND

**Publisher:** PORTLAND PRESS LTD

**Publisher Address:** THIRD FLOOR, EAGLE HOUSE, 16 PROCTER STREET, LONDON WC1V 6 NX, ENGLAND

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2009 = 332

2009 = 169


Sum: 495

Sum: 334

Calculation:  $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{495}{334} = 1.482$

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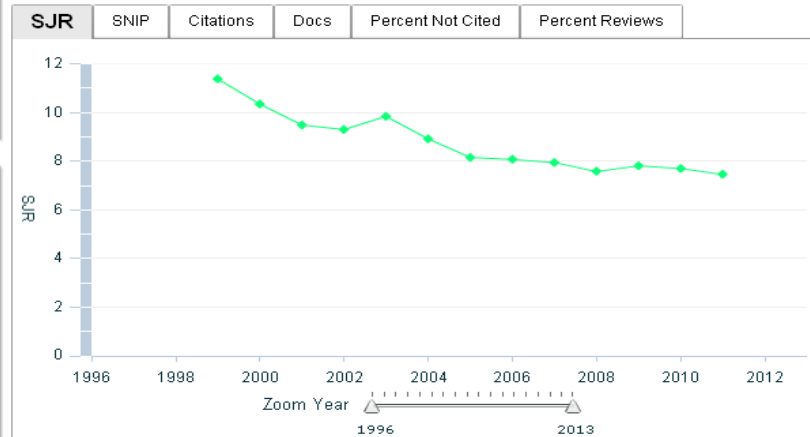
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Journal Title	SJR
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Asian Journal of Cell Biology	0.143
European Journal of Cell Biology	1.545
International Journal of Biochemistry and Cell Biology	1.971
Journal of Cell Biology	7.459
Journal of Cell and Molecular Biology	0.119
Journal of Computational Biology	0.915
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Pathobiology	0.714

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Journals In Chart

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# Case Study: Author Citation Report

## Engler, Adam J (Bio-Engineer)

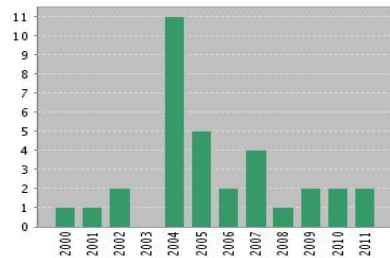
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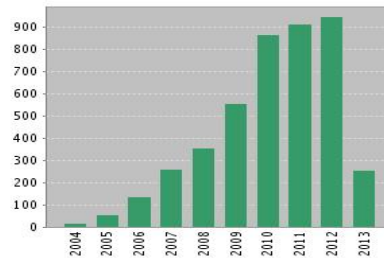
**Citation Report** Distinct Author Summary: Engler, AJ  
 Timespan=All years. Databases=SCI-EXPANDED, A&HCI, SSCI.

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- 1. Title: **Matrix elasticity directs stem cell lineage specification**  
 Author(s): Engler, Adam J.; Sen, Shamik; Sweeney, H. Lee, et al.  
 Source: CELL Volume: 126 Issue: 4 Pages: 677-689 DOI: 10.1016/j.cell.2006.06.044 Published: AUG 25 2006
- 2. Title: **Myotubes differentiate optimally on substrates with tissue-like stiffness: pathological implications for soft or stiff microenvironments**  
 Author(s): Engler, AJ; Griffin, MA; Sen, S, et al.  
 Source: JOURNAL OF CELL BIOLOGY Volume: 166 Issue: 6 Pages: 877-887 DOI: 10.1083/jcb.200405004 Published: SEP 13 2004
- 3. Title: **Substrate compliance versus ligand density in cell on gel responses**  
 Author(s): Engler, A; Bacakova, L; Newman, C, et al.  
 Source: BIOPHYSICAL JOURNAL Volume: 86 Issue: 1 Pages: 617-628 DOI: 10.1016/S0006-3495(04)74140-5 Part: 1 Published: JAN 2004
- 4. Title: **Embryonic cardiomyocytes beat best on a matrix with heart-like elasticity: scar-like rigidity inhibits beating**  
 Author(s): Engler, Adam J.; Carag-Krieger, Christine; Johnson, Colin P., et al.  
 Source: JOURNAL OF CELL SCIENCE Volume: 121 Issue: 22 Pages: 3794-3802 DOI: 10.1242/jcs.029678 Published: NOV 15 2008

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1.	554	866	912	944	254	4351	435.10
2.	322	473	520	515	152	2273	284.12
3.	63	87	86	83	24	491	49.10
4.	47	79	62	56	12	390	39.00
	21	38	51	41	8	159	26.50

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## Engler, Adam J.

