Conducting Your Search

This page describes the various means of searching for cited and citing references, measures of influence and impact, altmetrics and bibliometrics.

### Tracking Cited References

Cited references are the articles, books, and other resources listed in a bibliography, a "Works Cited" list, or in a "References" list. Cited references are useful for finding additional articles and books on a topic, for identifying the top researchers in a field, and for promotion and tenure decisions.

Databases tracking cited references make it possible to follow the instances where an author has been cited. This technique may be useful to:

- Track the research of an individual
- Track the history of a research idea
- Locate current research based on earlier research
- Find out how many times and where a publication is being cited
- Find out who is citing a particular source
- Find out how a particular research topic is being used to support other research and to analyze its impact

### Effective Strategies for Increasing Citation Frequency

#### Journal Reputation and Impact:
Publishing a paper in a journal based on disciplinary reputation or with a high impact factor is the most well known way of getting your paper cited. But there are many other things a scholar can do to promote his or her work and make it easy for others to find.

#### Utilize Open Access Tools:
Open Access journals tend to be cited more than non open access. Deposit your paper in a repository such as Scholars Archive here on campus or a disciplinary repository. Share your detailed research data in a repository.

#### Standardize Identifying Info:
Try to use standard identifying information in a repository.

### Take the iLearn Workshop!

Come to one of our iLearn sessions for faculty and graduate students on Maximizing your Research Impact.

Academics who publish (or hope to publish) scholarly research find measuring the impact and influence of their work helps others understand its value within one’s department, institution, even throughout the discipline. In this workshop, learn how to generate unique author identifiers using ORCID and Researcher ID, and how they are used. Discover indicators such as the Journal Impact Factor, the h-index, and altmetrics, and their significance. We will also discuss issues like choosing the best journal for your research, and scholarly networking through tools such as Mendeley. The workshop length is 1 hour. The workshop is held in Li 814. See the iLearn registration page for details.

### Essential Concepts of Scholarly Metrics

#### Citation Metrics:
Citation metrics are a set of tools used to measure the impact of a scholarly work. There are many different types of citation metrics, including the Journal Impact Factor, the h-index, and altmetrics.

#### Journal Impact Factor:
The Journal Impact Factor is a measure of the frequency with which the “average article” in a journal has been cited in a particular year or period. It is calculated by dividing the number of citations received by a journal in a particular year by the number of articles published in the same period.

#### h-index:
The h-index is a measure of both the productivity and impact of a published scientist or scholar. It is calculated by finding the highest number h such that h of a scientist’s n published papers have at least h citations each.

#### Altmetrics:
Altmetrics are a new form of measuring scholarly impact based on web-based and social media sources which can show influence and impact.

### Bibliometrics:
The variety of metrics available based on cited reference data to measure scholarly output, impact, relevance and ranking. Analytics include citation count, impact factor, SNIP, h-index, e-index, and a wide variety of related measurements.

#### Citation Analysis:
The process of tracing various patterns of scholarly behavior through analyzing the cited and/or citing references of a body of work. This could be done on an individual article, author, journal, institution, or other group.

#### Citation Count:
The number of times an article, author, journal, institution, etc. has been cited. Commonly accepted citation counts come from Web of Science. Each source which provides citation counts draws from a different base of resources and therefore the results may differ between Web of Science and Google Scholar, for example.

#### Citation Evaluation:
Simply identifying the number of times someone or something has been cited does not account for certain citation patterns. For example, an author may have one or two articles early in his or her career that have very high citation counts, but later articles have substantially fewer. Another author may have a relatively steady number of citations for each article throughout his or her career.

#### Journal Ranking:
There are a number of metrics that seek to measure the influence of a journal based on how it is being cited in other works. One such metric is the Journal Impact Factor. It should be emphasized that the ranking of a journal is not necessarily a reflection of a single specific article within the journal.
the same name throughout your career as well as the name of your affiliated institution. Using common "official" names will allow for consistency and easy retrieval of your work by author or affiliation.

