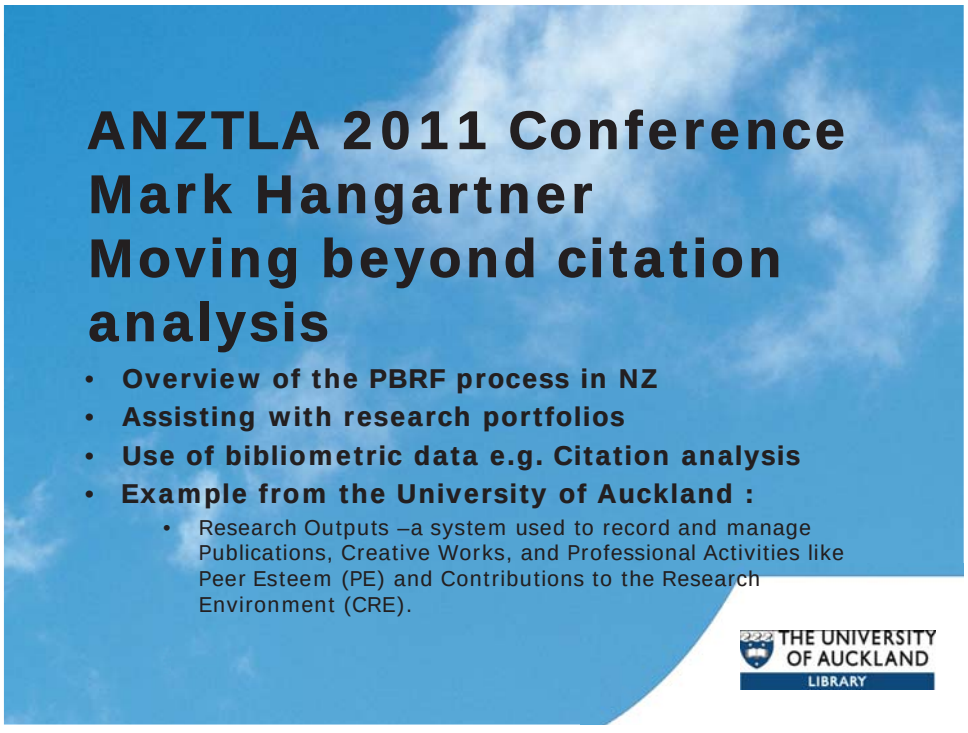
Moving Beyond Citation Analysis

by Mark Hangartner



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Citation analysis - research support

Overview of this presentation :

- what citation analysis is
- some tools we use
- helping academics with evidence portfolios
- maintaining a database for the institution.

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What is citation analysis?

It starts with a piece of academic work
e.g. an article

Benchmarking Google Scholar with the New Zealand PBRF research assessment exercise

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Abstract
Google Scholar was used to generate citation counts to the web-based research output of New Zealand Universities. Total citations and hits from Google Scholar correlated

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It gets cited in an indexed publication e.g. a journal in a citation index

Count the number of times it is cited ...

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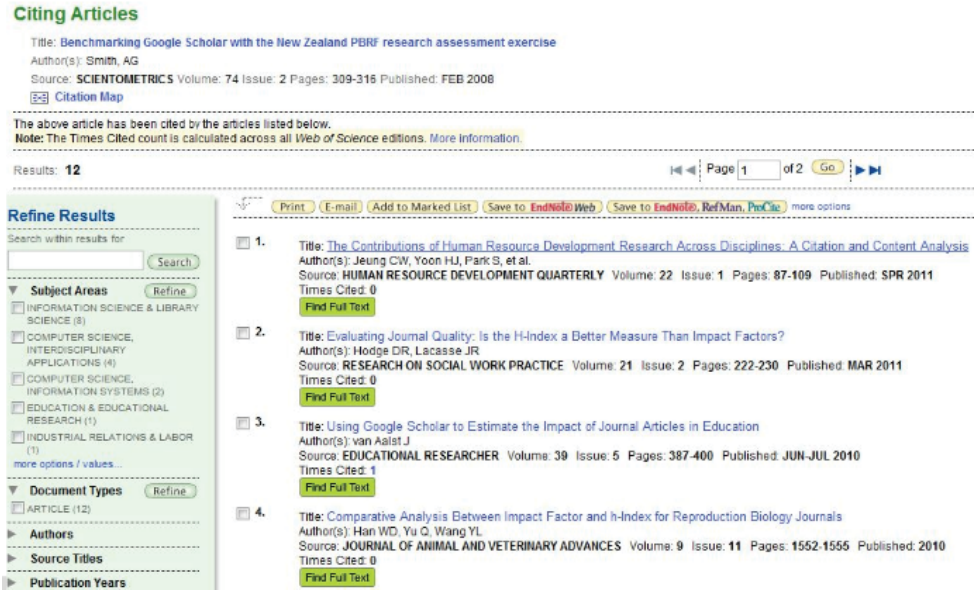
... and by whom ... and when.



