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June 2012

Make an Impact! Assessing Scholarly Research and Output while Connecting to your Faculty

Anne Rauh
Syracuse University

Linda Galloway
Syracuse University

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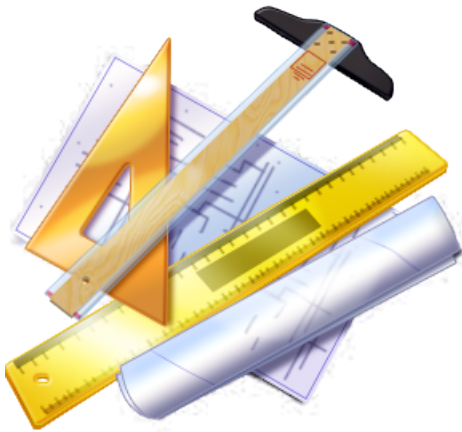
Make an Impact!

**Assessing scholarly research and output
while connecting to your faculty**

Anne Rauh and Linda Galloway
Syracuse University Library

How do we measure scholarly research and output?

- Quantity
 - Publications
- Quality
 - Citations
- Funding
 - Research funds
- Technology transfer
 - Patents, start-ups, etc.



Why do we offer this service?

- Build relationships with faculty
- Learn about faculty research interests
- Assist in evaluation of departments, programs, and faculty
- Accreditation efforts
- Marketing for academic programs



Examples of Connections

Syracuse University Library

Finding your Scholarly Impact

Tasha Cooper, Anne Rauh, Patrick Williams
Syracuse University Library
Research, Collections and Scholarly Communication

April 12, 2012

Syracuse University's
 Women in Science and Engineering,
 Syracuse University Library, and
 SU ADVANCE present

Making an Impact with Your Research

Determining the impact of your research through journal rankings, citations and other criteria

Linda M. Galloway
 Librarian for Biology, Chemistry and Forensic Science

LED BY
Anne Rauh
 Librarian for Engineering and Computer Science

Date: Friday, February 17th
Time: 12:00 pm to 1:30 pm
Place: 106 Life Sciences Complex,
 Biology Lundgren Room

A light lunch will be served

RSVP ATTENDANCE by February 15th to
 Sarah Miraglia at lcwise@syr.edu

Working Together to Support Women in STEM

SelectedWorks of Ashok S. Sangani

Author Home | Browse Subjects | Browse Article Types | Series Home

Ashok S. Sangani is a Professor in the Department of Biomedical and Chemical Engineering at Syracuse University where he has been on the faculty since 1982.

Professor Sangani received his BS degree from the University of Bombay in 1976, and, under guidance of Professor M. H. Sharma, spent one year in that university working on a project evaluating the performance of wire-gauze packings in distillation columns. Professor Sangani then joined Columbia University in 1977 to work on his Master's Degree. His M.S. thesis, under Professor Crile's guidance, involved X-ray diffraction studies of directionally solidified polymer blends. He then further pursued his graduate studies in Chemical engineering at Stanford University. His Ph.D. thesis, guided by Professor Acrivos, was on transport phenomena in two-phase systems. He is currently serving as a Program Director in Chemical, Biological, Environmental, and Transport Division of Engineering Directorate at the National Science Foundation.

Professor Sangani worked as a visiting scientist at the IBM Research Center in the summer of 1985 and as a visiting professor at The Johns Hopkins University during his sabbatical year of 1989-90. He was also an adjunct professor at Cornell University during 1994-2000.

He is a member of American Institute of Chemical Engineers, American Physical Society, American Chemical Society, and Society of Rheology.

Peer-reviewed Articles

PDF **Roles of particle-wall and particle-particle interactions in highly confined suspensions of spherical particles being sheared at low Reynolds numbers** (with Ashok S. Sangani, Andreas Acivos, and Philippe Peyla), *American Institute of Physics* (2011)
 The roles of particle-wall and particle-particle interactions are examined for suspensions of spherical particles in...

PDF **A kinetic theory for particulate systems with bimodal and anisotropic velocity fluctuations** (with Ashok S. Sangani, Shailesh S. Ozarkar, Volodymyr I. Kushch, and Donald L. Koch), *Physics of Fluids* (2008)
 Observations of bubbles rising near a wall under conditions of large Reynolds and small Weber...

