



Library

UTS

Track The Impact Of Your Research Publications

Presented by Jing Li

Co-hosts: Wei Cai, Meijun Huang, Sarah Su

What do we cover today

- What is research impact?
- How to find traditional metrics using: Scopus, Web of Science, SciVal, Google Scholar
- How to find Altmetrics using: Altmetrics for Institutions, PlumX
- How to find funding information and patent citations using: Dimensions, Lens.org



Library

**Research impact is far more beyond
publications and metrics!**



Library

Research Impact

Australian Research Council defines “Research impact is the contribution that research makes to the **economy**, **society**, **environment** or **culture**, beyond the contribution to **academic research**.”

NHMRC “defines the impact of research as the verifiable outcomes that research makes to **knowledge**, **health**, the **economy** and/or **society**, and not the prospective or anticipated effects of the research.”

Research Impact Pathway				
Inputs	Activities	Outputs	Outcomes	Benefits
<ul style="list-style-type: none"> • Research income • Staff • Background IP • Infrastructure • Collections 	<ul style="list-style-type: none"> • Research Work and Training • Workshop/Conference Organising • Facility Use • Membership of Learned Societies and Academies • Community and Stakeholder Engagement 	<ul style="list-style-type: none"> • Publications including E-Publications • Addition to National Collections • New IP: Patents and Inventions • Policy Briefings • Media 	<ul style="list-style-type: none"> • Commercial Products, Licences and Revenue • New Companies – Spin offs, Start Ups or Joint Ventures • Job Creation • Implementation of Programs and Policy • Citations • Integration into Policy 	<ul style="list-style-type: none"> • Economic, Health, Social, Cultural, Environmental, National Security, Quality of Life, Public Policy or Services • Higher Quality Workforce • Job Creation • Risk Reduction in Decision Making

<https://www.arc.gov.au/policies-strategies/strategy/research-impact-principles-framework>

Use metrics responsibly

Advantages

- Publications are well documented and accessible
- Citations and mentions are based on numbers and quantitative
- [Definitions of selected metrics](#)

Limitations

- Citations and mentions: positive + negative
<https://scite.ai/> - find supporting and contradicting citations
- Self-citations
- Difference between disciplines
- Journal articles are easily tracked by metrics rather than other type of publications like books, arts, etc.



Library

Use metrics to track Academic Impact

Tools to use:

([access from UTS library- databases- publishing and metrics](#))

- Scopus
- Web of Science (WOS)
- SciVal
- InCites
- Google Scholar
- Dimensions
- Microsoft Academics

Selected metrics/indicators to

Compare within same discipline area and time period

- Total number of publications
- Total number of citations
- Average citations per article
- [h-index](#) and h5-index

Compare cross different discipline areas and time periods

- [Field-weighted citation impact \(FWCI\)](#)
- Publications in top journal percentiles (by SNIP)
- Highly cited papers (WOS top 1% articles in the same field same year)

Other

- Publications in topic areas
- Researchers collaborated with you
- Researchers cited your publications

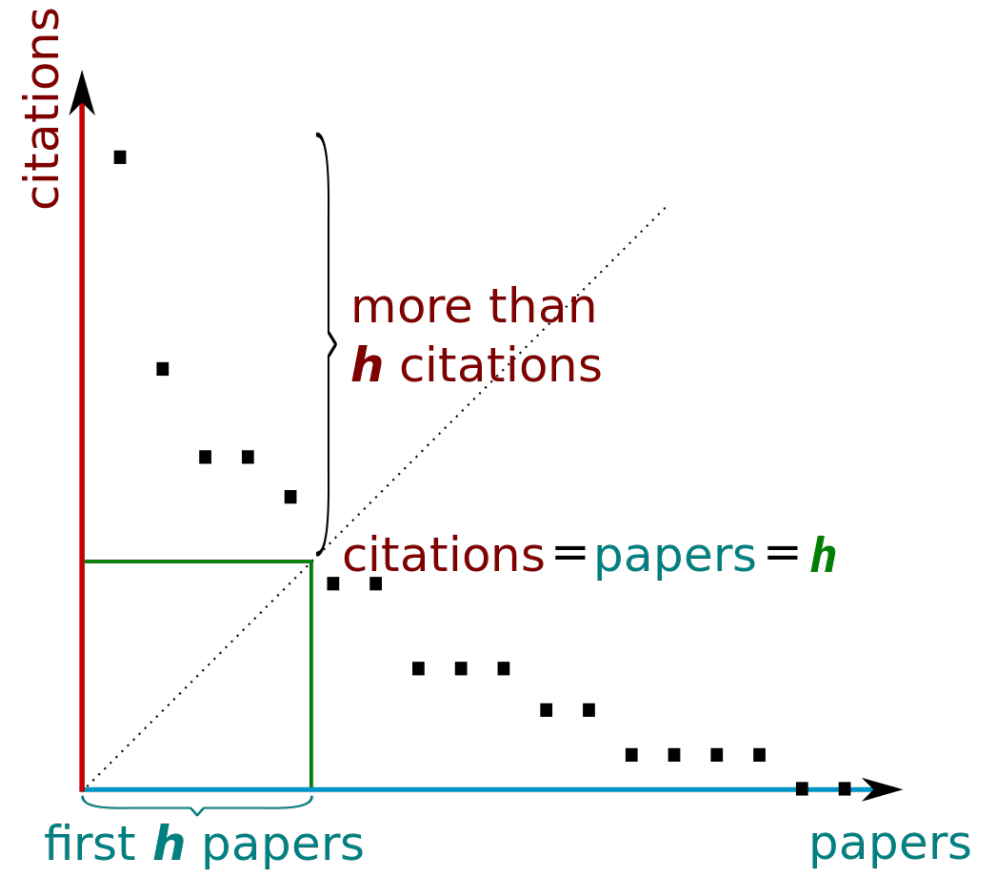
Field Weighted Citation Impact (FWCI)

FWCI takes into account the differences in research behaviour across disciplines, it can be used to compare results between different disciplines.