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Name	Engler, Adam J.
Other formats	Engler, A. Engler, Adam Engler, A. J.
Author ID	7005709944
Affiliation	University of California, San Diego, Department of Bioengineering, San Diego United States

### Research

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### History

Publication range	2002-Present
Source history	<a href="#">Journal of Cell Science</a> <a href="#">Proceedings of the 2005 Summer Bioengineering</a> <a href="#">View documents</a>

### Documents

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Young, J.L., Tuler, J., Braden, R., Schüp-Magoffin, P., Schaefer, J., Kretchmer, K., Christman, K.L., Engler, A.J.  
**In vivo response to dynamic hyaluronic acid hydrogels**  
(2013)*Acta Biomaterialia*

Vincent, L.G., Choi, Y.S., Alonso-Latorre, B., Del Álamo, J.C., Engler, A.J.  
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**Human Ng2+ adipose stem cells loaded in vivo on a new crosslinked hyaluronic acid-lys scaffold fabricate a skeletal muscle tissue**  
(2013) *Journal of Cellular Physiology*

Abdeen, S.K., Salah, Z., Khawaled, S., Aqeilan, R.I.  
**Characterization of WWOX inactivation in murine mammary gland development**

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1	<a href="#">In vivo response to dynamic hyaluronic acid hydrogels</a>	Young, J.L., Tuler, J., Braden, R., Schüp-Magoffin, P., Schaefer, J., Kretschmer, K., Christman, K.L., Engler, A.J.	2013	<i>Acta Biomaterialia</i> Article in Press	0
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2	<a href="#">Mesenchymal stem cell durotaxis depends on substrate stiffness gradient strength</a>	Vincent, L.G., Choi, Y.S., Alonso-Latorre, B., Del Álamo, J.C., Engler, A.J.	2013	<i>Biotechnology Journal</i> 8 (4) , pp. 472-484	1
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3	<a href="#">Dynamic and reversible surface topography influences cell morphology</a>	Kiang, J.D., Wen, J.H., del Álamo, J.C., Engler, A.J.	2013	<i>Journal of Biomedical Materials Research - Part A</i> Article in Press	0
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5	<a href="#">The alignment and fusion assembly of adipose-derived stem cells on mechanically patterned matrices</a>	Choi, Y.S., Vincent, L.G., Lee, A.R., Kretschmer, K.C., Chirasatitsin, S., Dobke, M.K., Engler, A.J.	2012	<i>Biomaterials</i> 33 (29) , pp. 6943-6951	1
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6	<a href="#">Control of stem cell fate and function by engineering physical microenvironments</a>	Kshitz, Park, J., Kim, P., Helen, W., Engler, A.J., Levchenko, A., Kim, D.-H.	2012	<i>Integrative Biology (United Kingdom)</i> 4 (9) , pp. 1008-1018	1
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7	<a href="#">Measuring nascent myocardial stiffness in Drosophila melanogaster to investigate</a>	Kaushik, G., Zamboni, A.C.	2012	<i>Journal of Cellular and Molecular</i>	1

[www.scopus.com/record/display.url?eid=2-s2.0-84875918024&origin=resultslist&sort=plf-f&src=s&sid=085732B22F25DF8F...=AU-ID\("Engler, Adam J." 7005709944\)&relpos=0&relpos=0&searchTerm=AU-ID\("Engler, Adam J." 7005709944\)](http://www.scopus.com/record/display.url?eid=2-s2.0-84875918024&origin=resultslist&sort=plf-f&src=s&sid=085732B22F25DF8F...=AU-ID()