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Ashok S. Sangani
 Syracuse University
 Professor, Biomedical and Chemical Engineering
 Contact Information

Search the Selected Works of Ashok S. Sangani

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Electrical Engineering and Computer Science

2012
Engineered Carbon-Nanotubes Based Composite Material for RF Applications, Emmanuel Decrossas, Mahmoud EL Sabbagh, Samir M. El-Ghazaly, and Victor Fouad Hanna

Robust Characterization of Carbon Nanotube Complex Permittivity over a Broadband of RF Frequencies, Emmanuel Decrossas, Mahmoud EL Sabbagh, Victor Fouad Hanna, and Samir M. El-Ghazaly

Performance Bounds for Sparse Pattern Recovery with Quantized Noisy Random Projections, Thakshila Wimalapewa and Pramod K. Varshney

2011
Interoperable Credentials Management for Wholesale Banking, Glenn Benson, Shu-Kai Chin, Sean Croston, Kartick Jayaraman, and Susan Older

On Noise-Enhanced Distributed Inference in the Presence of Byzantines, Mukul Gargan, Pranay Sharma, Satish Iyengar, Venkata Srinan Siddharth Nadendla, Aditya Vempaty, Hao Chen, and Pramod Varshney

Spatial Whitening Framework for Distributed Estimation, Swarnendu Kar and Pramod K. Varshney

Augmented Lagrangian Approach to Design of Structured Optimal State Feedback Gains, Fu Lin, Mukan Faridat, and Mhalek R. Jovanovic

Abstracts on WebView in the Android System, Toribio Luo, Hao Hao, Weiliang Du, and Hens Yin

What do you want to assess?

- Institutions
- Departments
- Centers or Groups
- Individuals

What type of data do you need?

- Qualitative
- Quantitative
 - Publications
 - Citations to pubs
 - Publication influence
 - “Other”
 - Social media buzz

Our focus will be on individual, quantitative data.

What tools will we discuss?

- Scopus
- Web of Science
- Google Scholar
- Journal Citation Reports & Journal Analyzer
- altmetrics



Google scholar

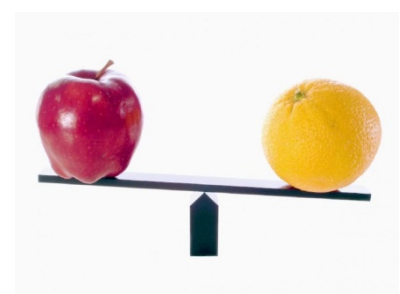
altmetrics



Conventional Tools

Consider Before Beginning:

- Cost of subscription databases
- Ease of use
- Time frames
 - Citations to past year's work (2011),
 - Citations to author's work in past 5 years (07-11)
 - Citations to author's work in past 10 years (02-11)
- Skewed towards STM fields
- Don't compare across databases!



Scopus or Web of Science?

Scopus

SciVerse Scopus is the world's largest abstract and citation database of peer-reviewed literature.

- Contains 46 million records, 70% with abstracts
- Nearly **19,500** titles from 5,000 publishers worldwide
- Includes over 4.6 million conference papers
- Provides 100% Medline coverage

Subscription includes:

- 23 million records with references back to 1996 (of which 78% include references).
- 21 million records pre-1996 which go back as far as 1823.

Web of Science

Web of Science consists of nine databases containing information gathered from thousands of scholarly journals, books, book series, reports, conferences, and more.

- It fully covers over **12,000** major journals.
- Create a visual representation of citation relationships with Citation Mapping
- Capture citation activity and trends graphically with Citation Report
- Use the Analyze Tool to identify trends and patterns

Our subscription:

- Science Citation Index Expanded (1899-present)
- Social Sciences Citation Index (1898-present)
- Arts & Humanities Citation Index (1975-present)

Citation Metrics for Individual Faculty Members

Assess scholarly impact by looking at:

- Works published
- Citations to works published
- Publication influence (Journal Citation Reports)



Susan Parks

Assistant Professor of Biology, Syracuse University

[Bioacoustics](#)

Verified email at syr.edu

[Homepage](#)

Cited Reference Search in Scopus

Make Author Selection

Author Last Name
dibble
E.g., smith

Initials or First Name
t.s.
E.g., j.l.

