

Understanding Your Research Impact

Kristin Hoffmann

November 2021

Agenda

- Researcher Identity
- Metrics
- Altmetrics

Guiding Questions

How do scholars track their impact?

How would you explain your impact as a researcher?

What evidence “counts” when determining the value of someone’s work?

Always combine metrics with written explanations and context.

Researcher Identity

Researcher Identity

Why is this important?

- Create a research story
- Gives you control over that narrative
- Unique identifier
- Will be asked at some point to justify the value or impact of your research
- Collaboration and networking

Researcher Disambiguation

Unique identifiers for each individual author allows you to distinguish researchers with similar names from one another

- ORCID Identifier
- Publons
- Scopus Author ID (Scopus)



[https://orcid.org/
0000-0003-2672-6371](https://orcid.org/0000-0003-2672-6371)

Other IDs >

ResearcherID: Q-1324-2016
Scopus Author ID: 34876759800
Scopus Author ID: 34876759800

Countries >

Canada

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Name
Kristin Hoffmann

Activities

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University of Western Ontario: London, Ontario, CA

2006-01 to present | Associate Librarian (Western Libraries)
Employment

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University of Victoria: Victoria, BC, CA

2004-02 to 2005-12
Employment

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"Just Like When I Was a Liaison": Applying a Liaison Approach to Functional Library Models

The Journal of Creative Library Practice
2021-03-26 | journal-article

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Source: Kristin Hoffmann

Survey Research: Useful, Valuable Findings Require Hard Work

Reflections on Practitioner Research: A Practical Guide for Information Professionals
2020-10 | book-chapter

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Kristin M Hoffmann

Web of Science ResearcherID [?]
Q-1324-2016

Librarian - Western University (University of Western Ontario)

PUBLICATIONS

11

TOTAL TIMES CITED

149

H-INDEX

5 [?]

[Summary](#)

[Metrics](#)

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Most cited publications

TIMES CITED


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26 Janet Allen  

[Western University](#) [Back to Scholarship@Western](#) [Expert Gallery](#)



Selected Works of Richard B. Philp




Emeritus Professor of Pharmacology and Toxicology

I am an Emeritus Professor of Pharmacology and Toxicology and former Adjunct Professor of Physiology and Pharmacology of The University of Western Ontario. My post retirement research has focused on the presence of pollutants in the waters of the Florida panhandle and on the effects of one of these, cadmium, on the function of a particular marine sponge. In addition I have surveyed the scientific literature for evidence of adverse effects of herbal remedies and of their interactions with conventional medications. I also write on environmental health issues, having taught environmental toxicology for 15 years. I have served for three years as a member of the Florida Department of Health's Environmental Health Council. [read more](#) →

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Articles (3)

Article
Herbal Remedies: The Good, The Bad, and The Ugly
Journal of Complementary and Integrative Medicine (2006)
Richard B. Philp
In recent years the use of herbal remedies has increased in western society, bringing with it an increase in the risk of adverse effects. This article reviews the scientific literature for evidence of adverse effects of herbal remedies and of their interactions with conventional medications. I also write on environmental health issues, having taught environmental toxicology for 15 years. I have served for three years as a member of the Florida Department of Health's Environmental Health Council. [read more](#) →

[Link](#)

Article
A comparison of the metal content of some benthic species ...
Arch Environ Contam Toxicol (2003)
Richard B. Philp, Fred Y. Leung and Colin Bradley
Benthic marine invertebrates, sediment and water from several locations along the Florida panhandle coast from St. Joseph Bay in the north to Cape St. Charles in the south were analyzed for the presence of 12 metals. The results are presented and discussed in relation to the metal content of the sediments and water. The metal content of the sediments and water is compared with the metal content of the benthic invertebrates. The metal content of the sediments and water is compared with the metal content of the benthic invertebrates. The metal content of the sediments and water is compared with the metal content of the benthic invertebrates.