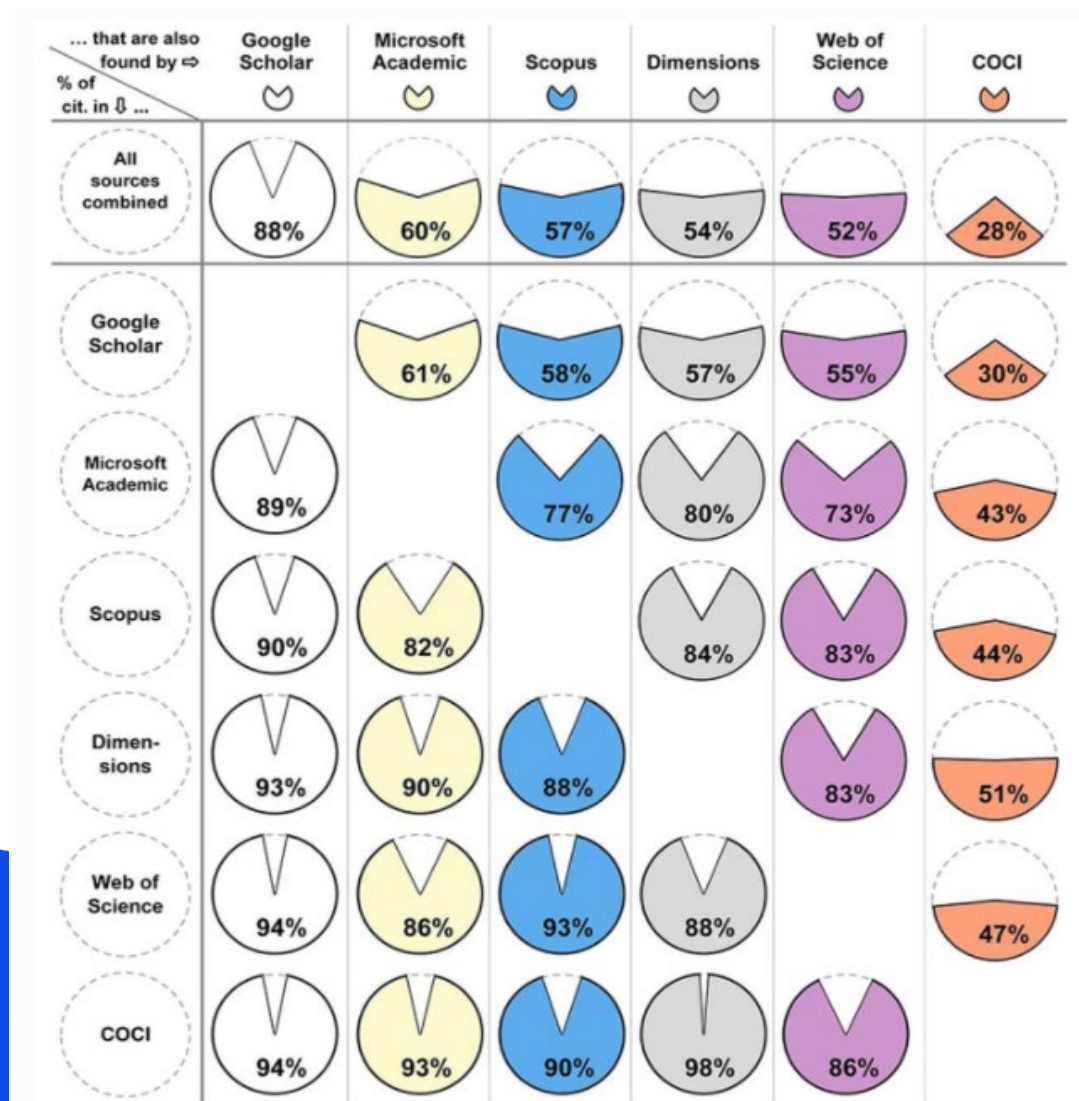
- Field Weighted Citation Impact (FWCI) is the **ratio** of the **total citations** received by the researcher's output, and the total citations that would be expected based on the **average** of the **subject field, year & document type**.
- An FWCI of 1 means that the output performs just as expected 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**.

h-index

- Definition: number (h) of articles that have received at least (h) citations over the whole period.
- h-index measures both quality and quantity of research publications
- h-index should NOT be used to compare researchers in difference disciplines



Coverage of different citation tools



Percentage of citations found by each database, relative to all citations (first row), and relative to citations found by the other databases (subsequent rows)

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](https://doi.org/10.1007/s11192-020-03690-4)

Journal metrics used by Scopus: CiteScore, SJR and SNIP

- **CiteScore** is the raw number of citations divided by publications of a journal in a 3 years window.
- **SJR (Scimago Journal Rankings)** considers the difference of citations received from different journals, it means citations from higher ranked journals gain more weight than citations from lower ranked journals, for example, a citation from Nature values much more than a citation from Lecture Notes in Computer Science.
- **SNIP (Source Normalized Impact Per Paper)** considers the citing pattern/potential of journals in different subject fields, for example, authors in maths study area normally cite less (use less references) than authors in medical study area. SNIP uses a formula to eliminate this difference and make journals from different subject areas comparable.