Show exact matches only

Affiliation
E.g., university of toronto

To determine which author names should be grouped together under a single identifier number, the author names based on their affiliation, address, subject area, source title, dates of publication, etc. may not be matched, this can lead to more than one entry in the results list for the same author. document in Scopus are shown in search results. [About Scopus Author Identifier](#)

Tips:

- ✓ Create an account to save your work
- ✓ Check within each author group for publications
- ✓ Merge author profiles, if necessary

Refine results

Source Title

- Journal of Physical Chemistry A (2) >
- Journal of the American Chemical Society (2) >
- Plasma Chemistry and Plasma Processing (2) >
- ACS Division of Environmental Chemistry Preprints (1) >
- ACS Division of ... (1) >

Author results: 2 1 of 1

All Page With selected: [Show documents](#) | [View citation overview](#) | [Request to merge authors](#) Sort by **Document Count (Descending)**

Authors	Documents	Subject Area	Affiliation	City	Country
<input checked="" type="checkbox"/> Dibble, Theodore S. 1 Dibble, Th S. Dibble, T. S.	50 Show Last Title	Chemistry ; Physics and Astronomy ; Environmental Science; ...	State University of New York Upstate Medical University	Syracuse	United States
<input checked="" type="checkbox"/> Dibble, Theodore S. 2 Dibble, T. S.	10 Show Last Title	Chemistry ; Physics and Astronomy ; Chemical Engineering; ...	State University of New York Upstate Medical University	Syracuse	United States

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60 Cited Documents Save list		Citations									
		<2007	2007	2008	2009	2010	2011	2012	Subtotal	>2012	Total
Delete	Total	399	38	38	34	49	63	19	241	0	640
1 <input type="checkbox"/>	2011 Impact of tunneling on hydrogen-...						1	2	3		3
2 <input type="checkbox"/>	2011 Effects of olefin group and its ...						3	1	4		4
3 <input type="checkbox"/>	2011 Understanding OH yields in elect...								0		0
4 <input type="checkbox"/>	2010 Potential energy profiles for th...						1		1		1
5 <input type="checkbox"/>	2010 Atmospheric chemistry of isoprop...							1	1		1
6 <input type="checkbox"/>	2009 Characterization of a low temper...								0		0
7 <input type="checkbox"/>	2009 Towards a consistent chemical ki...					1	1		2		2
8 <input type="checkbox"/>	2009 Observation and quantification o...					2	4		6		6
9 <input type="checkbox"/>	2009 Optical diagnostics of a low pow...				1	1	3		5		5
10 <input type="checkbox"/>	2009 A study of OH radicals in an atm...				1		1		2		2

h index = 12

Author *h* index

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Of the 40 documents consid
for the *h* index, 12 have bee
cited at least 12 times.

Note:The *h* index considers
Scopus documents publishe
after 1995.

[About h-Graph](#)

Cited Reference Search in Web of Science

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Web of Science

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Author Finder

Cited Reference Search

Advanced Search

Search History

Web of Science®

Cited Reference Search (Find the articles that cite a person's work)

Step 1: Enter information about the cited work. Fields are combined with the Boolean AND operator.

* Note: Entering the title, volume, issue, or page in combi

dibble, ts

Example: O'Brian C* OR OBrian C*

Example: J Comp* Appl* Math* (journal abbr

Example: 1943 or 1943-1945

[Add Another Field >>](#)

Search

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Searches

Current Limits: (To save these permanently, [sign in or regis](#)

[-] Timespan

All Years (updated 2012-05-25)

From 2007 to 2012 (default is all years)

[-] Citation Databases

Science Citation Index Expanded (SCI-EXPANDED) --1899-present

Social Sciences Citation Index (SSCI) --1898-present

Arts & Humanities Citation Index (A&HCI) --1975-present

[-] Adjust your results settings

Tips:

- ✓ Create an account to save your work
- ✓ If you have a very prolific author, ask her to assist with article identification
- ✓ By default, citation counts are for *All Years* – you must modify for your chosen parameters
- ✓ Read the 'Cited Reference Search' how-to and follow the directions closely

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Cited Reference Search (Find the articles that cite a person's work)

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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 - 50 of 51

