

This session builds on related workshops...

Manage your researcher profiles

Making sure your profiles are up to date so your publications can be tracked



Develop your personal publishing strategy

Open Access Publishing

Finding the best places to publish your research, to reach your audiences

This workshop will cover

- What is impact and why should we track it?
- Using citation based metrics
- Showcase of 3 tools:

SciVal

Overton

Altmetric for institutions



Asteroid by Freepik via Flaticon.com

What is impact?

Australian Research Council

"Research impact is the contribution that research makes to the economy, society, environment or culture, beyond the contribution to academic research."

NHMRC

"the verifiable outcomes that research makes to knowledge, health, the economy and/or society, and not the prospective or anticipated effects of the research."



Inputs	Activities	Outputs	Outcomes	Benefits
Research income	Research Work and	 Publications 	Commercial Products,	• Economic, Health,
Staff	Training	including e- publications	Licences	Social, Cultural, Environmental,
Background IP	Workshop/Confer ence Organising	Additions to National	and RevenueNew Companies –	National Security, Quality of Life, Public
Infrastructure	Facility Use	Collections	Spin offs, Start Ups or Joint Ventures	Policy or
Collections		a NavylD	Of Joint Ventures	Services

Job Creation

Programs and

Policy

Citations

Integration

Implementation of

Higher

Quality

Workforce

Job Creation

Risk Reduction

in Decision

Making

New IP:

Media

Patents and

Policy Briefings

Inventions

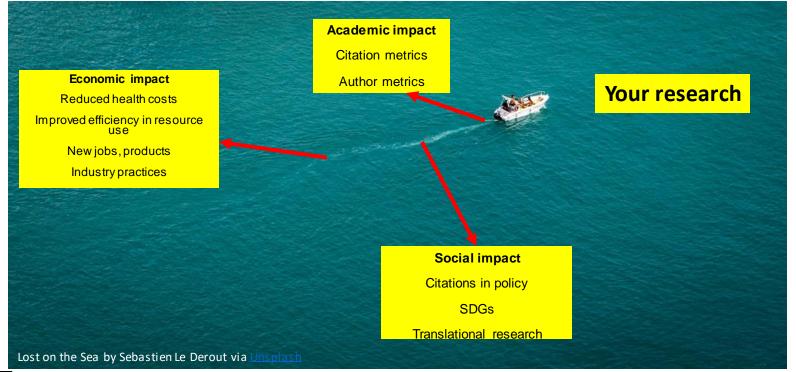
Research Impact Pathway

Societies and Academies Community and Stakeholder Engagement

Membership of

Learned

Academic, social, economic impact



Tools







Citing policy documents



Altmetric for Insitutions

Alternative metrics (attention outside of academia)

Tracks outputs with a DOI or unique handle

SciVal

Citation based metrics
Publication reports
SDGs



Academic impact Citation based metrics- advantages



Citation based metrics are one of many ways to measure how our research output influence other scholars



Citation based metrics are trackable, comparable and documentable



Citation based metrics are heavily considered by evaluators in discipline areas like Health, Life Sciences, etc.

Academic impact Citation based metrics- limitations

- Each citation platform has coverage limits (journal titles and years)
- Citation numbers do not consider authorship
- Citations and mentions: positive + negative
- Self-citations
- Difference between disciplines
- Journal articles are easily tracked by metrics rather than other type of publications like books, arts, etc.
- Your career can't be boiled down to a score!