# Citation Overview

## Adam J Engler on Scopus

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53 Cited Documents <span>Save list</span>		Citations						
		Total	<2011	2011	2012	2013	Subtotal	>2013
1	<input type="checkbox"/> 2006 Matrix Elasticity Directs Stem C...	1084	492	1077	328	2325	0	4509
2	<input type="checkbox"/> 2004 Myotubes differentiate optimally...	297	77	86	21	184		481
3	<input type="checkbox"/> 2009 Stem cell fate dictated solely b...	59	60	82	34	176		235
4	<input type="checkbox"/> 2006 Mesenchymal stem cell injection ...	121	28	43	7	78		199
5	<input type="checkbox"/> 2008 Embryonic cardiomyocytes beat be...	60	44	40	7	91		151
6	<input type="checkbox"/> 2004 Surface probe measurements of th...	90	18	21	3	42		132
7	<input type="checkbox"/> 2004 Elasticity of native and cross-l...	94	11	22	3	36		130
8	<input type="checkbox"/> 2004 Photopolymerization in microflui...	78	12	14	6	32		110
9	<input type="checkbox"/> 2010 Intrinsic extracellular matrix p...	12	25	49	13	87		99
10	<input type="checkbox"/> 2007 Cell responses to the mechanoche...	46	20	23	6	49		95
11	<input type="checkbox"/> 2005 Power-law rheology of isolated n...	50	10	7	3	20		70
12	<input type="checkbox"/> 2004 Targeted worm micelles	47	8	6	3	17		64
13	<input type="checkbox"/> 2007 Extracellular matrix elasticity ...	29	11	12	3	26		55
14	<input type="checkbox"/> 2009 Multiscale modeling of form and ...	17	20	13	3	36		53
15	<input type="checkbox"/> 2007 Microtissue Elasticity: Measur...	21	13	8		21		42
16	<input type="checkbox"/> 2008 Fibronectin expression modulates...	22	12	4	3	19		41
17	<input type="checkbox"/> 2011 Stiffness gradients mimicking in...		7	21	10	38		38
18	<input type="checkbox"/> 2011 Hydrogels with time dependent me...		6	22	4	32		38

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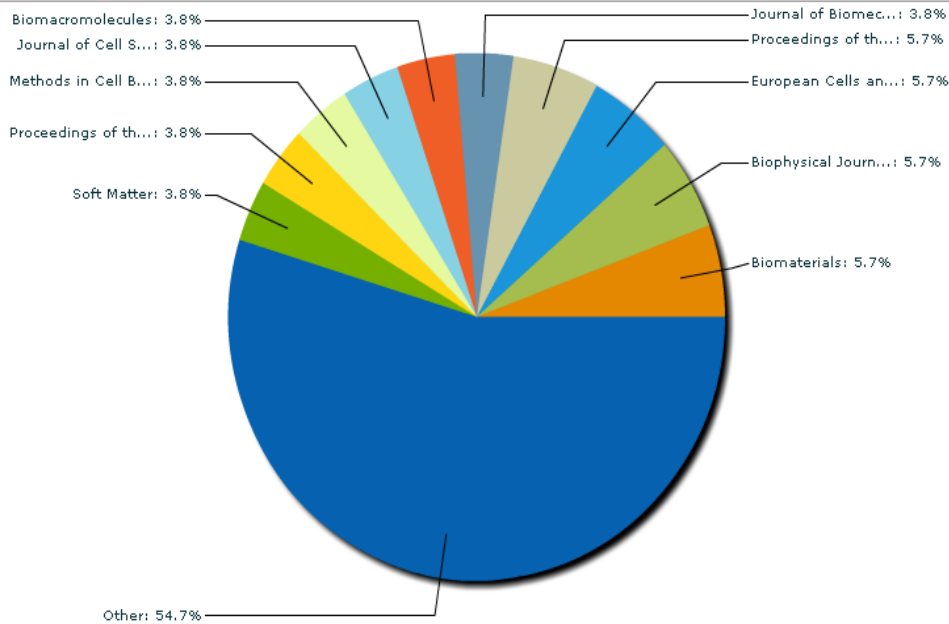
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European Cells and Materials	3
Proceedings of the 2005 Summer Bioengineering Conference	3
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Biomacromolecules	2
Journal of Cell Science	2
Methods in Cell Biology	2
Proceedings of the National Academy of Sciences of the United States of America	2
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- Highest Impact in a field
- Largest Journal in a field

## ▶ Web of Science

- Article analysis (Impact) Times cited, number of citations by year,
- average citation rate, h index and Journal Impact Factor

## ▶ Incites

- InCites is a customized, citation-based research evaluation tool on the Web that enables you to analyze institutional productivity and benchmark your output against peers worldwide. Contact Subject Librarian to arrange access

## ▶ Scopus : View Citation overview, Journal Analyzer,

## ▶ SciVal Strata: is a visualization tool that helps users track team and individual research performance across a flexible spectrum of benchmarks and measures.