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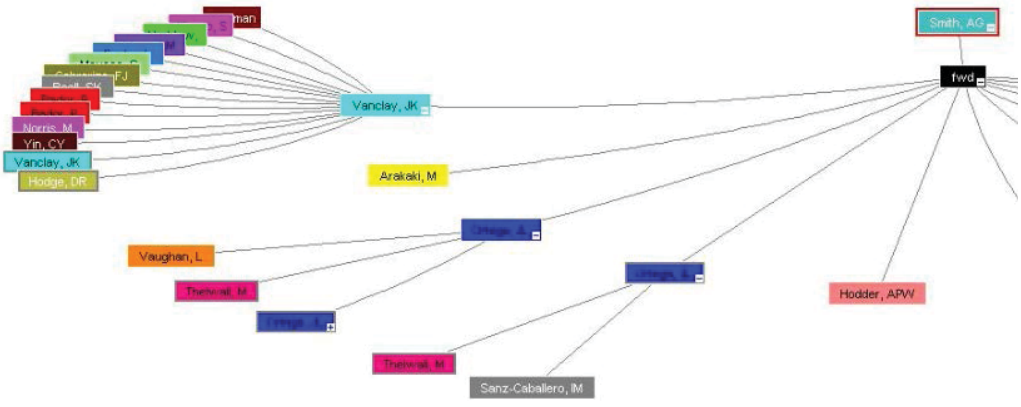
Get a picture of who is citing this work on a citation map



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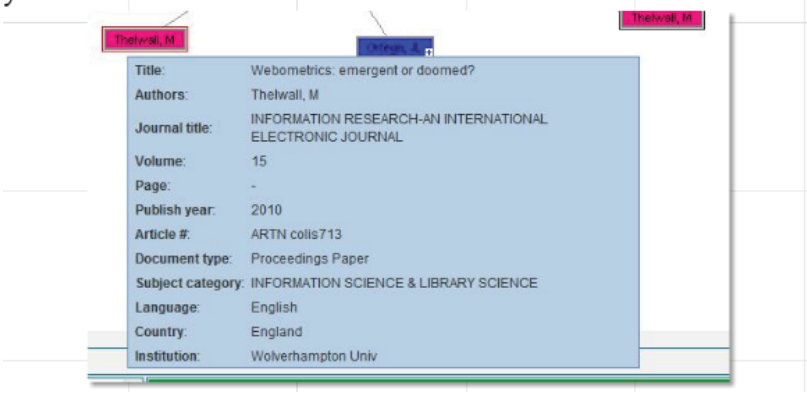
This helps identify a kind of trail or "web" of research, you can look in detail at one strand



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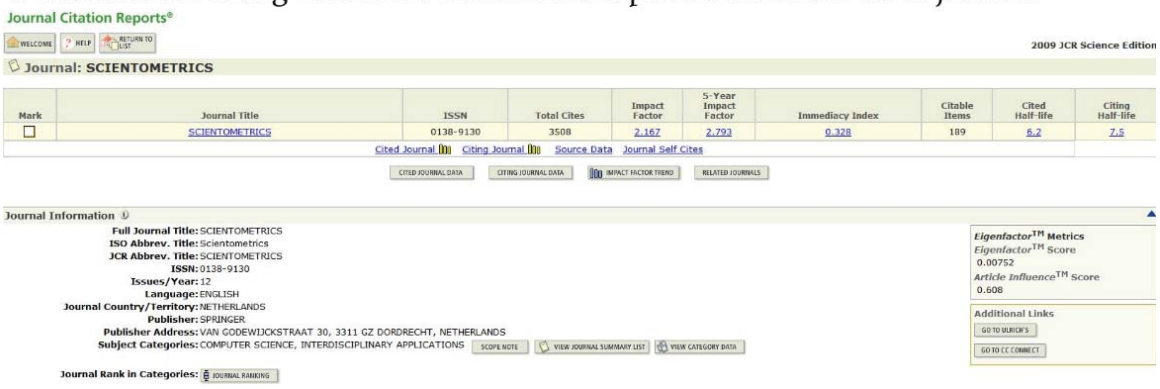
Journal Citation Reports

