LEADing Liaisons: from behind the scenes to center stage with new roles in metrics

ACRL 2019

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Can you find the h-index for the following list of people?
“An h-index for tenure review?????!!!”
Liaison librarians and research metrics - POLL

Go to Menti.com and enter code 85 04 4

• What are the top 1 to 3 most helpful research metrics you introduce that are new to researchers?
• What are the top 1 to 3 reasons that researchers consult you about research metrics?
• What impact does providing research metrics consultations have on your perceived value by constituencies at your institution?
Ranks ninth nationally in federal science and engineering funding, according to a report from the National Science Foundation.

Ranks fifth among U.S. universities in terms of the competitive grants awarded to members of its faculty by the National Institutes of Health.
WHY NOW?

PLAN FOR PITT (University of Pittsburgh's Strategic Plan)

Goal 2: Engage in Research of Impact
We aspire to be a university that advances the frontiers of knowledge and makes a positive impact on the world through collaborative and multidisciplinary approaches to research that focus on areas of great societal need.

Goal 5: Embrace the World
We aspire to be a university community that is committed to convening bright minds to explore and address global issues that improve life in the world’s local communities. By engaging in research, policy, partnerships, and the study of language and culture, we open the door to global citizenship.
Could you help me run a citation analysis (h-index) for several of my junior faculty? This would be of great help to me as I prepare to discuss their performance.

I'm preparing documents for EB-1b petition. I need to illustrate the impact factor and ranking of the journals with all my publications in the field (XXXX, for me). Is there a tool to do this?

I would be extremely grateful if you could find h-index for the following academics that are in similar area as XXX (I only have CV for XXXXX and it's attached):

What are some options to visually depict my global collaborations?

Can metrics demonstrate the impact of my collaborations with researchers outside my discipline?

Can you meet with some early career researchers in my department to show them how metrics can convey the impact of their work?

Wait—can my social media presence be shown using metrics?
Where is the value of a librarian in 2019?
## Aligning to meet researcher needs

### OLD WORK
- Collection building
- One shot instruction sessions
- Reference Desk Questions
- Librarian in the library
- ONLY knowing subject specific databases well
- Subject librarian

### NEW WORK
- Just in Time Resources
- “Embedded” librarian
- Discipline specific questions in multiple environments
- Librarian with a laptop
- Knowing Google Scholar well
- Functional Specialist
LIAISON REALIGNMENT  Timeline

• 2012  Liaison Librarian Model
• 2014  ULS Seminar on Research Library Service Models for Support of Research Evaluation and Assessment
• 2014  Bibliometrics Specialist Track
• 2015  SciVal subscription
• 2015  1st ORCiD outreach--Engineering
• 2017  2nd ORCiD outreach--Psychology
• 2017  University Senate Plenary & pre-plenary on Bibliometrics
• 2018  Symplectic Elements
Level 1: Specialist
A Specialist has expertise and knowledge in research evaluation & metrics tools, and keeps abreast of emerging issues.
Develops & provides metrics training and support for RIS Managers, Librarians & within UQ
Provides expert advice and tailored metrics reports for UQ Senior Executive and UQ International
Develops and recommends metrics data & benchmarks for inclusion in UQ systems (e.g. eSpace, UQrs SEARCH)
Engages, consults & liaises with external providers in relation to research evaluation initiatives (e.g. Thomson Reuters, ORCID, Impact, Scopus Custom Data)
Is responsible for communication about metrics for UQ Libraries (website, Libnet, blog)

Level 2: Service Provision
A Level 2 Service Provider has a good working knowledge of metrics, including benchmarks.
Can provide training & advice within their field, including conducting workshops on metrics tools and related topics, including author identifiers
Can provide support to Level 1 Specialists for data integrity checking of selected reports

Level 3: Awareness & Understanding, and Basic Service Provision
A Level 3 Service Provider can advise academics on what metrics tools are available & how useful they are within their field, including author identifiers
Has good searching skills for metrics information using Web of Science, Scopus, Google Scholar
Can help academics identify and find relevant metrics including the h-index and journal metrics
Has an awareness of benchmarking tools, including Essential Science Indicators and InCites

Specialist SPaDS
Metrics Service Provider
Selected RIS Librarians

Metrics Awareness & Understanding, and Basic Service Provider
All RIS Librarians & Managers
TELLING THE STORY OF RESEARCH IMPACT...
• on the department website
• in a researcher profile
• in an annual review
• through benchmarking
• through automatically updated publications screen crawls & CVs
• in social media mentions
Collaborative

Department members have rich collaborative networks. We work with each other, with faculty and students in other departments, and with leading scientists throughout the world. This keeps our research on the cutting-edge of new knowledge.