# Incites

InCites™

Calibrate Your Strategic Research Vision



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[RESEARCH PERFORMANCE PROFILES](#)

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## CALIBRATE YOUR STRATEGIC RESEARCH VISION

InCites is a customized, citation-based research evaluation tool on the Web that enables you to analyze institutional productivity and benchmark your output against peers worldwide.

Follow the links below to view and create reports.

### Discover InCites™

Learn more about the methodology behind InCites and how it can help elevate research excellence.

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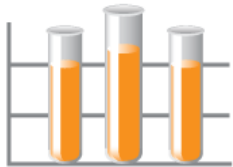
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## RESEARCH PERFORMANCE PROFILES

### Comprehensive Publication & Citation Reports

- Pinpoint influential and emerging researchers
- Monitor collaboration activity

[Get Started](#) >

**Dataset:** Irish Universities Association: NUI Maynooth: Address Search Dataset



## GLOBAL COMPARISONS

### Output & Impact Statistics for Benchmarking

- Compare your institution to others worldwide
- Identify field strengths within countries/territories

[Get Started](#) >

# SciVal Strata

(Access by Registering with Scopus & use that Login)

The screenshot displays the SciVal Strata web interface. At the top left, the SciVal Strata logo is visible, along with navigation links for Experts, Funding, Spotlight, and Strata. On the top right, user information for Ciaran Quinn is shown, including options to Log out and Go to SciVerse Suite. A status bar indicates the data was last updated on Wednesday, 1 May 2013. The main navigation bar includes links for My Settings, Export analysis, and Help.

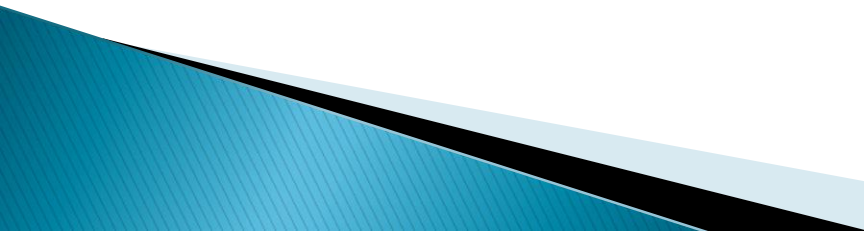
The interface is divided into several sections:

- My Selection:** A list of geographical regions with checkboxes: Ireland, Europe, and World.
- Clusters:** A list of research clusters with checkboxes: ChinaCollaboration, IUAIndiaGroup, nui maynooth, ScienceWithoutBorders, and SpecificResearchGroup.
- Researchers:** A list of individual researchers with checkboxes: Barnes-Holmes, Dermot; Bechtluft-Sachs, Stefan; Boyle, Mark; Breslin, Carmel B.; Budarina, Natalia V.; Burnell, Ann M.; and Carolan, James C.

The main content area is titled "Citation Benchmark" and includes tabs for Benchmark, Influence, and Collaboration. It features a "Reference Field" dropdown menu currently set to "-- No Reference Field available --", with links to "Manage my Reference Fields", "Open the Source Overview", and "Download Percentiles". Below this is a line chart showing "Average citations per document" on the y-axis (ranging from -Infinity to 0) against "Publication year" on the x-axis (ranging from 1996 to 2012). The chart area is currently empty, indicating no data is displayed.