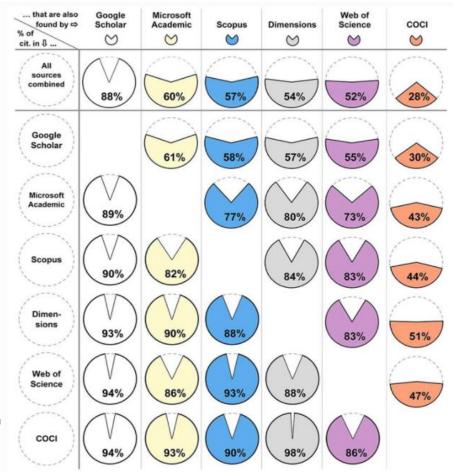
Citation tracking platforms

- Scopus and SciVal
- Web of Science and InCites
- Google Scholar
- Dimensions

Access via library subscriptions

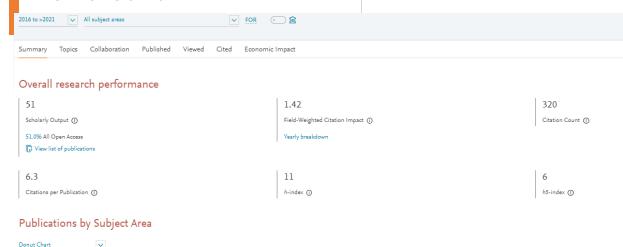
Martín-Martín, A., Thelwall, M., Orduna-Malea, E., & Delgado López-Cózar, E. (2021). Google Scholar, Microsoft Academic, Scopus, Dimensions, Web of Science, and OpenCitations' COCI: a multidisciplinary comparison of coverage via citations. *Scientometrics*, 126(1), 871-906. 10.1007/s11192-020-03690-4



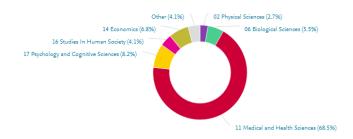


Using citation based metrics Demo-SciVal

1). Find author metrics in SciVal Overview module



Important! Accurate data are based on well-maintained profiles, combine multiple profiles if your publications are split into multiple profiles.

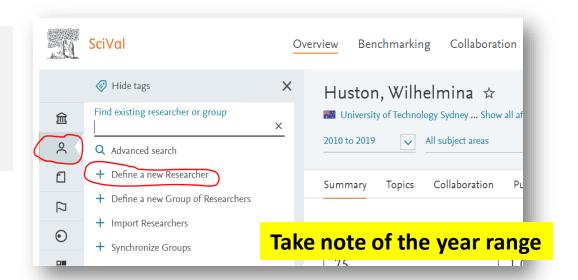


Demo: SciVal – Generating reports

- 1. Log into <u>SciVal</u> and navigate to the "Overview" module
- Click on "Define a new researcher" and search by author name
 Important! combine multiple profiles if your publications are split into multiple profiles
- 3. To generate a report, add sections of interest by clicking "Add to Reporting"
- 4. Print/edit/export your report by navigating to "Reporting"

The overview shows:

- Author FWCI
- h5-index
- Publications in top journal percentiles
- FWCI in SciVal topic areas
- Collaboration analysis
- Authorship analysis



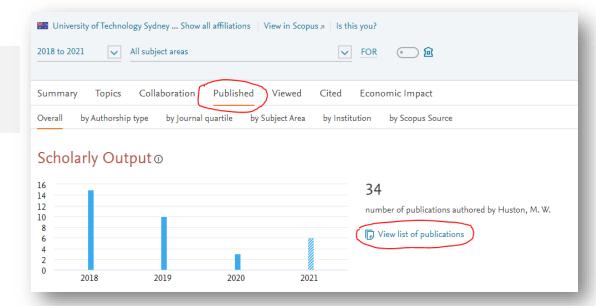


Demo: SciVal – Finding publication metrics

- 1. From the Overview module, click on "Published" \rightarrow "View list of publications"
- Click on "Export" → "Export spreadsheet"
- 3. Choose metrics of interest and then "Export XLSX"

Useful metrics available include:

- Sustainable development goals
- Citations
- Field weighted Citation Impact





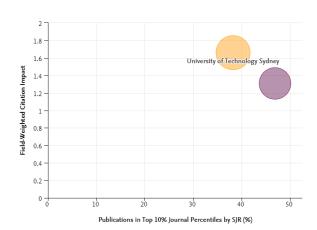
Using citation based metrics Demo-SciVal

2). Use Benchmarking module to compare your metrics with others (individual researchers or groups)

Field-Weighted Citation
Impact \$

Output in Top 10% Citation Percentiles (%) \$

View timeline motion chart



☑ University of Technology Sydney
 Individual researcher

 ☐ Hide all chart labels

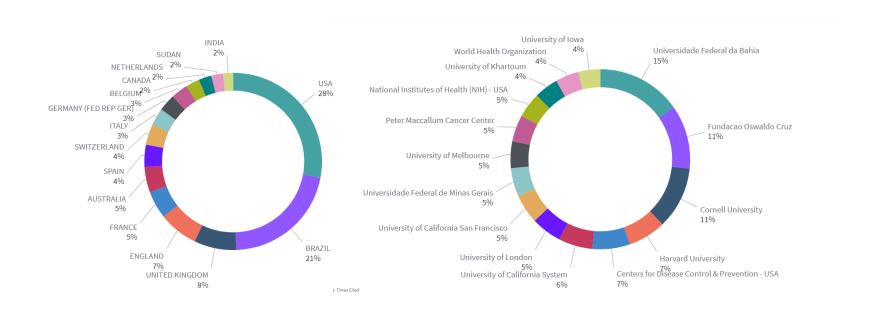
 View list of Scopus Sources for the selected Researchers and Gro