ARTICULATING EVIDENCE OF COLLABORATION AND/OR STANDING WITHIN A DISCIPLINE AND/OR A RESEARCH COMMUNITY
Here's an example—it's a co-authored article that was picked up by The Wire, The World Bank, and Nature.
Toolkit for Bibliometrics Work
Learning, Learning, Learning

DIY—all free!:
- The Scholarly Kitchen
- Elsevier's Library Connect
- The Bibliomagician.wordpress
- The Idealis.org
- ORCiD.org
- Altmetric.com

Classes:
Bibliometrics and Scientometrics for Research Evaluation
www.cwts.nl/education/bibliometrics-and-scientometrics-for-research-evaluation/bibliometric-course-chicago-us
Presentation Resources


From idea to measurable citation counts can take 5 - 10 years.

Due to the pace of scholarly publishing, it takes another 3 - 5 years from the time the work is published to get to critical mass of citation counts.

It can take at least 2 - 5 years from idea to a published peer-reviewed journal article.
Societal Impact – Why does it matter?

• Funders and governments increasingly require real world or societal proof – consider the 2014 Research Excellence Framework exercise conducted in the UK.

• 6,975 impact case studies were submitted categorized by a variety of impact types including:
  - Political
  - Health
  - Technological
  - Economic
  - Legal
  - Cultural
  - Societal
  - Environmental

• Almost 25% of all the cases submitted were labeled Societal Impact

http://impact.ref.ac.uk/CaseStudies/
Societal Impact - Challenges

- Measuring societal impact is not always easy as it can take a long time for this type of impact to be reflected and measurable.

- Sources vary and the accessibility to them also varies.

- There is no standard measure across research areas.
Our approach

- We represent societal/economic impact in our Citations area in three ways:
  - Clinical Citations
  - Policy Citations
  - Patent Citations

- Displayed separate from traditional citation indexes, but included in our overall citation count
Policy and Clinical Citations

• Demonstrates:
  - Public engagement with research
  - Impact on government policy and cultural life
  - Societal impact in general

• Can drive policy makers and legislators to a particular course of action.

• They can also be actual statements of policy by public policy making institutions.
Policy Citations

Policy from different types of organizations:
- Non-profits
- Governmental agencies
- NGOs
- Think tanks

Policy documents can be:
- Guidelines
- White Papers
- Monographs
- Pamphlets
- Articles
- Books
- and more
Policy Citations in PlumX Metrics

Trends in adult body mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19.2 million participants

Publication Year: 2016

Underweight and severe and morbid obesity are associated with highly elevated risks of adverse health outcomes. We estimated trends in mean body mass index (BMI), which characterizes its population distribution, and in the prevalence of a complete set of BMI categories for adults in all countries.

Bibliographic Details
PMID: 27115829
DOI: 10.1016/S0140-6736(16)30054-4
REPOSITORY: http://research-repository.uwa.edu.au/au/author/1542005

Policy Citations
Policy Citation

Most Recent Tweet

Most Recent Blog

PLOS Medicine Special Issues Maternal and Child Health & Nutrition
December 17, 2018 | Speaking of Medicine
The editors of PLOS Medicine, together with guest editors Lars Åke Persson, Keithleen M. Rasmussen and Huei Yang, announce a forthcoming Special Issue dedicated to the role of Nutrition in Maternal and Child Health. Research

Content Description

Obesity in Norway
February 21, 2019 | Norwegian American Weekly
Norwegians gain, but less than Americans: Image: Norwegian Institute of Public Health
The Norwegian Institute of Public Health warns people of the dangers and causes

Provide Feedback
Have ideas for a new metric? Would you like to see something else here? Let us know!
Policy Citations in PlumX Metrics

This article has 5 Policy Document Citations.

IFPRI 2017 Global Food Policy Report
Jan. 1, 2017 | Food and Agriculture Organization by International Food Policy Research Institute (IFPRI)

The International Food Policy Research Institute (IFPRI), established in 1975, provides research-based policy solutions to sustainably re...

Read More
See Full Text

Double-duty actions for nutrition: policy brief
Jan. 1, 2017 | World Health Organization by World Health Organization

Addressing contrasting and confounding forms of malnutrition need not be a zero-sum game. Double-duty actions have the potential to impor...

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See Full Text

An Investment Framework for Nutrition: Reaching the Global Targets for Stunting, Anemia, Breastfeeding and Wasting

In 2015, 150 million children under the age of five were chronically malnourished or stunted, underscoring a massive global health and ec...

Read More
See Full Text

The double burden of malnutrition: policy brief
Jan. 1, 2016 | World Health Organization by World Health Organization

This policy brief explains the double burden of malnutrition now facing many countries worldwide — characterized by the coexistence of un...