Bring Colleagues on Board: team-authored articles are cited more frequently, as does publishing with international authors. Working cross-or inter-disciplinarily helps as well.

Beef Up That Paper: use more references, publish a longer paper. Also papers which are published elsewhere after having been rejected are cited more frequently.

Beyond Peer-Reviewed Original Research: Write a review paper. Present a working paper. Write and disseminate web-based tutorials on your topic.

Search Optimization: use keywords in the abstract and assign them to the manuscript. Use descriptive titles that utilize the obvious terms searchers would use to look for your topic, avoiding questions in the title. Select a journal that is indexed in the key library databases for your field.

Market Yourself: create a key phrase that describes your research career and use it. Update your professional web page and publication lists frequently. Link to your latest and greatest article in your professional email signature file.

Utilize Social Media: Use author profiles such as ResearcherID and ORCID. Contribute to Wikipedia, start a blog and/or podcast, join academic social media sites.


Quality Factors & Caveats

Journal Prestige: There are basically two approaches to assessing journal prestige: (1) Perception/ranking of the journals by experts in the field, and (2) Journal ranking metrics providing analysis of citation rates. Other factors, such as journal submission and acceptance rates are also sometimes considered. Consult your Subject Librarian for assistance in this area.

"Good" Metric Scores (citation count, h-index, journal impact factor, journal ranking, etc.): Due to the varying citation rates from discipline to discipline, and even from specialty to specialty within a discipline, it is not possible to give a blanket statement regarding "good" metrics.

Caveats: There are many reasons why an author will cite previous research in his or her paper, and not all are an endorsement of the previous research. Self-citation, disagreeing or contradicting previous findings, and other motivations may not accurately reflect the influence of that work. This holds true for altmetrics counts as well.


Comments (0)
This guide is designed to bring tools, information, sources and tutorials on citation research together in one place. The field of bibliometrics is increasingly being used to evaluate the impact of a scholar’s work (citation counts and altmetrics) or to determine the importance of a journal within a particular field (impact factor). We’ll show you how to find bibliometric data and how to use it appropriately.

Getting Started

If you are looking for ... See ...

- How many times your article has been cited  
  Article Citation Counts
- How many times your book, conference paper, dissertation or patent has been cited  
  Non-article Citation Counts
- How many times your publications have been downloaded or mentioned in social media  
  Altmetrics
- Who is citing your articles  
  Article Citation Counts
- Who is citing your book, conference paper, dissertation or patent  
  Non-article Citation Counts
- Your H-index  
  Article Citation Counts:
  - Web of Science --> Analysis by Author
  - Google Scholar --> Software & Programs
- A journal’s impact factor  
  Journal Rankings
- A journal’s H-index  
  Alternative Sources for Journal Rankings
- Explanations of citation research concepts and terminology  
  Terms & Definitions

Contact Us

Citation Research Group:
Lydia LaFaro
Linda Shackle
Email Us
For information related to your specialty, contact your subject librarian.
Research Impacts Using Citation Metrics

This guide introduces resources that describe, utilize, and support the current research landscape.

Considerations of the roles of author content, sources, impact, reputation, rankings, and benchmarking are increasingly important in analyzing contributions to the research life cycle.

Information here is organized by the different methods of impact that the research landscape is defined by:

- Author Impact
- Article Impact
- Journal/Source Impact
- Institutional Impact

Tools are promoted that can be used to engage in research metrics. Since the landscape is constantly changing, Emerging Metrics are also explored. For basic information on the Science Information Lifecycle visit this tutorial.