Find your metrics in Scopus

It's important to check your author records before finding your metrics!

1. In Scopus Author Search, type in surname and initials
2. Refine search results by selecting affiliations
3. If your publications are split into multiple author records, check publication list of each record, tick all the records below to you and click "Request to merge authors"

2 author results

About Scopus Author Identifier >

Author last name "huston", Author first name "w" Refined with: (LIMIT-TO (AF-ID , "University of Technology Sydney" 60023932))

[Edit](#)

☐ Show exact matches only

Refine results

[Limit to](#) [Exclude](#)

Affiliation ^

- ☐ University of Technology Sydney (2) >
- ☐ Queensland Clinical Chlamydia Research Network (1) >
- ☐ Queensland University of Technology (1) >
- ☐ The University of Queensland (1) >
- ☐ The Wesley Hospital (1) >

[View more](#)

City ^

Sort on: Document count (high-low) v

[All](#) v [Show documents](#) [View citation overview](#) **Request to merge authors** [Save to author list](#)

	Author	Documents	h-index	Affiliation	City	Country/Territory
1	Huston, Wilhelmina Huston, Wilhelmina May Huston, Willa M. Huston, Wilhelmina Willa M.	92	20	University of Technology Sydney	Sydney	Australia
View last title v						
2	Huston, Wilhelmina M.	1	0	University of Technology Sydney	Sydney	Australia
View last title v						

Display: 20 results per page 1 ^ Top of page

Find your metrics in Scopus

In Author profile page:

- Total number of publications
- Total number of citations
- h-index

Click “Analyze author output”

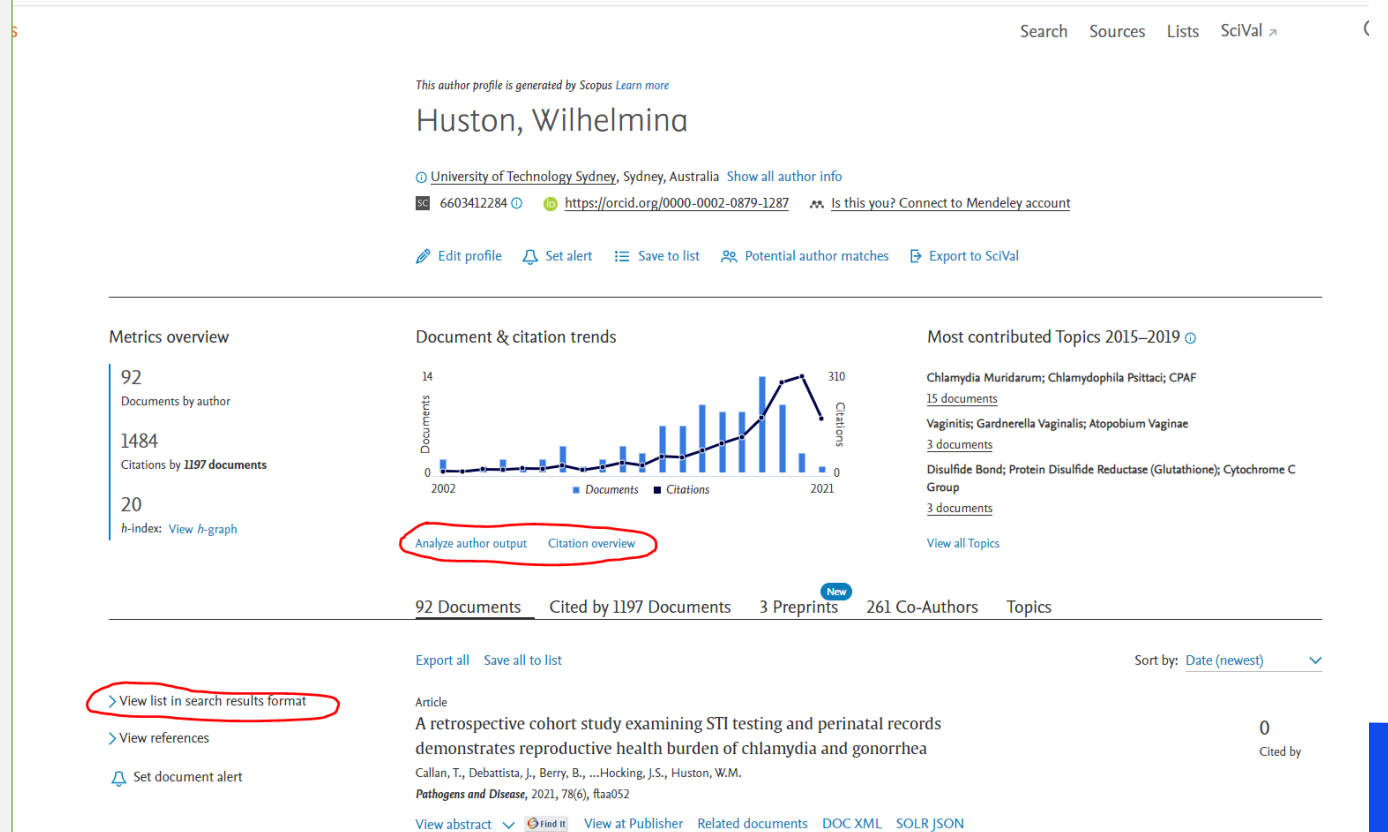
- Journals published in
- Co-authors

Click “Citation overview”