# Altmetrics are?

## Non Traditional Filters !

- ▶ Google Scholar Citations
  - ▶ Google Scholar Metrics (includes Books)
  - ▶ [SciMago Journal](#) & Country Rank (Elsevier data from 1996-2011)
  - ▶ Altmetric & Impact Story
  - ▶ PLoS (Public Library of Science) Open Access
  - ▶ PMC Citation Search: (uses PubMed ID's)
  - ▶ Reader Meter: Researcher-level metrics based on readership. Currently from Mendeley
- 

# Specialist databases

- ▶ There may be specialist databases for your field that offer citation tools and a good coverage of the literature, here are some examples:
- ▶ **Spire**s - free resource covering physics literature. Includes bibliometric data. <http://www.slac.stanford.edu/spires/>
- ▶ **Medline** - free resource indexing life science and biomedical publications. Includes citation data. <http://medline.cos.com/>
- ▶ **CiteSeer** - free resource for computer and information science publications. Includes citation data .  
<http://citeseer.ist.psu.edu/citeseer.html>
- ▶ **ArXiv** - Open access. Covers physics, mathematics, computer science, quantitative biology, quantitative finance and statistics .  
<http://arxiv.org/>

# Google Scholar Metrics with Publish or Perish

<http://www.harzing.com/pop.htm>

**HARZING.COM** Research in International Management  
Products & Services for Academics SINCE 1999

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## Publish or Perish

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- [How to cite the Publish or Perish software](#)
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Are you applying for tenure, promotion or a new job? Do you want to include evidence of the impact of your research? Is your work cited in journals which are not ISI listed? Then you might want to try Publish or Perish, designed to help individual academics to present their case for research impact to its best advantage.

Publish or Perish is a software program that retrieves and analyzes academic citations. It uses [Google Scholar](#) to obtain the raw citations, then analyzes these and presents the following statistics:

- Total number of papers
- Total number of citations
- Average number of citations per paper
- Average number of citations per author

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- [What's new?](#)

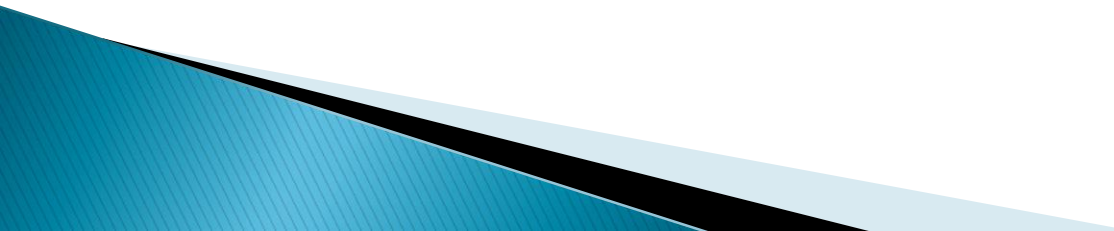
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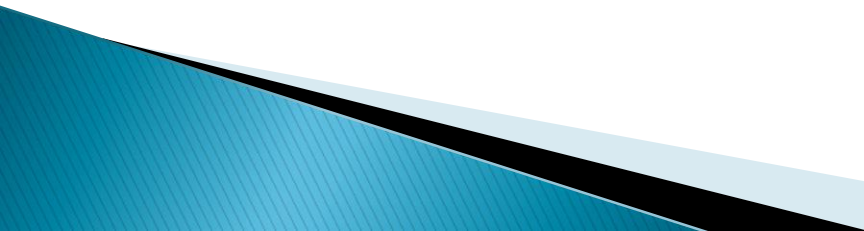
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- [Reflections on norms for the h-index and related indices](#)
- [Google Scholar - a new data source for citation analysis](#)
- [Google Scholar: the democratization of...](#)

# Scholarly peer networks

- Academia.edu
  - Mendeley
  - Social Science Research Network (SSRN)
  - VIVO : International Researcher Network
  - Microsoft Academic Search
- 

# Does where I publish matter?

- ▶ Citation databases such as Web of Science and Scopus *index International, high Impact, Peer Reviewed Journal Titles*
    - *Exclude many books/conference proceedings/non English language*
  - ▶ Are you publishing in those Journals?
  - ▶ Do you publish mainly in Books?
  - ▶ Are there opportunities to publish in Journals?
  - ▶ Is your research in a field not prioritised by the bibliographic data providers?
    - If not notify us and we'll supply details to the database provider if the journal has a international audience
- 