Recommended Methods

Some recommended methods of research impact and citation metrics are detailed in the pages of this guide:

- Web of Science Citation Report (Author Impact)
- Google Scholar Author Profile (Author Impact)
- H-index (Author Impact)
- Altmetrics (Article Impact)
- Web of Science Cited Reference Search (Article Impact)
- Journal Citation Reports Impact Factor (IF) (Journal Impact)
- Eigenfactor (Journal Impact)

Research Impacts Using Metrics

Research impact is a measure of the significance and importance of academic work within a scholarly community.

Bibliometrics are the use of quantitative tools to study publications and other written material.

Citation analysis focuses on the statistical patterns and measurements of citations.

Altmetrics is increasingly becoming an alternative and important method of measuring the impact of scholarly and other output and allows for social media tracking by various indicators such as number of tweets, blog posts, likes, bookmarks, etc. and are more timely widening measures of scholarly and other output and allows for social media tracking by various indicators such as number of tweets, blog posts, likes, bookmarks, etc. and are more timely widening measures.

Because of the limitations of each method, it is important to use multiple methods, sources, and tools to get a fuller and more complete analysis. Increasingly, the research community is studying tools and methods of citation analysis are used to determine:

- How many times a publication or author has been cited
- Who is citing a publication or author
- A journal's impact factor (relative importance in a field or discipline)
- An author's published output ranking in a field or discipline.

Because of the limitations of each method, it is important to use multiple methods, sources, and tools to get a fuller and more complete analysis. Increasingly, the research community is studying tools and methods of citation analysis are used to determine:

- How many times a publication or author has been cited
- Who is citing a publication or author
- A journal's impact factor (relative importance in a field or discipline)
- An author's published output ranking in a field or discipline.

Limitations of citation metrics:

- Current cause of concern articulated by scientists in this article about the role of impact factors in determining merits of science and scientists

Acknowledgements

This Guide was initially prepared by Laine Thielstrom (thielstrom@gmail.com) during her Library School internship at the San Jose State University Graduate School of Library & Information Science, and was conducted at the University of California, Irvine Libraries in Fall 2012. Additional revision to the guide was done after consultation with Laura Bowering Mullen, Rutgers University Libraries.
- Errors on citing papers can lead to separate entries and missed counts.
- Author and institutional naming inconsistencies can lead to separate entries and missed counts.
- Different databases use different sources to generate data and some are more comprehensive than others.
- Tools are skewed towards the STEM (science, technology, engineering and medicine) communities of scholars.
- Citations do not measure the number of readings of a work.
- Citations are not the only indicators of the importance of a work.

**DORA**

The San Francisco Declaration on Research Assessment (DORA) has generated a lot of discussion since it was launched by the American Society for Cell Biology in December 2012.

- Additional comments from Science, theBUZZ.
Guide Introduction

The goal of this guide is to assist faculty members, research staff, and graduate students in understanding how to use impact metrics tools currently available.

Considerations need to be made in regards to the role that the author, content, source, impact, ranking, and benchmark have on the research cycle.

Four main areas can be used to determine the impact of research:

- Author Impact
- Article Impact
- Journal/Source Impact
- Institutional Impact

Limitations on Impact Factors

With any statistical measurement, there will always be limitations of the data. Things to keep in mind:

- Errors on citations can lead to multiple entries and missed citations.
- Author and institutional naming inconsistencies can lead to multiple entries and missed citations.
- Different databases use different sources to generate data. Some databases are more comprehensive than others.
- These tools are highly skewed toward STEM (science, technology, engineering, medicine) scholars.
- Citations do not measure the number of times a work has been read or accessed.
- Citations are not and should not be the only indicator of the importance of a work.

The San Francisco Declaration on Research Assessment (DORA), run by the American Society for Cell Biology, has partnered with editors and publishers to ask the scientific community to stop misusing impact factors as a metric to judge scientific output.
Determining Impact from Metrics

Research impact is a measure of the significance and importance of academic work within a scholarly community.

Bibliometrics are the use of quantitative tools to study publications and other written material.

Citation metrics focus on the statistical patterns and measurements of citations.