- Citation numbers with or without self-citations

Click “View list in search result format” for whole Publication list:

- Citations and FWCI of each paper
- Funding sponsors



More metrics in SciVal- Overview module

Search by author's name in
"Define a new researcher":

- FWCI of author
- h5-index
- Publication in top journal percentiles
- Publication and FWCI in topic areas
- Collaboration analysis
- Authorship analysis

Beware of year range when
search in Overview module!

Contact us if you need faculty
or school list in SciVal

The screenshot shows the SciVal Overview module for researcher Huston, Wilhelmina. The interface includes a top navigation bar with tabs: Overview, Benchmarking, Collaboration, Trends, Reporting, My SciVal, and Scopus. A left sidebar contains icons for various functions, with the 'Define a new Researcher' option highlighted by a red circle. The main content area displays the researcher's name, affiliation (University of Technology Sydney), and a list of metrics under the 'Summary' tab. The metrics are organized into three columns: Scholarly Output (75), Field-Weighted Citation Impact (1.06), and Citation Count (1,143). Below these, Citations per Publication (15.2), h-index (20), and h5-index (11) are shown. The interface also includes filters for year range (2010 to 2019) and subject areas (All subject areas).

Scholarly Output	Field-Weighted Citation Impact	Citation Count
75	1.06	1,143

Citations per Publication	h-index	h5-index
15.2	20	11

Check authorship in SciVal- Overview module

The screenshot shows the SciVal Overview module for authorship analysis. The interface includes a top navigation bar with tabs: Overview, Benchmarking, Collaboration, Trends, Reporting, My SciVal, and Scopus. A left sidebar contains a 'Researchers and Groups' list with 'Hansbro, Nicole G.' and 'Huston, Wilhelmina'. The main content area displays the profile for 'Huston, Wilhelmina' with a star icon and a 'Report from template' link. Below the profile, there are filters for '2010 to 2019', 'All subject areas', and 'FOR'. The 'Published' tab is selected, showing 'Publications by Authorship type'. A table displays the data for different authorship types, including 'First author', 'Last author', 'Corresponding author', and 'Co-author', with columns for 'Scholarly Output', 'Authorship type share (%)', 'Field-Weighted Citation Impact', and 'Outputs in Top 10% Citatio...'. The table also includes a 'Table' and 'Chart' toggle.

SciVal

Overview Benchmarking Collaboration Trends Reporting My SciVal Scopus

Hide tags

Researchers and Groups

- Hansbro, Nicole G.
- Huston, Wilhelmina

Huston, Wilhelmina ☆

University of Technology Sydney ... Show all affiliations | View in Scopus | Why do the metrics look different to those in Scopus?

2010 to 2019 All subject areas FOR

Data sources

Summary Topics Collaboration Published Viewed Cited Economic Impact

Overall by Authorship type by Journal quartile by Subject Area by Institution by Scopus Source