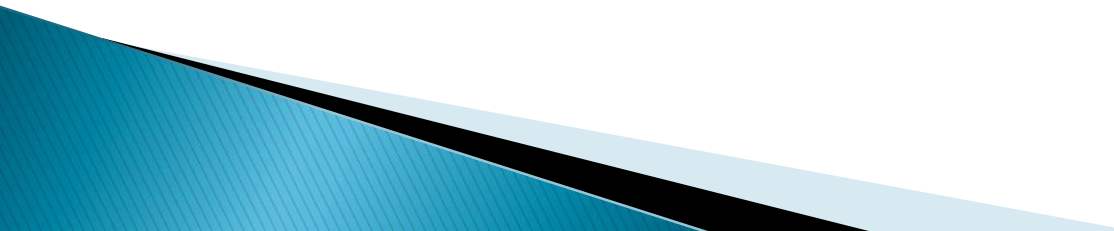
# Improve your citations:make yourself visible!

- ▶ Use Researcher Profile Directory: expert database of all researchers at NUI Maynooth.
- ▶ Use NUI Maynooths Institutional Repository 'Eprints'
  - Open Access policy
  - Deposit publications to RIS & automatically sent to eprints
- ▶ Avoid using different versions of your name and Institutional name variants (National University of Ireland Maynooth,)
  - Beware collaborative articles as it can affect the name variants !
- ▶ Use Research ID (Web of Knowledge)
  - Check your name variants & align with your publications
- ▶ Use Author Identifier (Scopus)
  - Merge your Author identities (disambiguation)and align with your articles

# Encourage the Citation of your Work

- ▶ Help the Literature Reviewer !
  - Don't be obscure use commonly used descriptors
  - Use informative titles
  - Be clear and informative in writing abstracts and book descriptions. Include the key points of the research.
  - Collaborative works attract more citations due to networking across researchers
  - Self cite but keep it in line with other academics
- ▶ Use social media and traditional media to get your work noticed

# Finding Potential Research Collaborators

- ▶ **Increase your profile**
  - ▶ **Promote your research**
  - ▶ **SciVal® Strata** (Elsevier): is a visualization tool that helps users track team and individual research performance across a flexible spectrum of benchmarks and measures.
  - ▶ **Incites** (Thomson Reuters): is a customized, citation-based research evaluation tool on the Web that enables you to analyze institutional productivity and benchmark your output against peers worldwide.
- 

# Putting bibliometrics in context

- ▶ Bibliometrics & citation analysis is only one quantitative indicator of research. There are other quantitative indicators and qualitative approaches of which peer-review a key indicator.
- ▶ Bibliometric Measures:
  - Patterns of authorship, publication & the use of literature
- ▶ Benefits
  - Quantitative approaches could be argued to **easier be fairer?** than qualitative methods e.g. peer-review
  - Cost effective
  - Efficiency advantage & consistency
- ▶ Application & importance varies from field to field
  - tremendous controversy surrounds any assessment of the intellectual output of academics & researchers
- ▶ Examples Times Higher & QS Ranking to assess University Performance. Whole range in indices.
  - Measuring impact of literature
  - Just one of many measures

# Research Skill Tutorials

<http://library.nuim.ie/training/postgraduate>

## Research Skills Tutorials:

- [Moodle Library Area](#) (EBooks, Research Skills, Plagiarism, Referencing),
- [Graduate School Generic Skills Training](#),
- [VTS Tutorials](#)
- [Emerald Research Zone](#)
- [Net Skills](#)
- [Measuring your Research Impact \(MyRI \)](#) online tutorial
- [EndNote Web Help](#)
- [EndNote Web Training](#)
- [eTheses Information briefing sessions: PostGrad Forum](#)

# MyRI (Measuring your Research Impact)

- ▶ A collaborative project of four Irish academic libraries producing a set of materials to support bibliometrics training.
- ▶ <http://www.ndlr.ie/myri/>
- ▶ Contains:
  - **An online tutorial**  
This is in 3 modules: introductory overview; journal ranking; bibliometrics to support your career and research strategy. Includes videos and other interactive elements.
  - Product Profiles
  - Datasheets

## Other Bibliometric Sources:

- ▶ Useful Links at:
  - Science & Engineering Subject Librarian Blog
  - <http://ciarnthelibrarian.blogspot.ie/>