Output in Top 10% Citation Percentiles (%)

Using citation based metrics Finding who are citing you

- 1). Exporting publications cited your work to InCites
- 2). Choose filters of researchers, organisations, locations, etc.



Useful metrics may include...

Author metrics

- H-index
- H5-index
- FWCI
- Collaboration analysis
- Contribution to topics
- Total number of publications or citations

Article metrics

- FWCI
- Citation percentiles
- Views

Journal metrics

- Journal quartiles and ranking e.g. SNIP, SJR, JIF
- Proportion of articles
 published in top journal
 percentiles

More information of the metrics can be found from

<u>lib.uts.edu.au/services/services-for-researchers/demonstrate-your-impact</u>



An sample metrics statement for an early career researcher

Sarah's career h-index is 3 with 6 publications which have received a total of 25 citations (Scopus). Her field-weighted citation impact (FWCI) is 1.2, and 3 of her articles have been published in the top 25% (Q1) journals in Health Informatics as ranked by SJR, one article with Sarah as the first author has ranked in top 6% in the field of neuroscience globally.

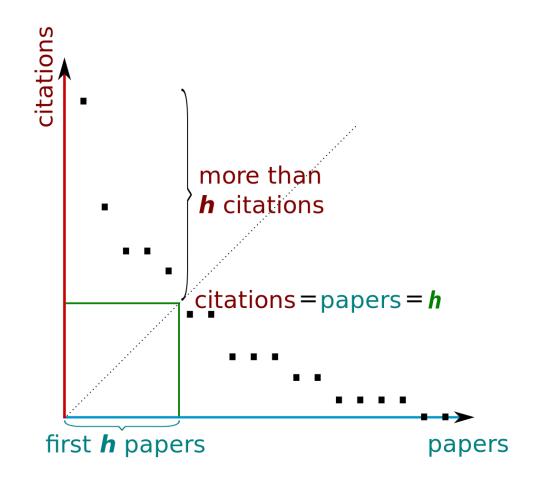
H-index

Author metric

"The *h*-index is the largest number *h* such that h articles have at least *h* citations each.

For example, if an author has five publications, with 9, 7, 6, 2, and 1 citations (ordered from greatest to least), then the author's *h*-index is 3, because the author has three publications with 3 or more citations. However, the author does *not* have four publications with 4 or more citations."

(Wikipedia)



Field weighted citation impact (FWCI)

Article or author metric

Indicates how the number of citations received by an article compares to the average or expected number of citations received by other similar publications.

- An FWCI of 1 means that the output performs just as expected against the global average.
- More than 1 means that the output is more cited than expected according to the global average; for example, 1.48 means 48% more cited than average.



Journal quartiles and ranking

Journal metrics

Metrics which use different formulas to calculate a journal's impact. These scores represent how many citations each journal attracts and are used to rank journals. Used to describe the impact of the journal you have published in.

Field	oM-k	rmal	ised
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SNIP SJR

Not Field-Normalised

JIF (Journal Impact Factor)
CiteScore

~_

Q2

Q3

Q4



How can we get cited more?



Read highly cited articles



Publish in higher ranked journals



Manage profiles and promote research

Social impact

The "real world" benefit your research has had.

Some things that are useful to look for include:

- Citations in policy papers, reports or guidelines
- Media mentions
- Wikipedia citations



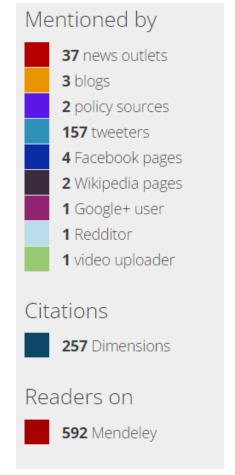
= people are using your research to inform approaches, further understanding, build capacity, in everyday practice, etc.