Page 1 of 2 Go

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<input checked="" type="checkbox"/>	Alongi, KS...Dibble, TS [Show all authors]	J PHYS CHEM A	2006	110	10	3686	10.1021/jp057165k	12	View Record in Web of Science
<input checked="" type="checkbox"/>	BARTELL, LS...DIBBLE, TS	J PHYS CHEM-US	1991	95	3	1159	10.1021/j100156a025	54	View Record in Web of Science
<input checked="" type="checkbox"/>	BARTELL, LS...DIBBLE, TS [Show all authors]	J PHYS CHEM-US	1990	94	15	6009	10.1021/j100378a071	9	View Record in Web of Science
<input checked="" type="checkbox"/>	BARTELL, LS...DIBBLE, TS	Z PHYS D ATOM MOL CL	1991	20	1-4	255	A1991-107727	5	View Record in Web of Science
<input checked="" type="checkbox"/>	Cias, Pawel...Dibble, Theodore S. [Show all authors]	APPL SPECTROSC	2007	61	2	230	10.1366/000370207779947440	8	View Record in Web of Science
<input checked="" type="checkbox"/>	Deng, W...Dibble, TS [Show all authors]	CHEM PHYS LETT	2000	330	5-6	541	10.1016/S0009-2614(00)01136-2	26	View Record in Web of Science
<input checked="" type="checkbox"/>	Deng, W...Dibble, TS	J PHYS CHEM A	2001	105	39	8985	10.1021/jp011875i	19	View Record

Must always 'Finish Search!'

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Results Cited Author=(dibble, ts)

Timespan=2007-2012. Databases=SCI-EXPANDED, SSCI, A&HCI.

Results: **182**

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Sort by: Publication Date -- newest to oldest

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[Refine](#)

- CHEMISTRY PHYSICAL (86)
- PHYSICS ATOMIC MOLECULAR CHEMICAL (78)
- CHEMISTRY MULTIDISCIPLINARY (20)
- METEOROLOGY ATMOSPHERIC SCIENCES (20)
- ENVIRONMENTAL SCIENCES (9)

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[Refine](#)

- ARTICLE (165)
- REVIEW (15)
- PROCEEDINGS PAPER (4)
- BOOK CHAPTER (2)
- CORRECTION (1)

[more options / values...](#)

Subject Areas

Authors

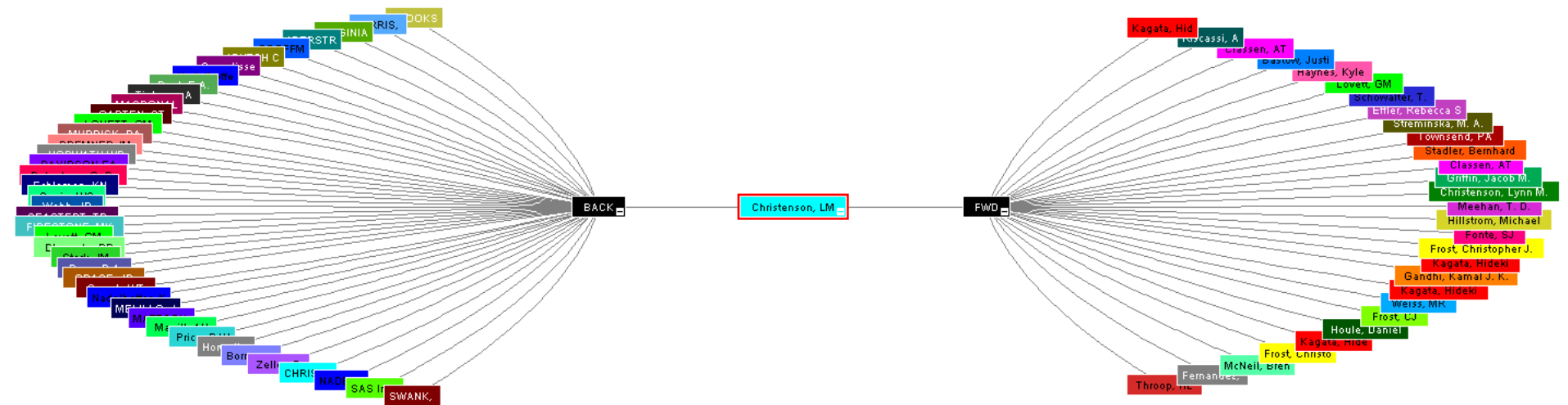
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- Title: [Theoretical study on HO₂-initiated atmospheric oxidation of halogenated carbonyls](#)
Author(s): Long Bo; Long Zheng-Wen; Wang Yi-Bo; et al.
Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 112 Issue: 8 Special Issue: SI Pages: 1926-1935 DOI: 10.1002/qua.23189 Published: APR 15 2012
Times Cited: 0 (from Web of Science)
[SULinks](#)
- Title: [Role of O-2 + QOOH in Low-Temperature Ignition of Propane. 1. Temperature and Pressure Dependent Rate Coefficients](#)
Author(s): Goldsmith C. Franklin; Green William H.; Klippenstein Stephen J.
Source: JOURNAL OF PHYSICAL CHEMISTRY A Volume: 116 Issue: 13 Pages: 3325-3346 DOI: 10.1021/jp210722w Published: APR 5 2012
Times Cited: 0 (from Web of Science)
[SULinks](#)
- Title: [Vibrationally Resolved LIF Spectrum of Tertiary Methylcyclohexoxy Radical](#)
Author(s): Wu Qijin; Lang Gaiting; Zu Lily; et al.
Source: JOURNAL OF PHYSICAL CHEMISTRY A Volume: 116 Issue: 12 Pages: 3156-3162 DOI: 10.1021/jp211888c Published: MAR 29 2012
Times Cited: 0 (from Web of Science)
[SULinks](#)
- Title: [Quantum Mechanical Study of Sulfuric Acid Hydration: Atmospheric Implications](#)