Article
Effects of experimental manipulation of pH and salinity on Cd2 ...
Arch Environ Contam Toxicol (2001)
Richard B. Philp
Marine sponges (*Microciona prolifera*) collected in St. Joseph Bay, Florida panhandle, were exposed for 3 h to pH/salinity unit combinations of 7.5/10, 7.5/20, 7.5/30, 7.5/40, 7.5/50, 7.5/60, 7.5/70, 7.5/80, 7.5/90, 7.5/100, 7.5/110, 7.5/120, 7.5/130, 7.5/140, 7.5/150, 7.5/160, 7.5/170, 7.5/180, 7.5/190, 7.5/200, 7.5/210, 7.5/220, 7.5/230, 7.5/240, 7.5/250, 7.5/260, 7.5/270, 7.5/280, 7.5/290, 7.5/300, 7.5/310, 7.5/320, 7.5/330, 7.5/340, 7.5/350, 7.5/360, 7.5/370, 7.5/380, 7.5/390, 7.5/400, 7.5/410, 7.5/420, 7.5/430, 7.5/440, 7.5/450, 7.5/460, 7.5/470, 7.5/480, 7.5/490, 7.5/500, 7.5/510, 7.5/520, 7.5/530, 7.5/540, 7.5/550, 7.5/560, 7.5/570, 7.5/580, 7.5/590, 7.5/600, 7.5/610, 7.5/620, 7.5/630, 7.5/640, 7.5/650, 7.5/660, 7.5/670, 7.5/680, 7.5/690, 7.5/700, 7.5/710, 7.5/720, 7.5/730, 7.5/740, 7.5/750, 7.5/760, 7.5/770, 7.5/780, 7.5/790, 7.5/800, 7.5/810, 7.5/820, 7.5/830, 7.5/840, 7.5/850, 7.5/860, 7.5/870, 7.5/880, 7.5/890, 7.5/900, 7.5/910, 7.5/920, 7.5/930, 7.5/940, 7.5/950, 7.5/960, 7.5/970, 7.5/980, 7.5/990, 7.5/1000.

Identifiers & Creating a Record of Research

ORCID

Scopus

Scholarship@Western

publons

ResearchGate



Academia.edu
share research

Proprietary vs. Non-profit tools

- Capacity to control what gets included
- Restricted access vs. Open access
- Attention to preservation
- Ownership of data / identity

Metrics

Metrics = methods of measuring something (usually quantitative) used for tracking and/or assessment

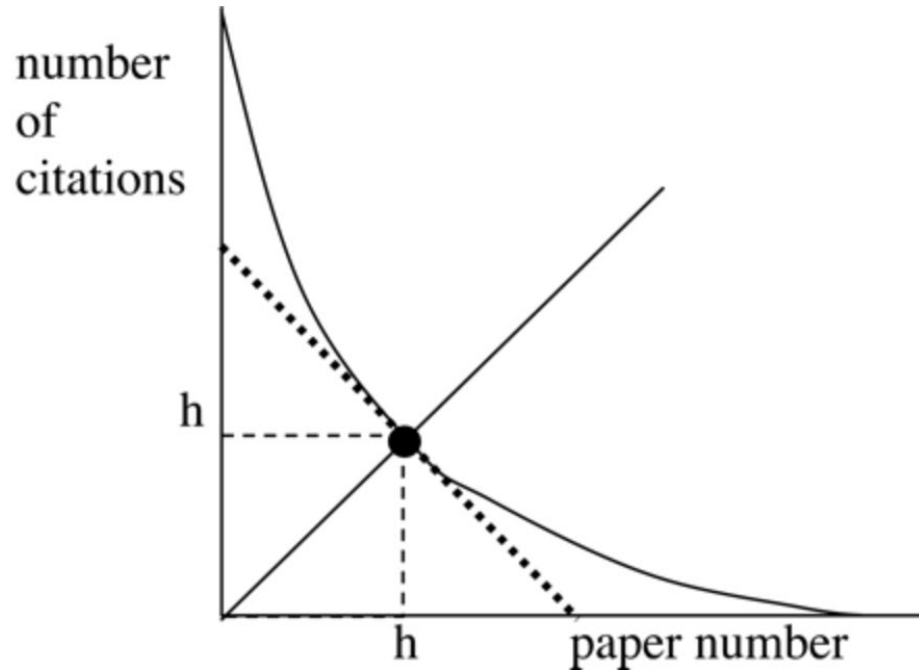
Types of Research Metrics

- **Journal Metrics** track citation patterns within journals and determine which journals are highly-cited.
- **Institution Metrics** measure an institution's overall impact based on the publications of its authors.
- **Article Metrics** involve tracking how many times a publication has been cited.
- **Author Metrics** measure the impact and productivity of a researcher.
- **Altmetrics** expands beyond citation counts to look at how a work is being used on social media, blogs, etc.