Overton and Altmetric for instutitions can be used to locate leads



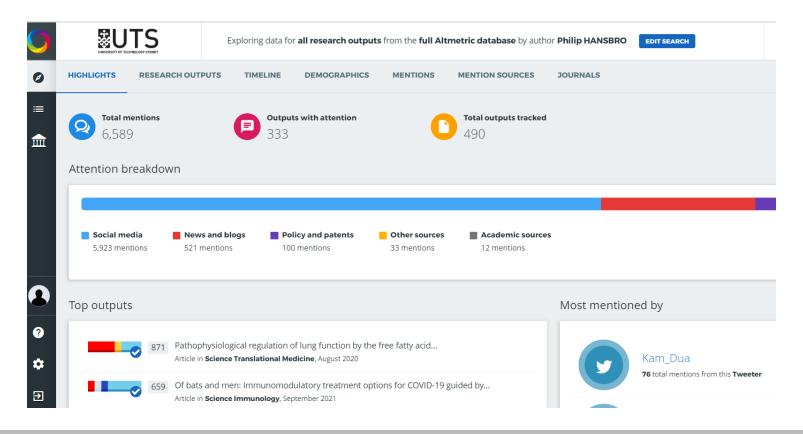
Metrics Details	
CITATIONS	47
Citation Indexes	44
Scopus ₹	44
CrossRef	37
PubMed Central ↗	7
Clinical Citations	1
PubMed Guidelines	1
Patent Family Citations	1
Patent Families	1
Policy Citations	1
Policy Citation	1
USAGE	254
Abstract Views	243
*EBSCO	243
Historical data only	
Link-outs	11
Link-outs *FBSCO	11 11
Link-outs *EBSCO Historical data only	11 11
*EBSCO	
*EBSCO Historical data only	11
*EBSCO Historical data only CAPTURES	11 49
*EBSCO Historical data only CAPTURES Readers	49 43



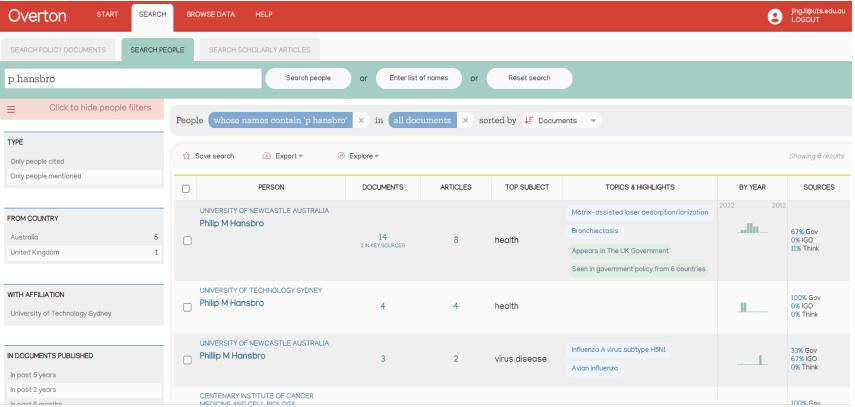


Demo: Altmetric for Institutions



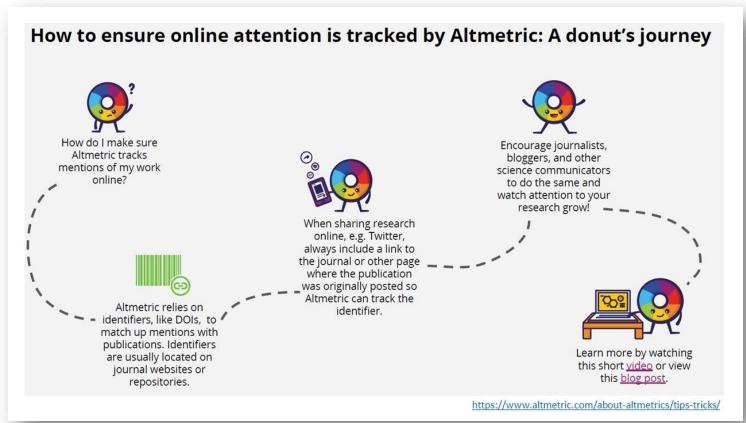


Demo: Overton





How are these publications tracked?