Citation analysis can be used as a quantifiable measure of academic output and research impact, which can help inform decisions on publication, promotion, and tenure.

Altmetrics is increasingly becoming an alternative and important method of measuring the impact of scholarly output and allows for social media tracking by various indicators such as number of tweets, blog posts, likes, bookmarks, etc. and are more timely wider-ranging measures of how people—both other researchers and the general public have demonstrated interested in an individual's work and contributions.

This guide is designed to help faculty members, graduate students and librarians use and understand the citation analysis tools available to us. At UCLA, there is access to some of the major resources used for citation metrics, for example to obtain an Impact Factor (IF) you could consult the following tools: Web of Science and Journal Citation Reports. Descriptions of and guides to these tools can be accessed using the above drop-down menu, organized according to need.

Tools and methods of citation analysis are used to determine:

- How many times a publication or author has been cited
- Who is citing a publication or author
- A journal’s impact factor (relative importance in a field or discipline)
- An author’s published output ranking in a field or discipline.

Because of the limitations of each method, it is important to use multiple methods, sources, and tools to get a fuller and more complete analysis. Increasingly, the research community is studying how to assess the value of cooperation and collaboration among colleagues, scholars and scientists, with barriers being reduced and geography more global. New metrics and values will likely emerge through different sources, to complement and extend already existing methods and products.

Image credit: http://altmetrics.org/
Enhance Your Research Impact: Intro

http://guides.mclibrary.duke.edu/c.php?g=158197&p=1035857
Representative Documents: Research Guides
Traditionally, and especially in the sciences, impact has been measured by the number of times a particular article is cited in other comparable publications, or more broadly by the “impact factor” of the journal in which an article appears. While the ability to demonstrate impact can still be an important tool in the promotion and tenure process, complementary or "alternative metrics" for measuring disciplinary impact using formal and informal communications are also becoming more common. These "altmetrics" provide rich, evolving, and diverse methods to point to other kinds of impact, for example, impact on the global scholarly community or the general public. The ability to measure impact is often enhanced by free and open access to scholarly publications.

Further reading

"Using bibliometrics in evaluating research." This guide to bibliometrics by Thompson Reuters gives a good overview of impact measures, and provides 10 rules for useful and realistic publication and citation analysis: http://seekinfo.com/mclia/mclya/UsingBibliometricsInEval_WP.pdf


Bibliometrics are ways to measure the impact or influence of an article, journal, or researcher. In one way or another, most bibliometric measures aim at how frequently that article, journal, or researcher is cited. Some of the greatest advantages to using bibliometrics are:

- helping researchers figure out where to publish
- finding the most important journals in a field
Greenberg, Marc L. "Not Waving, But Drowning." Blog post: http://davistrantumorik.blogspot.com/2013/08/not-waving-but-drowning.html


<table>
<thead>
<tr>
<th>Types of Article-Level Metrics</th>
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<tr>
<td>Usage - How many downloads? Where downloaded?</td>
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<td>Examples: KU ScholarWorks</td>
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<td>Captures - How many bookmarks, shares (CiteULike, Mendeley)</td>
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<tr>
<td>Example: Mendeley</td>
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<tr>
<td>Mentions - Mentions in non-academic media (news stories, Wikipedia, etc.)</td>
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<tr>
<td>Example: Altmetric</td>
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<tr>
<td>Social media - Facebook, LinkedIn, Twitter shares</td>
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<td>Example: Altmetric</td>
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<tr>
<td>Citations - Classic metric for &quot;impact&quot;</td>
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<tr>
<td>Example: GoogleScholar, GoogleScholar Metrics</td>
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- guiding students to the most important papers on a topic
- learning about the impact of a paper, researcher, or department

There are many different ways to measure impact, and new ways to view impact are being created now to match changes in research, publishing, and technology. The methods described here are some of the most commonly used.