Publications by Authorship type

+ Add to Reporting Export


Learn about Authorship types

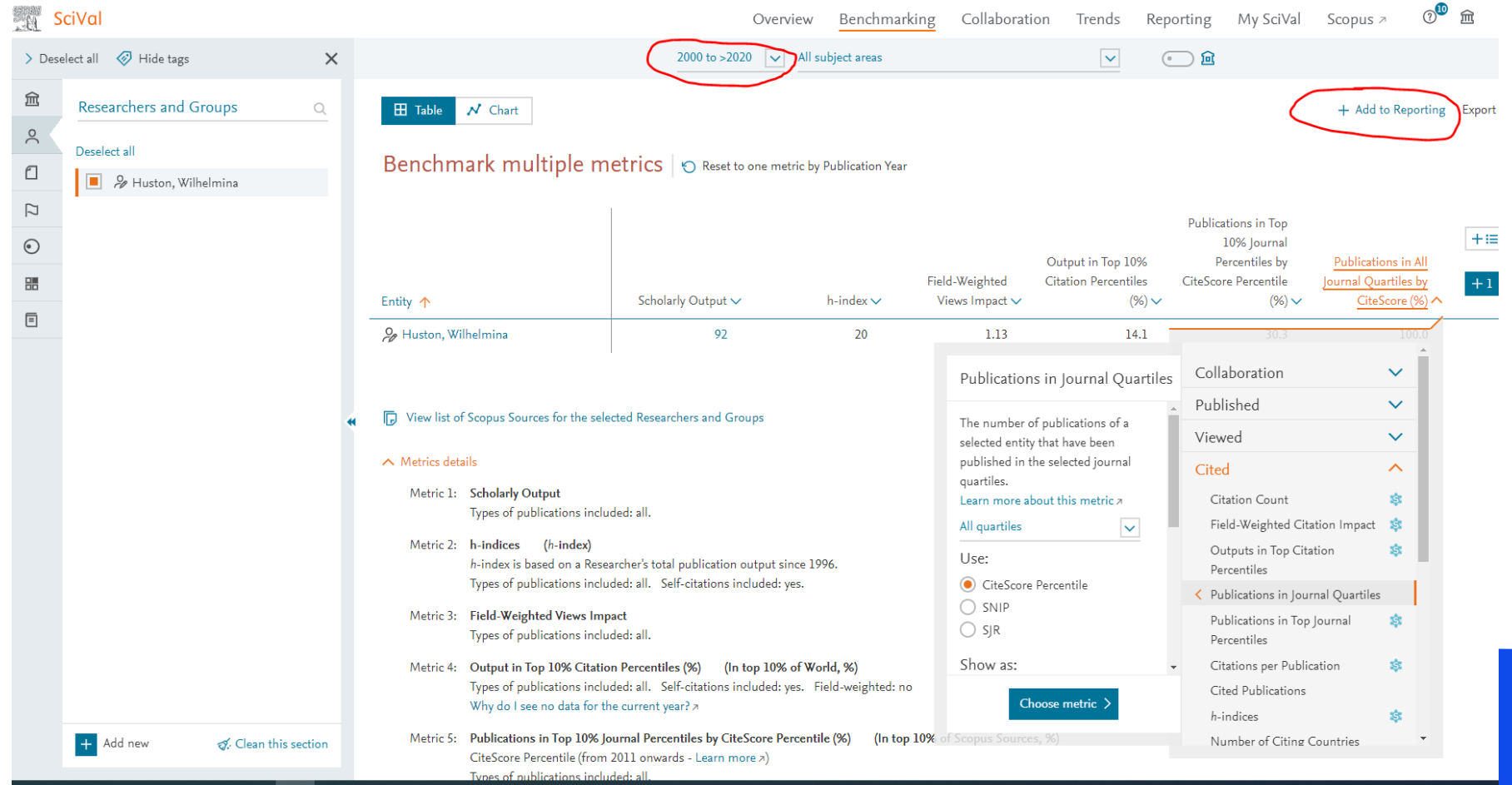
Table Chart

Authorship type	Scholarly Output	Authorship type share (%)	Field-Weighted Citation Impact	Outputs in Top 10% Citatio...
<input checked="" type="checkbox"/> First author	7	9.3	0.44	0
<input type="checkbox"/> Last author	27	36	0.87	3
<input checked="" type="checkbox"/> Corresponding author	30	40	0.83	3
<input type="checkbox"/> Co-author	39	52	1.34	8

+ Add new Clean this section

More metrics in SciVal- Benchmarking module

- Longer year range
- Click "Table" then  to add multiple metrics into one table
- Compare between individuals or groups



SciVal

Overview Benchmarking Collaboration Trends Reporting My SciVal Scopus

2000 to >2020 All subject areas

+ Add to Reporting Export

Table Chart

Benchmark multiple metrics Reset to one metric by Publication Year

Entity	Scholarly Output	h-index	Field-Weighted Views Impact	Output in Top 10% Citation Percentiles (%)	Publications in Top 10% Journal Percentiles by CiteScore Percentile (%)	Publications in All Journal Quartiles by CiteScore (%)
Huston, Wilhelmina	92	20	1.13	14.1	50.3	100.0

View list of Scopus Sources for the selected Researchers and Groups

Metrics details

Metric 1: Scholarly Output
Types of publications included: all.

Metric 2: h-indices (h-index)
h-index is based on a Researcher's total publication output since 1996.
Types of publications included: all. Self-citations included: yes.

Metric 3: Field-Weighted Views Impact
Types of publications included: all.

Metric 4: Output in Top 10% Citation Percentiles (%) (In top 10% of World, %)
Types of publications included: all. Self-citations included: yes. Field-weighted: no
Why do I see no data for the current year?

Metric 5: Publications in Top 10% Journal Percentiles by CiteScore Percentile (%) (In top 10% of Scopus Sources, %)
CiteScore Percentile (from 2011 onwards - Learn more)
Types of publications included: all.

Publications in Journal Quartiles

The number of publications of a selected entity that have been published in the selected journal quartiles.

Learn more about this metric

All quartiles

Use:

☒ CiteScore Percentile

☐ SNIP

☐ SJR

Show as:

Choose metric

Collaboration

Published

Viewed

Cited

Citation Count

Field-Weighted Citation Impact

Outputs in Top Citation Percentiles

Publications in Journal Quartiles

Publications in Top Journal Percentiles

Citations per Publication

Cited Publications

h-indices

Number of Citing Countries

Find your metrics in Web of Science

It's important to check your author records before finding your metrics!

1. In WOS Author Search, type in surname and initials
2. Refine search results by selecting affiliations
3. If your publications are split into multiple author records, check publication list of the additional records, login WOS/Publons to claim these records

Results: 3 author records 1 BETA
(from Web of Science Core Collection)

huston,w

Refine results Reset

Sorted by Relevance 1 of 1

☐ Select all Select records that contain documents by the same author View Combined Record

☐ 1. **Huston, Wilhelmina M.** Web of Science ResearcherID: S-7269-2019 more...