Read More
See Full Text

Informe mundial sobre la diabetes
Jan. 1, 2016 | World Health Organization by Organización Mundial de la Salud; World Health Organization

La diabetes es una grave enfermedad crónica que se desencadena cuando el páncreas no produce suficiente insulina (una hormona que regula ...
...clinical medicine draws heavily on basic science, but not vice versa. The result is that basic medicine is cited three to five times more than clinical medicine, and this is reflected in journal impact factors.”


Why the impact factor of journals should not be used for evaluating research.

P. O. Seglen
Clinical Citations Come From…

- Clinical Alerting Services
- Clinical Guidelines
- Systematic Reviews
- Clinical Trials
Societal Impact – Clinical Citations
**Zika virus infection**

**Overview and Recommendations / Background**

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**Overview and Recommendations**

**Background**

- **Zika virus** is a mosquito-borne flavivirus transmitted primarily by *Aedes aegypti* mosquitoes.
- The largest outbreak to date is presently ongoing in the Americas, and certain areas of Southeast Asia and the Pacific Islands.
  - The first cases of local Zika virus transmission during this outbreak were reported in Brazil in May of 2015, where an estimated 500,000 to 1.5 million persons have since been infected.
  - The outbreak has now spread throughout Central and South America, Mexico, and the Caribbean, including Puerto Rico and the United States Virgin Islands.
  - Local transmission has been reported in Florida within the continental United States and over 1000 cases of Zika virus infection have been reported among travelers returning to the United States from affected areas.
  - Other regions with local Zika virus transmission include Singapore, Thailand, and Cape Verde.
Patent Citations

- A **patent citation** is any document cited by a **patent** applicant, a third-party, or a **patent** office examiner because it's relevant to a **patent** application.
- Gain an understanding of how much research is being used in the creation of products by seeing the total number of outputs that received patents.
- Provide information about the economic impact of research.
Patent Citations

• Citation of scholarly output in patents indicates a connection between academia and industry.

• Patents citation contains valuable data and if analyzed well, may sometimes reveal concealed mysteries of the information flow between countries, laboratories, companies, and universities.

Societal Impact – HERL at University of Pittsburgh
Societal Impact – Patent Citations

Variable compliance joystick with compensation algorithms

Publication Year: 2010
Researchers: Roy A. Cooper

CITATIONS

 Patent Citations: 10
 US Patent: 10

PATENT SUMMARY

GROUPS:
University Centers, Institutes, and Research Centers
- Other Centers, Institutes, or Units
- Human Engineering Research Laboratories

RESEARCHERS:
Roy A. Cooper

US PATENT PUBLICATION ID:
8264456

AUTHOR(S):
Roy A. Cooper; Donald Spaul; Songfeng Guo

PATENT DESCRIPTION
The present invention provides variable compliance joysticks with mechanical and software customization, and with an integrated control capability, and a method of systematically determining the best mechanical settings and compensatory algorithms to embed in the system.
Societal Impact – Patent Citations

Results of Search in US Patent Collection db for:
REF/8264458 10 patents
1st 1 through 10 of 10

<table>
<thead>
<tr>
<th>PAT. NO.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 10 873 468</td>
<td>Multifunction joystick apparatus and a method for using same</td>
</tr>
<tr>
<td>2 10 815 460</td>
<td>Control and display system with synchronous direct view video array and incident key lighting</td>
</tr>
<tr>
<td>3 9 941 767</td>
<td>Adjustable tension thumbstick</td>
</tr>
<tr>
<td>4 9 911 567</td>
<td>Adjustable tension thumbstick</td>
</tr>
<tr>
<td>5 9 809 965</td>
<td>Control device for an implement system</td>
</tr>
<tr>
<td>6 9 730 050</td>
<td>Control system and method for controlling the movement of an aerial apparatus</td>
</tr>
<tr>
<td>7 9 236 822</td>
<td>Electromotive furniture drive including a power supply device</td>
</tr>
<tr>
<td>8 9 060 360</td>
<td>Cryogenically cooled radiation shield device and associated method</td>
</tr>
<tr>
<td>9 8 889 834</td>
<td>Cryogenically cooled radiation shield device and associated method</td>
</tr>
<tr>
<td>10 8 511 621</td>
<td>Device for painting a craft having an electromagnetic actuator</td>
</tr>
</tbody>
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Looking Forward: Research Metrics at Elsevier

**Supporting and developing metrics for the full lifecycle of research**

We strive for **broader use** of **open metrics** that can be **used by everyone responsibly**.
Elsevier and Research Metrics

Our Metrics Manifesto

• Need to use different metrics and common sense
  • Decisions should be based on both quantitative and qualitative input
  • Should always use at least two metrics (more than one way to ‘excellence’)

• The methodologies should be open, transparent, valid and replicable

• Definitions should be owned by the community
  • Need trust between the parties using metrics to evaluate.
Questions? Comments?

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Take the full survey on liaison librarians and research metrics:
https://www.surveymonkey.com/r/GM255BC
Thank you