While each bibliometric measure provides a lot of information, keep in mind that no one measure is thorough enough to fully describe value of a paper, journal, or researcher.

Research Help

We can help with your research questions — contact us by chat, phone, email, text or at a Research Help desk.

Ask a Librarian

Search articles, the catalog, more...

Search

Contact Libraries

University of Kansas Libraries
1425 Jayhawk Blvd
Lawrence, Kansas 66045

Articles & Databases
Library Catalog
e-Journals
Subject & Course Guides

Locations & Hours
My Account
Request Books, Articles...
Ask a Librarian

Send us your comments or questions about the Libraries website.

Contact KU
Lawrence, KS | Maps
Research Impact Metrics

An introduction to different research impact metrics and tools for author disambiguation.

Getting Started

Discussions of Impact Metrics

- Research Impact Assessment: An Overview
  - Metrics: A Profession of Measures
  - The Maze of Impact Metrics
  - A Principal Component Analysis of 39 Scientific Impact Measures
  - Citation Statistics

- Final Impact: What Factors Really Matter?
  - Below is the video of a panel discussion about appropriate ways to gauge the importance and influence of scholarly publications.

UNIVERSITY OF KENTUCKY

http://libguides.uky.edu/metrics
Impact measurements

Profiles & persistent identifiers
Contact us if you'd like help with any of the resources on this page or if you'd like help creating your own researcher profiles and persistent digital identifiers. These can be included in email signatures, webpages, grant applications, resumes, etc.

- ORCID (Open Researcher and Contributor ID)
  An ORCID will associate your research activities and outputs to you with a persistent ID. It is becoming the most prevalent identifier and can be linked with others in this list and resources like arXiv (example: ORCID page).

- ResearcherID
  This ID is found in Web of Science from Thomson Reuters. It displays citation metrics, including your h-index (example).

- Scopus Author Identifier
  Each author in Scopus is automatically assigned a unique number but you should check that your's is up-to-date. It displays citation metrics, including your h-index, and includes a visual author identifier (example).

- My Citations in Google Scholar
  My Citations automatically updates publications and citations from Google Scholar. It displays citation metrics, including your h-index (example).

- ResearchGate
  Creating a profile on ResearchGate may help you stay connected to other researchers in your field but it also offers a score based on your contributions, interactions, and reputation (example).

- Academia.edu
  You can follow other researchers in your field and it also offers analytics on your profile and on your individual papers.

- ImpactStory
  Create an ImpactStory profile to see how often you are cited, saved by scholars, or discussed by the public (example).
Scholarly Metrics

This Guide offers an overview of scholarly metrics and the tools you can use to find them.

What are Scholarly Metrics?

Scholarly metrics are a way for the impact of an article, author, or journal to be measured quantitatively. There are different methods used in order to calculate a scholarly impact with the intent that these works will be judged solely on impact to the field as opposed to using criteria without universal standards.

There has been much debate about the use of impact factors in academia. Many academics feel that scholarly metrics place too much emphasis on the quantity of work as opposed to the quality of the work being produced. Another aspect of this debate is the thought that it pressures authors to publish "hot-topic" articles in only the most "impactful" journals as opposed to producing and experimenting with more original work. The use of analytics has also added fuel to this debate as many believe the mention of articles/presentations through the social web should be included in the review of their scholarly impact. See the Further Reading section below for more information on this debate.

What resources are available and what do they do?

<table>
<thead>
<tr>
<th>Source</th>
<th>Author Level</th>
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<th>Journal Level</th>
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<td>Web of Science</td>
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<td>Journal Citation Reports</td>
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<td>Analytics for Scopus</td>
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<td>Author Evaluator</td>
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<td>Citation Overview</td>
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<td>SciMago</td>
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NEW YORK UNIVERSITY
Scholarly Metrics
http://guides.nyu.edu/content.php?pid=641946
What is Research Impact?