Citation Mapping in Web of Science

Visually Demonstrate Author/Article Influence



Source: Web of Knowledge™, www.thomsonscientific.com

Record details for the nodes are displayed below (double-click a node to show its details). Click a checkbox below to locate that node above.

<input type="checkbox"/>	Primary Author	Journal Name	Article Title
<input checked="" type="checkbox"/>	Christenson, LM	2002-OECOLOGIA	The fate of nitrogen in gypsy ...
<input type="checkbox"/>	BREMNER JM	1966-USE ISOTOPES SOIL OR	(article title not available)
<input type="checkbox"/>	MATTSON WJ	1975-SCIENCE	(article title not available)
<input type="checkbox"/>	Bormann, F. H.	1979-Pattern and process in a forested ecosystem	(article title not available)

The fate of nitrogen in gypsy moth frass deposited to an oak forest floor	
Number / Title	WOS:000175936300015 / The fate of nitrogen in gypsy moth frass deposited to an oak forest floor
Journal Title	OECOLOGIA
Publication Year	2002
Author	Christenson L, Lovett G, Mitchell M, et al
Source Abbreviation	OECOLOGIA

Google Scholar Citations

[My Citations](#) [Metrics](#) [Alerts](#)



Tips:

- ✓ Public profiles are available in Google
- ✓ Can search for an author from within your own profile page

Articles (include patents) Legal documents



Stan

Linda M. Galloway [Edit](#)

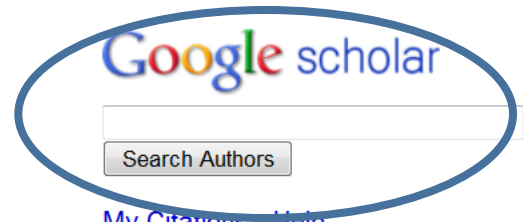
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[Instruction - Assessment - Information Literacy](#) [Edit](#)

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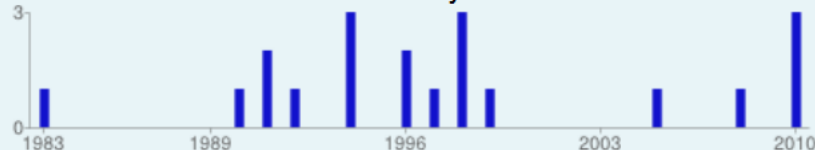


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i10-index	1	0

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Cited Reference Search in Google Scholar Citations

- Author needs to set up their profile (using their Google account); Google Scholar will harvest related data.
- Authors can add articles, groups of articles, edit entries, etc.
- Profiles are private unless author elects to make public
- Quality control: “To be eligible for inclusion in Google Scholar search results, your profile needs to be public and needs to have a verified email address at your university”