Economic impact

The monetary impact your research has had – e.g. cost savings, improved efficiency or productivity

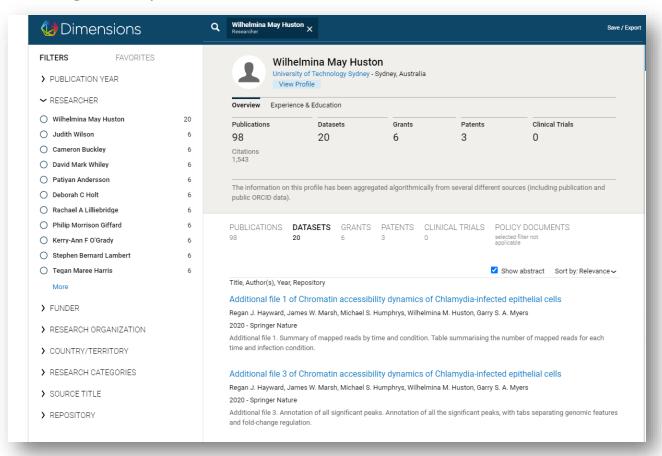
Useful leads include:

- Citations and mentions in patents
- Government and industry funding



<u>Dimensions</u> and <u>Lens.org</u> can be used to locate leads

Dimensions for grants, patents (and SDGs)





Using Dimensions to find SDGs

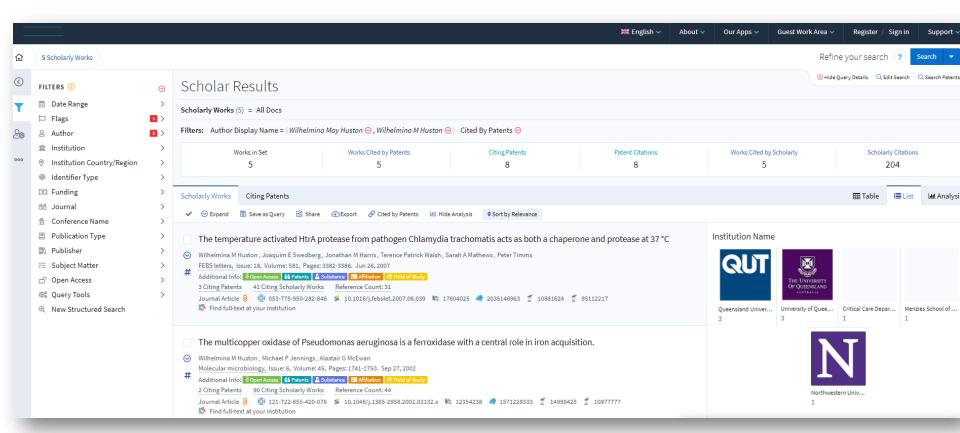
- 1. Log in to <u>Dimensions</u> using your UTS email
- 2. Use the 'Researcher' filter to locate your name and click "limit"
- 3. Click on researcher categories and select 'sustainable development goals'

Tip: Go via Symplectic to locate your Dimensions profile(s)

- ➤ RESEARCH CATEGORIES
 - > FIELDS OF RESEARCH
 - > RESEARCH, CONDITION, AND DISEA...
 - > HEALTH CATEGORY (HRCS)
 - > RESEARCH ACTIVITY CODES (HRCS)
 - > ICRP CANCER TYPES
 - ICRP COMMON SCIENTIFIC OUTLIN...
 - > UNITS OF ASSESSMENT
 - ✓ SUSTAINABLE DEVELOPMENT GOA...
 - 3 Good Health and Well Being

Lens.org for patent citations

https://www.lens.org/



Top tips for boosting impact

- Supply ORCID ID and use UTS byline when you publish
- Maintain your author profiles, combine multiple profiles before extracting citation metrics
- Try to publish in Open Access or provide copyright cleared versions of your publications to OA repositories,
 e.g. <u>OPUS</u>
- Develop and make available summaries of your research and data including infographics, images, and files for people to share
- Provide author opinion and editorial content for <u>mainstream press</u>
- Always include DOIs when you discuss your publications in digital platforms



Support and resources

Support

- Research Office: UTS research output management systems, funding applications,
 IP and commercialization
- <u>Library</u>: request workshops and consultations for individual research and group benchmarking metrics

Resources

- Staff Connect <u>UTS Library of Successful Grant Applications</u>
- SharePoint-Research Outputs Support
- Library Pages tips for ARC Discovery schemes, demonstrating impact