we look at the citing record for other articles published in the same journal



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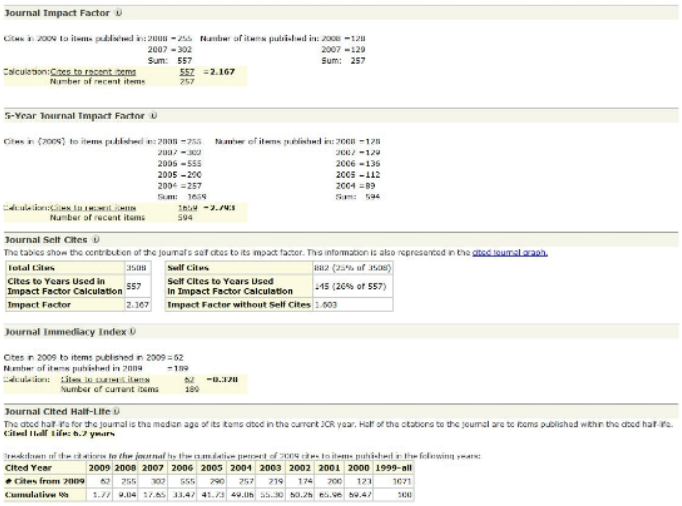
The Impact Factor and how to calculate it



Journal Impact Factor ⓘ

Cites in 2009 to items published in: 2008 = 255 Number of items published in: 2008 = 128
2007 = 302 2007 = 129
Sum: 557 Sum: 257

Calculation: Cites to recent items 557 = 2.167
Number of recent items 257

5-Year Journal Impact Factor ⓘ

Cites in (2009) to items published in: 2008 = 255 Number of items published in: 2008 = 128
2007 = 302 2007 = 129
2006 = 555 2006 = 135
2005 = 290 2005 = 112
2004 = 257 2004 = 89
Sum: 1609 Sum: 594

Calculation: Cites to recent items 1609 = 2.708
Number of recent items 594

Journal Self Cites ⓘ

The tables show the contribution of the journal's self cites to its impact factor. This information is also represented in the cited journal graph.

Total Cites	3508	**Self Cites**	882 (25% of 3508)
Cites to Years Used in Impact Factor Calculation	557	**Self Cites to Years Used in Impact Factor Calculation**	145 (26% of 557)
Impact Factor	2.167	**Impact Factor without Self Cites**	1.603

Journal Immediacy Index ⓘ

Cites in 2009 to items published in 2009 = 62
Number of items published in 2009 = 189
Calculation: Cites to current items 62 = 0.328
Number of current items 189

Journal Cited Half-Life ⓘ

The cited half-life for the journal is the median age of its items cited in the current JCR year. Half of the citations to the journal are to items published within the cited half-life.
Cited Half-Life: 6.2 years

Breakdown of the citations *to the journal* by the cumulative percent of 2009 cites to items published in the following years:

Cited Year	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999-all
# Cites from 2009	62	255	302	555	290	257	219	174	200	123	1671
Cumulative %	1.77	9.04	17.65	33.47	41.73	49.06	55.30	60.26	65.96	69.47	100

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Context is everything

Rank in Category: SCIENTOMETRICS

Journal Ranking ⓘ

For **2009**, the journal **SCIENTOMETRICS** has an Impact Factor of **2.167**.

This table shows the ranking of this journal in its subject categories based on Impact Factor.