Alternative names: Huston, Wilhelmina M. Huston, W. M. more...
University of Technology Sydney
Sch Life Sci
SYDNEY, NSW, AUSTRALIA

Documents	Years	Top Journals
85	2002 - 2019	SEXUALLY TRANSMITTED INFECTIONS , PLOS ONE

Recent publications ▼

☐ 2. **Huston, Wilhelmina M.**

Alternative name: Huston, Wilhelmina
University of Technology Sydney
Fac Sci
SYDNEY, NSW, AUSTRALIA

Documents	Years	Top Journals
15	2019 - 2020	SEXUALLY TRANSMITTED INFECTIONS , FRONTIERS IN CELLULAR AND INFECTION

Recent publications ▼

☐ 3. **Huston, Willa**

Alternative name:
University of Technology Sydney
Sch Life Sci
SYDNEY, NSW, AUSTRALIA

Documents	Years	Top Journals
1	2019	SEXUALLY TRANSMITTED INFECTIONS

Recent publications ▼

Huston, Wilhelmina M. CLAIM THIS RECORD BETA

Unclaimed - This is an algorithmically generated author record 1

University of Technology Sydney
Fac Sci
SYDNEY, NSW, AUSTRALIA

Alternative names: Huston, Wilhelmina M. Huston, Wilhelmina

Organization: 1
2019-2020 University of Technology Sydney

15 publications from Web of Science Core Collection View as a set of results to export, analyze, and link to full text

Sorted by Date: newest first Filter By: All Publications 1 of 1

Chromatin accessibility dynamics of Chlamydia-infected epithelial cells
Hayward, Regan J. ; Marsh, James W. ; Humphrys, Michael S. ... More
EPIGENETICS & CHROMATIN
Volume 13 Issue 1 Published 2020

TIMES CITED
0

Find your metrics in Web of Science

In Author profile page:

- Total number of publications
- Total number of citations
- h-index
- Author positions

Click “View as a set of results to export, analyze, and link to full text”
Highly cited papers

- Journals published in
- Co-authors

Click “View full citation report”

- Citation numbers with or without self-citations

Click the member of “Citing articles”

- Researchers who cited your article
- Metrics of each citing article

Web of Science InCites Journal Citation Reports Essential Science Indicators EndNote Publons Kopernio Master Journal List Sign In Help English

Web of Science

Search Tools Searches and alerts Search History Marked List

Huston, Wilhelmina M. Claimed by the author BETA

University of Technology Sydney
Fac Sci
SYDNEY, NSW, AUSTRALIA

Web of Science ResearcherID: S-7269-2019

Alternative names: Huston, Wilhelmina M. Huston, Wilhelmina Huston, W. M. Huston, WM Huston, W.

Organizations:

- 2015-2020 University of Technology Sydney
- 2013-2018 Wesley Hospital
- 2007-2018 Queensland University of Technology (QUT)
- 2010-2010 Queensland Clin Chlamydia Res Network
- 2008-2008 University of Queensland

[View more organizations +](#)

103 publications from Web of Science Core Collection [View as a set of results to export, analyze, and link to full text](#)

Sorted by Date: newest first Filter By: All Publications 1 of 3

Chromatin accessibility dynamics of Chlamydia-infected epithelial cells
Hayward, Regan J.; Marsh, James W.; Humphrys, Michael S. ...More
EPIGENETICS & CHROMATIN
Volume 13 Issue 1 Published 2020
TIMES CITED 0

A retrospective cohort study examining STI testing and perinatal records demonstrates reproductive health burden of chlamydia and gonorrhea
Callan, Torrington; Debattista, Joseph; Berry, Brooke ...More
PATHOGENS AND DISEASE
Volume 78 Issue 6 Published 2020
TIMES CITED 1

Editorial: Interplay of Infection and Microbiome
Huston, Wilhelmina M.; Tachedjian, Gilda
FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY
Volume 10 Published 2020
TIMES CITED 0

View Full Profile on Publons

Verify Your Author Record

Get your own verified author record by clicking "Claim This Record" on your author record page. Search for your author record.

Citation Network

H-index
19

Sum of Times Cited
1,383

Citing Articles
1,123

[View full Citation Report](#)

Author Position

First 18%
Last 28%
Corresponding 37%

Use metrics to track Societal Impact


Tools to use:

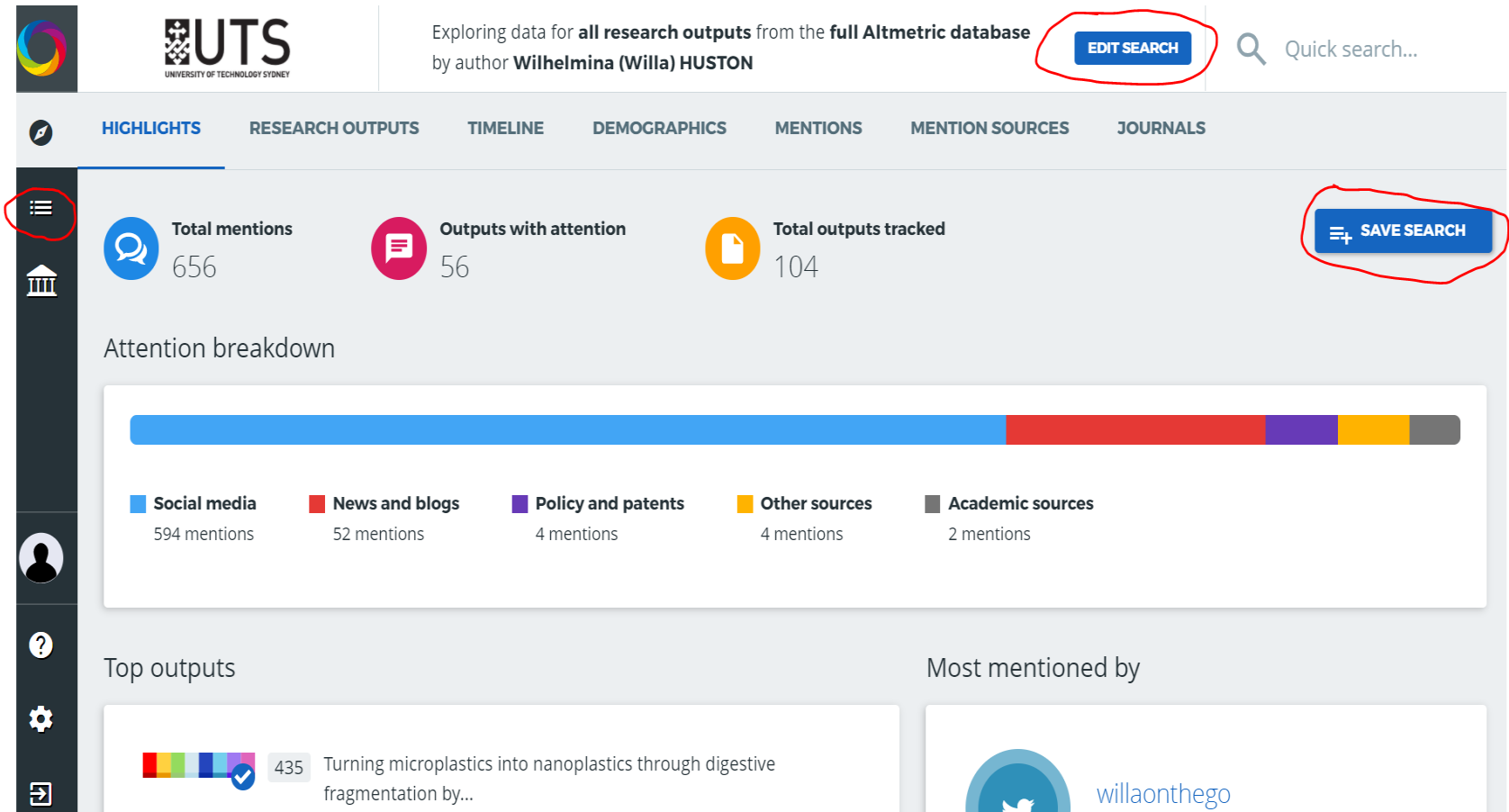
- Altmetrics for Institutions
- Dimensions
- Scopus PlumX
- Google

Metrics/Indicators:

- References in public policies
- Mentions in news reports
- Mentions in social media
- Mentions in blogs
- References in Wikipedia
- More

Find media and policy mentions in [Altmetric for Institutions](#)

- Click “Edit Search” for more search filters
- Click “Save Search” then  to create alerts and reports



Use metrics to track Economic Impact

Tools to use:

- Dimensions
- Lens.org
- Altmetrics for Institutions
- Scopus
- Web of Science

Metrics/Indicators:

- Citations and mentions in Patents
- Government and industry funding

Find patent citations in Lens.org*

The screenshot displays the Lens.org interface for searching patent citations. The top navigation bar includes links for English, About, Our Apps, Guest Work Area, Register, Sign in, and Support. The main header shows '5 Scholarly Works' and a search bar with 'Refine your search' and a search button. The left sidebar contains a 'FILTERS' section with various criteria like Date Range, Flags, Author, Institution, etc. The main content area is titled 'Scholar Results' and shows 'Scholarly Works (5) = All Docs'. A filter is applied: 'Author Display Name = (Wilhelmina May Huston, Wilhelmina M Huston) Cited By Patents'. Below this is a table with columns: Works in Set (5), Works Cited by Patents (5), Citing Patents (8), Patent Citations (8), Works Cited by Scholarly (5), and Scholarly Citations (204). The table has tabs for 'Scholarly Works' and 'Citing Patents'. Below the table, there are two search results. The first result is 'The temperature activated HtrA protease from pathogen Chlamydia trachomatis acts as both a chaperone and protease at 37 °C' by Wilhelmina M Huston et al., published in FEBS letters. The second result is 'The multicopper oxidase of Pseudomonas aeruginosa is a ferroxidase with a central role in iron acquisition.' by Wilhelmina M Huston et al., published in Molecular microbiology. To the right of the results is a section titled 'Institution Name' showing logos and counts for Queensland University of Technology (3), University of Queensland (3), Critical Care Department (1), Menzies School of Health Research (1), and Northwestern University (1).