What the Numbers Mean...

- **Publication counts:** how many publications by an author
- **Citation counts:** how many citations an author has received
- **h-Index** (by J.E. Hirsch in 2005):
“the index h is defined as the number of papers with citation number $\geq h$ ”
- **i10-Index:** the number of publications with at least 10 citations.

h-Index*



e.g. an h-index of 20 means there are 20 items that have 20 or more citations.

*Hirsch, J. E. (2005). An index to quantify an individual's scientific research output. *Proceedings of the National Academy of Sciences of the United States of America*, 16569-16572.

<http://www.pnas.org/content/102/46/16569.full> Accessed Feb 27, 2018.

Impact Factor

$$\text{IF}_y = \frac{\text{Citations}_y}{\text{Publications}_{y-1} + \text{Publications}_{y-2}}$$

the ratio between the number of citations received in that year for publications in that journal that were published in the two preceding years and the total number of "citable items" published in that journal during the two preceding years (Wikipedia)

- Proprietary – only Clarivate (Web of Science, Journal Citation Reports) can give an Impact Factor
- ONLY FOR JOURNALS. IF says NOTHING about an article or an author.

Demo: Author & Article Metrics

Author & Article Metrics – Pros & Cons

Pro

- Easy to find
- Easy to calculate
- Can be easily compared for researchers in the same discipline
- Commonly used in academia

Con

- Numbers without context (e.g., *how* work is being cited)
- Can only be compared for researchers in the same discipline
- Comprehensiveness and accuracy of data depends on the database contents and authoritativeness

Altmetrics

Altmetrics – Alternative Metrics


- Use of nontraditional metrics (i.e., social web) to measure the impact of scholars in their field of study
- Examples include article downloads, citation in news or social media, blogs, collaborative annotation tools (social bookmarking and reference management services)
- Some publishers now include alternative metrics on their websites

Altmetric Indicators

Indicators commonly used to measure altmetrics:

1. The donut and Altmetric Attention Score
2. Plum Analytics
3. Site-specific measures
(i.e. Scholarship@Western)

The Donut and Altmetric Attention Score


5  online

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The Effects of **State Higher Education Policies** and Institutions on Access by Economically Disadvantaged... by [Lowry, Robert C](#)

Research in Higher Education, 02/2019, Volume 60, Issue 1


...Res High Educ (2019) 60:44–63 <https://doi.org/10.1007/s11162-018-9505-3> 1 3 The Effects of **State Higher Education Policies** and Institutions on Access...

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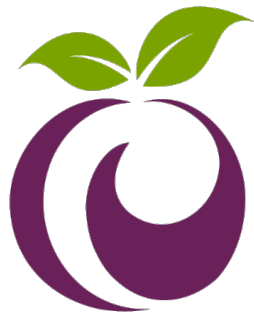
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 12