Research impact is the demonstrable contribution that excellent research makes to academia, society and the economy:

- **Academic impact**: Contribution to academic advances, across and within disciplines, in understanding, methods, theory and application
- **Societal impact**: Benefit to individuals, organizations and nations by enhancing quality of life, health and creative output, and increasing the effectiveness of public services and policy
- **Economic impact**: Attracting investment, wealth creation, enhanced national and global competitiveness

The above statements were adapted from the Research Councils UK.

There are several reasons to measure your research impact:

- Application for promotion or tenure
- Quantity return on research investment for grant renewals and progress reports
- Future funding requests
- Identify who is using your work and confirm that it is appropriately credited
- Identify collaborators within or outside of your discipline

The Health and Natural Sciences Team is composed of librarians from the Health Sciences and Kenan Science Libraries.
Citation metrics are statistics on the number of times books or articles have been cited in other publications. Aggregate citation metrics are used as a measure of the influence of authors and of journals. Individual authors track their citations to determine the influence of their work within their field, to see which of their publications are most widely used, and to support their tenure and promotion dossiers. At the journal level, citation metrics are used to measure the relative importance of titles within their fields.

**Journal-Level Metrics**

Some of the most commonly used journal-level metrics include:

- **Impact factor**—a measure of the average number of citations received by recent articles in a given journal.
- **H-index**—a measure of the influence of either a journal or an individual scholar that accounts for both productivity and impact.
- **Acceptance rate**—the percentage of submitted articles that a journal accepts for publication. (The acceptance rate is not a citation metric per se, but it is often used as a measure of a journal’s relative selectivity and prestige. In combination with data like the impact factor, the acceptance rate can be useful in assessing the title’s significance to its field.)

**Article-Level Metrics**

In addition to the measures that calculate the overall impact of a journal, metrics can also be used to calculate the impact of an individual article. The traditional article-level metric is the citation count: the number of times that the article was cited by other scholarly articles.

For another approach to measuring impact, see **Altmetrics**. This suite of metrics includes a variety of measures and tools that trace the impact of research products using metrics besides the traditional, formal citation in other scholarly sources. Some of the measures are designed to account for a wider range of research products (e.g., datasets, software, etc.), while others track impact in a broader variety of venues, especially the social web.

**Web of Knowledge**

The library’s main sources for citation metrics are **Web of Science** and **Journal Citation Reports**. Both are included within **Web of Knowledge**, a collection of databases published by Thompson Reuters.

Web of Science is the online successor to the Science Citation Index and Social Sciences Citation Index.

To access these databases, choose them from the alphabetical list on the library website or via the links above.

See the tabs for the individual citation metrics for detailed instructions on finding each one. Other sources for finding citation metrics include **Google Scholar** and the altmetrics sites.
Citation Searching and Bibliometric Measures: Home

Law of Scattering
80% of the citations come from about 20% of the journals cited, identifying a core set for a local journal collection.


What is Bibliometrics?
- The branch of library science concerned with the application of mathematical and statistical analysis to bibliography, the statistical analysis of books, articles, or other publications.
- In other words... data about publications, or citation frequency.
- Scientometrics is the branch of information science concerned with the application of bibliometrics to the study of the spread of scientific ideas; the bibliometric analysis of science.

Why is this important?
A student asks you “What are the best journals in the field of Anthropology?”
A professor asks you “Who is citing my articles? How many times have I been cited?”
A student asks you “How do I know this article is important?”
A professor asks you “Which journal should I publish in?”