Category Name	Total Journals in Category	Journal Rank in Category	Quartile in Category
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	95	18	Q1

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Searching in Google Scholar

make sure you try different citation styles

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Google scholar results

[PDF] Google Scholar-a new data source for citation analysis — [PDF] from telecom-paristech.fr
AW Harzing - University of Melbourne, 2007 - perso.telecom-paristech.fr
Page 1. Google Scholar - a new data source for citation analysis Prof. Anne-Wil Harzing, University of Melbourne Web: www.harzing.com Email: pop@harzing.com © Copyright 2007 Anne-Wil Harzing. All rights reserved. Document link: http://www.harzing.com/pop_gs.htm ...
Cited by 20 - Related articles - View as HTML - All 3 versions

Ranking forestry journals using the h-index — [PDF] from arxiv.org
JK Vanclay - Journal of informetrics, 2008 - Elsevier
The Thomson Scientific (TS) Journal Impact Factor (JIF; Garfield, 1955) has been the dominant measure of journal impact, and is often used to rank journals and gauge relative importance, despite several recognised limitations (Dellavalle, Schilling, Rodriguez, Van de Sompel, ...
Cited by 20 - Related articles - All 12 versions

The rate of growth in scientific publication and the decline in coverage provided by Science Citation Index — [HTML] from nih.gov
PO Larsen... - Scientometrics, 2010 - akademiai.com
Abstract The growth rate of scientific publication has been studied from 1907 to 2007 using available data from a number of literature databases, including Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Traditional scientific publishing, that is publication in peer- ...
Cited by 10 - Related articles - All 8 versions

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Mini Summary

- Evidence portfolio increasingly important
- Citation tools e.g. Web of Science & Google scholar can help

Research outputs

institutions need to
keep these records
as well as academics

an example from Auckland

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Summaries for Professor Elaine M Wainwright

Publications

		Approved	Pending
Journal articles	Add new journal article	30	0
Conferences	Add new conference	42	0
Posters	Add new poster	0	0
Chapters	Add new chapter	32	0
Books	Add new book	7	0
Reports	Add new report	0	0
Scholarly editions	Add new scholarly	0	0

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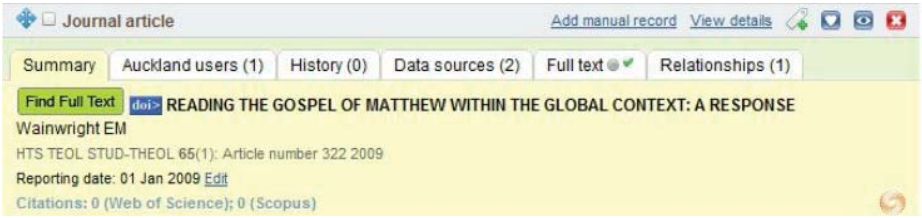
Professional activities

		Total
Prizes and Awards (PE)	Add new prize or award (PE)	1
Fellow/Memberships (PE)	Add new fellow/membership (PE)	2
Editorial/refereeing (PE)	Add new editorial/refereeing (PE)	7
Conference addresses (PE)	Add new conference address (PE)	9
Favourable reviews (PE)	Add new favourable review (PE)	9
Appointments (PE)	Add new appointment (PE)	0
Student factors (PE)	Add new student factor (PE)	1
Favourable citations (PE)	Add new favourable citation (PE)	9
Others (PE)	Add new other (PE)	17



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Data sources

Web of Science

ID: 000276644300078
Sub types: Article
Title: READING THE GOSPEL OF MATTHEW WITHIN THE GLOBAL CONTEXT: A RESPONSE
Authors: Wainwright EM
Journal: HTS TEOL STUD-THEOL
Volume: 65
Issue: 1
Article number: 322
Pagination:
Abstract: This article responds to the diversity of approaches in the five papers presented at the Matthew Section of the Society of Biblical Literature, held in Boston (Massachusetts), 21-25 November 2008. This response focuses on an overarching question: what does it mean to read Matthew in a global context? It considers two key areas. The first is location and voice/language and the second, the hermeneutics and methodologies employed and how these enabled John Y.H. Yieh (Virginia Theological Seminary), Andries van Aarde (University of Pretoria), Dorothy Jean Weaver (Eastern Mennonite Seminary), Laura Anderson (Graduate Theological Union, Berkeley) and Lidija Novakovic (Baylor University, Waco) to read Matthew within a global context.
Publisher: UNIV PRETORIA HTS
Publication date: 2009
DOI: 10.4102/hts.v65i1.322
ISSN: 0259-9422

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lack of time
not important
lack of skills

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Some considerations

Do you include non academic work e.g. sermons
Do you keep the fulltext?
Include student work?
Do you keep alumni research
Would you collaborate with other ANZTLA members?