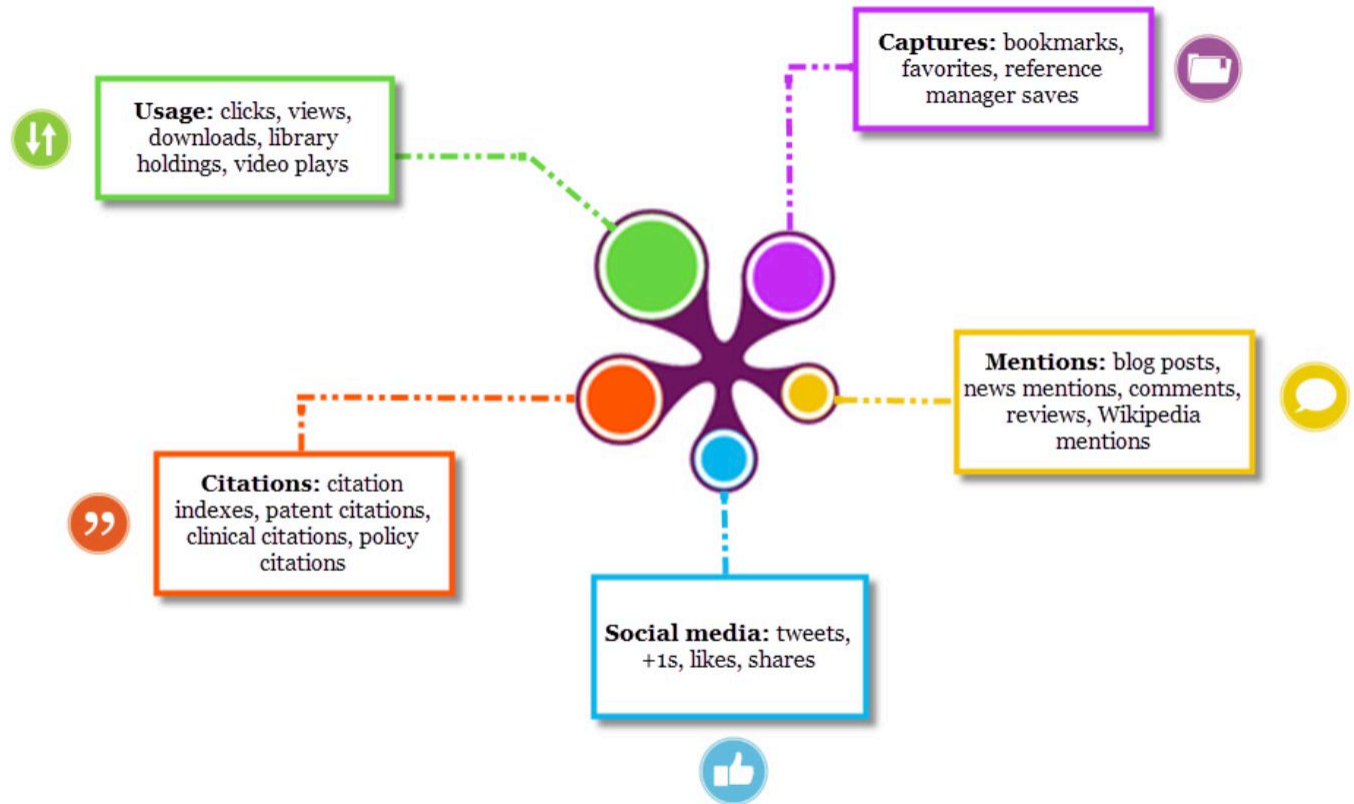
The Colors of the Donut

- Policy documents
- News
- Blogs
- Twitter
- Post-publication peer-reviews
- Facebook
- Sina Weibo
- Syllabi
- Wikipedia
- Google+
- LinkedIn
- Reddit
- Research highlight platform
- Q&A (Stack Overflow)
- Youtube
- Pinterest
- Patents





PLUM ANALYTICS



Social Determinants of Indigenous Health and Indigenous Rights in Policy: A Scoping Review and Analysis of Problem Representation

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Altmetric 13

Abstract

Despite evidence showing the importance of social determinants and Indigenous rights for health and equity, they are not always... This scoping review identified research on public policy and Indigenous systematic search. Key themes identified included the impact of the central role of government in realising rights; and the difficulties of provision of mainstream services for Indigenous Peoples, including Indigenous issues and the legacy of past policies of assimilation. This problem representation was guided by Bacchi (2009). Findings on social determinants of Indigenous health and Indigenous rights in policy rhetoric, but they are not always a priority for action within policy implementation.