Bibliometrics effects:
- People
- Journal collections
- Research Funding
- Topography
- Expertise status in the field
- Finding others in the field (subject area) using citation searching

Sample Bibliometric Map
Eigenfactor Social Science Citation Relationships 2004
(click on image to enlarge)

Thomson Reuters (ISI Web of Knowledge)

Liaison Librarian
Robin Keer
Email Me

Contact:
2070 Hillman Library
Pittsburgh, PA 15260
412.648.7726

Subjects:
- Computer Science & Intelligent Systems
- Economics, English Literature & Writing
- Gender, Sexuality & Women’s Studies
- Jewish Studies, Social Work
Citation Searching and Bibliometric Measures: Home
http://pitt.libguides.com/bibliometrics

For Librarians
An Open Access tool to support bibliometrics training and awareness offered by four Irish academic libraries (Dublin City University, Dublin Institute of Technology, National University of Ireland, Maynooth, and University College Dublin) and funded by the Irish National Digital Learning Resources (NDLR).
All materials are available under Creative Commons license, enabling you to select, edit and re-package them to suit your local needs.

New Directions for Altmetrics
New research is being done to define ‘altmetrics’ that also define a researcher’s impact. The method of communication can vary but is outside of the traditional journal article.
The University of Pittsburgh has partnered with Plum Analytics to provide alternative methods of measuring research output. We are pioneering this effort.

- Plum Analytics Press Announcement
University of Pittsburgh becomes the first institution to adopt Plum Analytics to provide other metrics for research output.

- Altmetrics in the wild: Using social media to explore scholarly impact
By Jason Pheen, Heather A. Pherson, Bradley M. Hemminger.

“In growing numbers, scholars are integrating social media tools like blogs, Twitter, and Mendeley into their professional communications. The online, public nature of these tools exposes and refines scholarly processes once hidden and ephemeral. Metrics based on this activities could inform broader, faster measures of impact, complementing traditional citation metrics.”

- Scholars Seek Better Ways to Track Impact Online

“An approach called altmetrics—short for alternative metrics—seeks to measure Web-driven scholarly interactions, such as how often research is tweeted, blogged about, or bookmarked.”

- Citation by Citation, New Maps Chart Hot Research and Scholarship’s Hidden Terrain
By Jennifer Howard in the Chronicle of Higher Education, September 11, 2011

“Imagine a Google Maps of scholarship, a set of tools sophisticated enough to help researchers locate hot research, spot hidden connections to other fields, and even identify new disciplines as they emerge in the sprawling terrain of scholarly communication.”
Citation Metrics

Citation analysis is a quantifiable measure of academic output and may help inform decisions on promotion and tenure. This guide is designed to help faculty members and librarians use and understand the tools available to us. We are fortunate to have access to the top paid resources used for citation metrics – Web of Science, Scopus and Journal Citation Reports.

We need to be aware of the limitations and inconsistencies of citation metrics. The databases referenced above, and including Google Scholar, do not correct errors in citing papers. This means that one paper may be cited many different ways and appear as separate entries in these tools. Also, author and institutional naming inconsistencies complicate these analyses.

Comparisons between these tools should be avoided. The databases use different sources to generate data and some are more comprehensive than others. In addition, the literature suggests that these tools are skewed towards the STM (science, technical and medical) community of scholars.

The recommended methods for citation analyses are detailed this guide. Another useful metric for the h-index which can be generated in both Web of Science and Scopus. The h-index is defined as:

A scientist has index h if h of [his/her] Np papers have at least h citations each, and the other (Np − h) papers have at most h citations each.

Comparison across Databases

Useful data can be found in each tool but direct comparisons across databases are problematic. These resources use different pools of data, date ranges and may interpret citations differently. Correct attribution of authorship can also cause reporting errors. Take control of your scholarly output - check your author profiles and register for an ORCID ID.

This chart illustrates reporting differences. Exercising as much consistency as possible, the same author was profiled (11/2012) in each resource. The varied results are displayed above.

Information for Authors

ORCID - Open Researcher ID - is an initiative to provide researchers and scholars with a persistent, unique identifier. This will enable individuals to get recognized for all their scholarly output, in both established and emerging media. With broad-based support from publishers, academic institutions, and funders, ORCID registration and services are free to individuals. Sign up here: http://about.orcid.org/.

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