Theodore S. Dibble

Professor of Chemistry, SUNY-Environmental Science and Forestry

Atmospheric Chemistry - Combustion - Physical Chemistry

Verified email at esf.edu

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i10-index	30	8

Citations to my articles



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Title / Author	Cited by	Year
<input type="checkbox"/> Electron diffraction studies of the kinetics of phase changes in molecular clusters: freezing of carbon tetrachloride in supersonic flow LS Bartell, TS Dibble The Journal of Physical Chemistry 95 (3), 1159-1167	43	1991
<input type="checkbox"/> Isomerization of OH-isoprene adducts and hydroxyalkoxy isoprene radicals TS Dibble The Journal of Physical Chemistry A 106 (28), 6643-6650	43	2002
<input type="checkbox"/> Reactions of the alkoxy radicals formed following OH-addition to α-pinene and β-pinene. CC bond scission reactions TS Dibble Journal of the American Chemical Society 123 (18), 4228-4234	34	2001
<input type="checkbox"/> Electron diffraction studies of the kinetics of phase changes in molecular clusters. 3. Solid-state phase transitions in selenium hexafluoride and tert-butyl chloride TS Dibble, LS Bartell	32	1992

Comparison

	Times cited	H-Index
Scopus	241	12
Web of Science	182	16
Google Scholar	255	9

Times cited = number of documents published from 2007-2012 that have cited this author's work

H index = Number of author's articles that have been cited at least this many times (during time span indicated)

Searches performed 30 May 2012

Journal Assessment

Where to publish??

Metrics can help identify the most influential (i.e. most cited) journals in a field. This does not mean each article has the same influence...

- Journal Citation Reports (Thomson-Reuters)
- Journal Analyzer (Scopus)

Journal Citation Reports - WoS

Journal Citation Reports™

WELCOME HELP

2010 JCR Science

Journal Summary List

[Journal Title](#)

Journals from: **subject categories BIOLOGY** [VIEW CATEGORY SUMMARY LIST](#)

Sorted by: [SORT AGAIN](#)

Journals 1 - 20 (of 86)

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Ranking is based on your journal and sort selections.