Acknowledgments

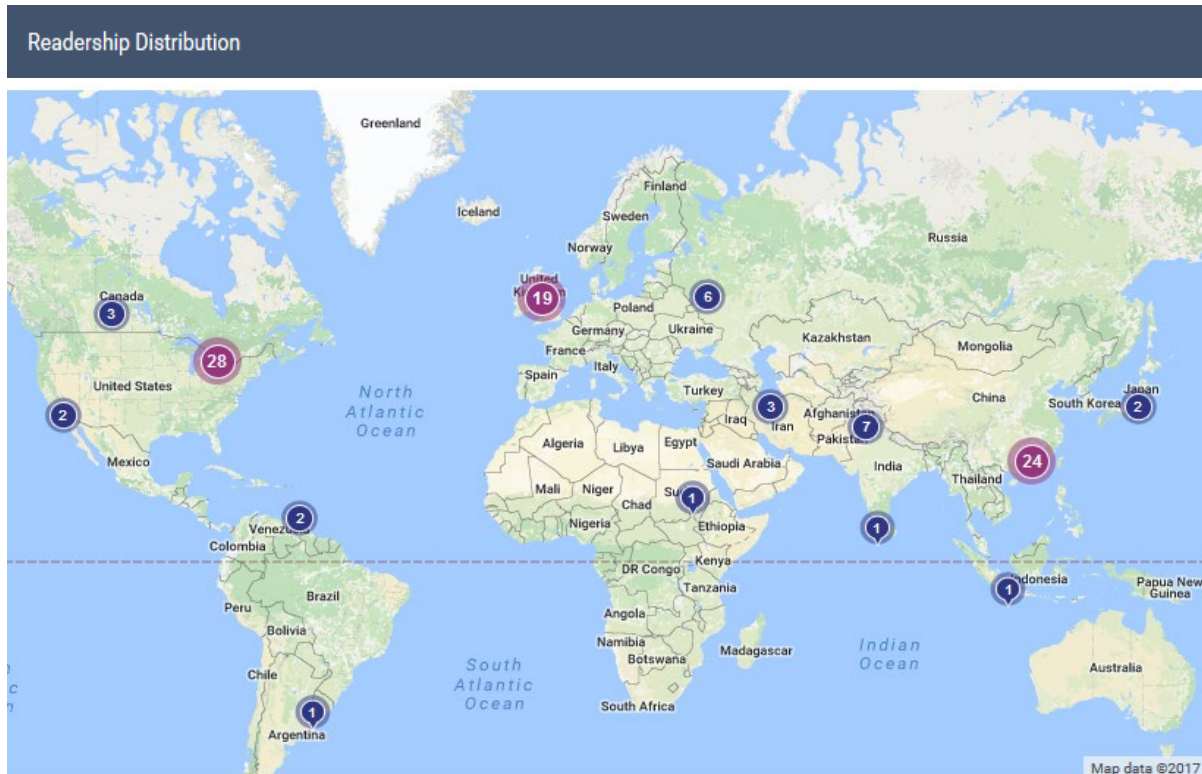
This work was supported by the NHMRC Centre of Research Excellence on the Social Determinants of Health Equity: policy research on the social determinants of health equity (APP1078046). The authors acknowledge the contribution of peer reviewers and thank them for their feedback and recommendations, which enhanced the quality of the article.

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Scholarship@Western

Institutional repository software is able to display the geographic location of readers of papers that are included in it.



Hoffmann, Kristin, and Lise Doucette. 2012. "A Review of Citation Analysis Methodologies for Collection Management." *College & Research Libraries* 73 (4): 321–55.

Demo: Altmetrics

Altmetric Bookmarklet

<https://www.altmetric.com/products/free-tools/bookmarklet/>

For Librarians & Agents | For Authors | Knowable Magazine

Institutional Login | Login | Register

ANNUAL REVIEWS

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Home / Annual Review of Psychology / Volume 69, 2018 / Levitin, pp 51-75

Altmetric it!

24

- Blogged by 2
- Tweeted by 15
- On 1 Facebook pages
- On 1 videos

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The Psychology of Music: Rhythm and Movement

Annual Review of Psychology

Vol. 69:51-75 (Volume publication date January 2018)

First published as a Review in Advance on October 16, 2017

<https://doi-org.proxy1.lib.uwo.ca/10.1146/annurev-psych-122216-011740>

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Altmetrics – Pros & Cons

Pro

- Fuller picture of research use
- Measures all research outputs
- Makes early feedback available
- Includes those outside academia
- Potential networking benefits

Con

- Numbers without context
- Can be easily manipulated
- Is social media a valid forum?
- Resistance from entrenched institutional structures

Jenkins D. (2016). Altmetrics: a brief introduction. The Orb.

http://www.open.ac.uk/blogs/the_orb/?p=1123 Accessed March 3, 2020.

Summary

- Researcher Identity – why it's important, different identifiers, ownership of identity
- Metrics – authors and articles, different sources
 - Altmetrics – the donut, Plum, repository

How do scholars track their impact?

How would you explain your impact as a researcher?

What evidence “counts” when determining the value of someone's work?

Always combine metrics with written explanations and context.

1 minute feedback

https://uwo.eu.qualtrics.com/jfe/form/SV_eu63ESP9h52xNNI

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Questions? Comments?

(now or later)

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