English About Our Apps Guest Work Area Register / Sign in Support

5 Scholarly Works

Refine your search Search

Hide Query Details Edit Search Search Patents

Scholar Results

Scholarly Works (5) = All Docs

Filters: Author Display Name = (Wilhelmina May Huston, Wilhelmina M Huston) Cited By Patents

Works in Set	Works Cited by Patents	Citing Patents	Patent Citations	Works Cited by Scholarly	Scholarly Citations
5	5	8	8	5	204

Scholarly Works Citing Patents

Table List Analysis

Expand Save as Query Share Export Cited by Patents Hide Analysis Sort by Relevance

☐ The temperature activated HtrA protease from pathogen Chlamydia trachomatis acts as both a chaperone and protease at 37 °C

Wilhelmina M Huston, Joaquin E Swedberg, Jonathan M Harris, Terence Patrick Walsh, Sarah A Mathews, Peter Timms

FEBS letters, Issue: 18, Volume: 581, Pages: 3382-3386. Jun 26, 2007

Additional Info: Open Access Patents Substance Affiliation Field of Study

3 Citing Patents 41 Citing Scholarly Works Reference Count: 31

Journal Article 053-775-950-282-846 10.1016/j.febslet.2007.06.039 17604025 2035146963 10881624 95112217

Find full-text at your institution

☐ The multicopper oxidase of Pseudomonas aeruginosa is a ferroxidase with a central role in iron acquisition.

Wilhelmina M Huston, Michael P Jennings, Alastair G McEwan

Molecular microbiology, Issue: 6, Volume: 45, Pages: 1741-1750. Sep 27, 2002



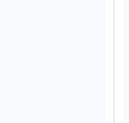


Additional Info: Open Access Patents Substance Affiliation Field of Study

2 Citing Patents 90 Citing Scholarly Works Reference Count: 44

Journal Article 121-722-655-420-076 10.1046/j.1365-2958.2002.03132.x 12354238 1571228333 14999425 10877777


Find full-text at your institution

Institution Name

 Queensland Univer... 3	 University of Quee... 3	 Critical Care Depar... 1	 Menzies School of ... 1
 Northwestern Univ... 1			

*The publication resources in Lens.org is not always accurate, please double check each of your publications listed in this website.

More research output types in Dimensions



Wilhelmina May Huston

Researcher

X

Save / Export

FILTERS

FAVORITES

PUBLICATION YEAR

RESEARCHER

WILHELMINA MAY HUSTON

JUDITH WILSON

CAMERON BUCKLEY

DAVID MARK WHILEY

PATIAN ANDERSSON

DEBORAH C HOLT

RACHAEL A LILLIEBRIDGE

PHILIP MORRISON GIFFARD

KERRY-ANN F O'GRADY

STEPHEN BERNARD LAMBERT

TEGAN MAREE HARRIS

MORE

FUNDER


RESEARCH ORGANIZATION

COUNTRY/TERRITORY

RESEARCH CATEGORIES

SOURCE TITLE

REPOSITORY



Wilhelmina May Huston

University of Technology Sydney - Sydney, Australia

View Profile

Overview

Experience & Education

Publications

Datasets

Grants

Patents

Clinical Trials

98

20

6

3

0

Citations

1,543

The information on this profile has been aggregated algorithmically from several different sources (including publication and public ORCID data).

PUBLICATIONS

DATASETS

GRANTS

PATENTS

CLINICAL TRIALS

POLICY DOCUMENTS

98

20

6

3

0

selected filter not applicable

☒ Show abstract

Sort by: Relevance

Title, Author(s), Year, Repository

Additional file 1 of Chromatin accessibility dynamics of Chlamydia-infected epithelial cells

Regan J. Hayward, James W. Marsh, Michael S. Humphrys, Wilhelmina M. Huston, Garry S. A. Myers

2020 - Springer Nature

Additional file 1. Summary of mapped reads by time and condition. Table summarising the number of mapped reads for each time and infection condition.

Additional file 3 of Chromatin accessibility dynamics of Chlamydia-infected epithelial cells

Regan J. Hayward, James W. Marsh, Michael S. Humphrys, Wilhelmina M. Huston, Garry S. A. Myers

2020 - Springer Nature

Additional file 3. Annotation of all significant peaks. Annotation of all the significant peaks, with tabs separating genomic features and fold-change regulation.

If you would like to publish datasets, please contact data-librarian@uts.edu.au

Tips to improve your research impact based on metrics

- Supply ORCID ID when you publish
- Maintain your author profiles regularly
- Try to publish in Open Access or provide copyright cleared versions of your publications to OA repositories
- Contribute to online forums or discussions with summaries for those who are not specialists
- Develop and make available summaries of your research and data including infographics, images, and files
- Provide author opinion and editorial content for mainstream press
- Always include DOIs when you discuss your publications in digital platforms



Library

Write Research Output Performance Evidence (ROPE) for grant applications

- Tips of writing ROPE on [library website](#)
- Reference [examples of successful grant applications](#)
- [Guideline of exporting publication list from ORCID to ARC RMS](#)



Library

Support

- [Planning and Quality Unit](#): university metrics and rankings
- [Research Office](#): UTS research output management systems, funding applications, IP and commercialization
- [Library](#): workshops and consultations for individual research and group benchmarking metrics



Library

Additional Resources

- University of Queensland: [Research impact evidence](#)
- University of Melbourne: [Research Impact for Fine Arts and Music](#)



Library

Thank you!
Questions?



Library