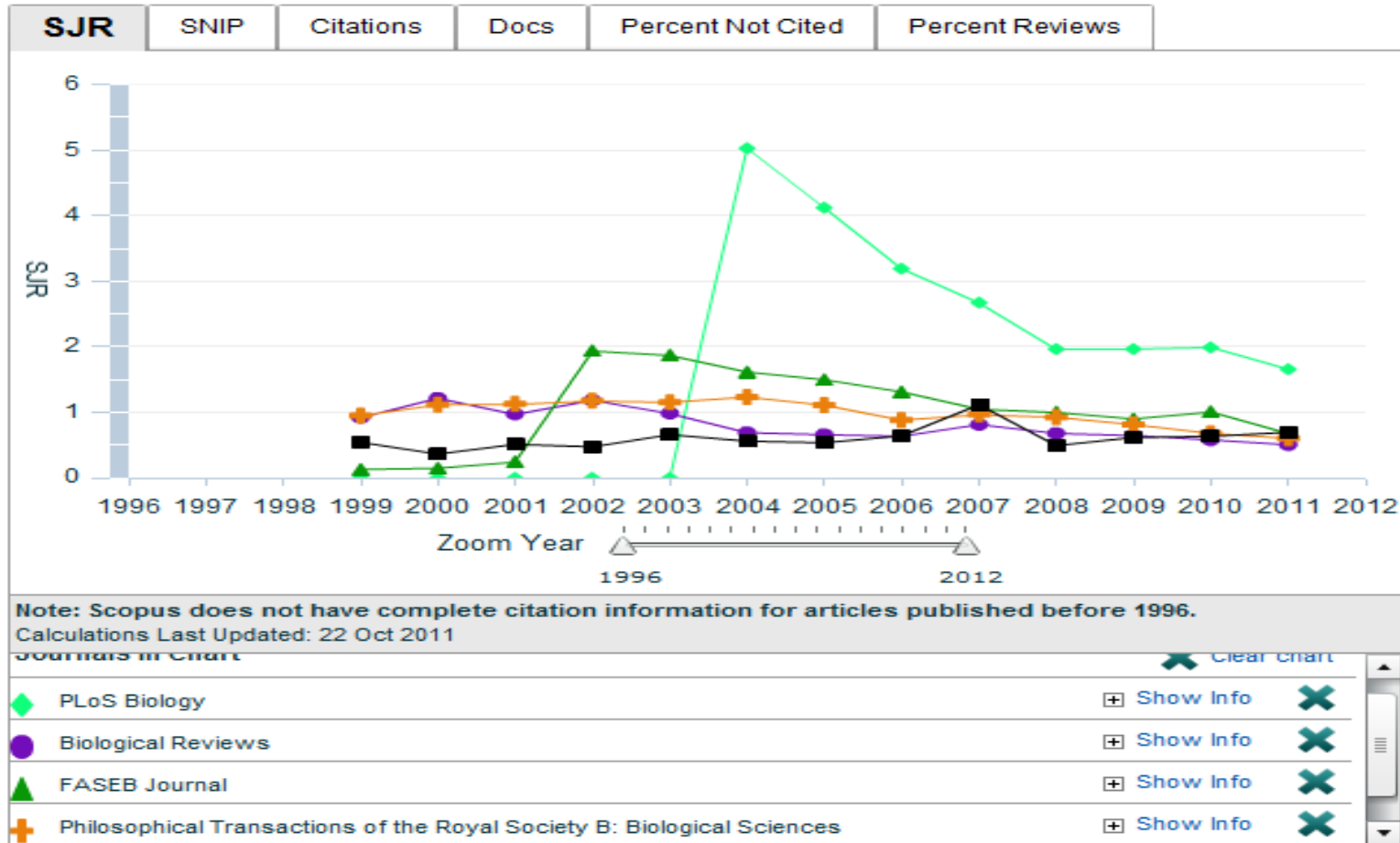
Mark	Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⁱ						Eigenfactor™ Metrics ⁱ	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor™ Score	Article Influence™ Score
<input type="checkbox"/>	1	PLOS BIOL	1544-9173	18454	12.472	14.376	2.706	214	4.1	0.15993	8.211
<input type="checkbox"/>	2	BIOL REV	1464-7931	5098	6.574	10.894	1.581	43	>10.0	0.01225	4.448
<input type="checkbox"/>	3	FASEB J	0892-6638	38538	6.515	7.201	1.195	462	7.1	0.10353	2.521
<input type="checkbox"/>	4	PHILOS T R SOC B	0962-8436	21141	6.053	6.977	3.019	317	7.3	0.06850	3.081
<input type="checkbox"/>	5	Q REV BIOL	0033-5770	3117	5.818	6.400	0.857	14	>10.0	0.00339	3.495
<input type="checkbox"/>	6	CHRONOBIOL INT	0742-0528	3009	5.576	3.937	0.276	116	4.8	0.00567	0.661
<input type="checkbox"/>	7	BIOSCIENCE	0006-3568	9884	5.510	6.335	0.848	66	9.5	0.01837	2.580
<input type="checkbox"/>	8	BMC BIOL	1741-7007	1709	5.203	5.479	1.500	96	3.0	0.01235	2.459
<input type="checkbox"/>	9	P ROY SOC B-BIOL SCI	0962-8452	31791	5.064	5.443	1.100	452	7.8	0.09051	2.297
<input type="checkbox"/>	10	PHYS LIFE REV	1571-0645	442	4.875	5.552	8.000	12	3.2	0.00235	2.085
<input type="checkbox"/>	11	BIOESSAYS	0265-9247	8862	4.479	5.016	1.198	106	7.2	0.02876	2.203

Impact factor: The journal Impact Factor is the average number of times articles from the journal published in the past two years have been cited in the JCR year.

Journal Analyzer - Scopus

Show journals in: [Line Chart](#) | [Table](#)

[?](#) About calculations



SJR: “SCImago Journal Rank is weighted by the prestige of a journal. Subject field, quality and reputation of the journal have a direct effect on the value of a citation.”

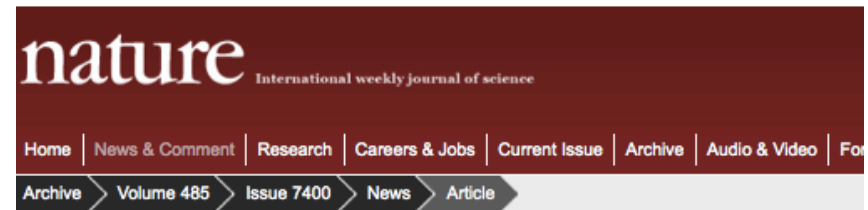
Author Disambiguation

- **Scopus** – Scopus Author Identifier (53 author sets for M.J. Mitchell)
- **Web of Science** – Distinct Author Identification System (494 author sets for MJ Mitchell)
- Google Scholar Profiles
- Institutional ID



ORCID

- Not for profit
- Create registry of unique identifiers for individual researchers
- Open and transparent linking between ORCID and other ID schemes
- Many vendors, institutions are members



NATURE | NEWS

Scientists: your number is up

ORCID scheme will give researchers unique identifiers to improve tracking of publications.

Declan Butler

30 May 2012

In 2011, Y. Wang was the world's most prolific author of scientific publications, with 3,926 to their name — a rate of more than 10 per day. Never heard of them? That's because they are a mixture of many different Y. Wangs, each indistinguishable in the scholarly record.

The list of the world's top 100 authors, all of whom show similarly impressive production rates, is a who's who of conflated Zhangs, Lis, Chens, Lees and other Wangs. But this confusing problem could be solved following the launch later this year of the Open Researcher and Contributor ID (ORCID), an identifier system that will distinguish between authors who share the same name.

Just as barcodes at the supermarket allow the till to distinguish a tomato from a turnip, ORCID aims to reliably attribute research outputs to their true author by assigning every scientist on the planet a machine-readable, 16-digit unique digital identifier. If ORCID takes off, it could revolutionize research management, vastly increase the precision and breadth of scientific metrics and help in developing new analyses of, for



Don't worry, the tattoo is optional.

FREDRIK SKOLD/GETTY IMAGES

Alternative Tools

altmetrics

altmetrics is the creation and study of new metrics based on the Social Web for analyzing, and informing scholarship

total Impact

total Impact

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Sample Collection

run update

download data

17 artifacts; updated 22 May, 2012

article

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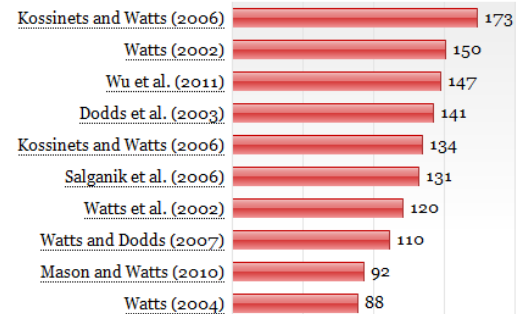
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Key Issue
Collective Action for the Open Researcher & Contributor ID (ORCID)

Fenner M, Gómez C, Thorisson G. *Serials: The Journal for the Serials Community*. 2011;24 (3);277-279.

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an [altmetrics](#) project.

Limitation to altmetrics

- New
- Time frame – some new tools cannot search old mentions, tweets, etc.
- Rely on user generate metadata
- Should social media mentions be given the same weight as scholarly article citations?
- Can these tools be easily manipulated to raise significance of an article?

Scholarly Metrics in Context

Assessing Output Using these Metrics

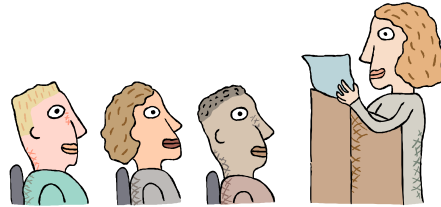
Strengths

- Quantitative information about output
- When used together, tools give a broad picture of the impact of journal publishing activity
- Widely used within academic departments to inform decisions of promotion and tenure

Weaknesses

- Two most popular tools only measure the work that they index
- Traditional tools don't capture grey literature and other informal scholarly communication
- Coverage does not always include lifespan of author's work due to date coverage of tools
- Developed to measure scientific scholarly publishing activity but now being applied to other disciplines where measures may not fit

Framing Discussions with Faculty



- Tools don't replace disciplinary knowledge
- Faculty need to check their publications and citations (citing errors, incorrect institutional affiliations, etc.)
- These tools can help you own your online presence

Criticism and Complaints

- Read and understand documentation and metrics provided by databases
- Define scope and limitations of your output before beginning
- Keep track of your methodology and pay attention to time frames
- Defend your work – you are the expert!



More Information

<http://researchguides.library.syr.edu/citationmetrics>

Questions?

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