

Impact & Visibility



Content

Visibility

- 1 Author identifiers
- 2 Promote and share output

Impact







- 3 Author metrics
- 4 Journal metrics
- 5 Article metrics
- 5 Conclusion

Icon Key

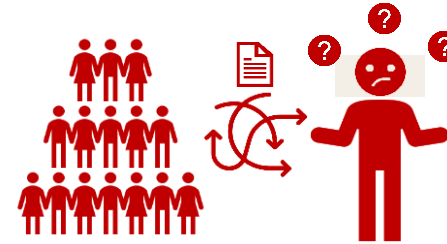
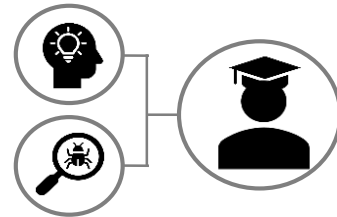
Topics

- visibility 
- impact 

Links

- primary resource 
- registration page 
- tool / software 
- help page 
- tutorial / video 
- further reading 

Visibility



- Amount of scholarly literature is growing exponentially
- You need to distinguish yourself and your work from other authors
- Issue with name as identifier
- Make yourself and your work visible and accessible with author identifiers!

1 Author identifiers

General advice

- Use the same variation of your name consistently
- Use the same variation of your institution consistently

Eawag: Swiss Federal Institute of Aquatic Science and Technology

Empa. Swiss Federal Laboratories for Materials Science and Technology

Swiss Federal Institute for Forest, Snow and Landscape Research (WSL)

Paul Scherrer Institut (PSI)

- **Build your profile!**

1 ORCID (Open Research and Contributor ID)

- Unique, persistent digital identifier
- Free of charge for researchers
- Not-for-profit organization
- Community-built, open source
- More and more the most commonly asked for author ID (by funders, institutions, publishers, journals etc.)
- Link your other author IDs to it and configure your profile

▶ [What is ORCID?](#)

🔍 [ORCID Help](#)



1 Google Scholar ID

- Free of charge
- Make yourself more findable on Google
- Automatically searches for your papers with metadata; papers can be manually added
- Track citations to your works, set up email alerts
- Calculate numerous citation metrics
- Import it to your ORCID



[Google Scholar Registration](#)



[How do I create my author profile](#)

Copyright protected material



1 ResearcherID

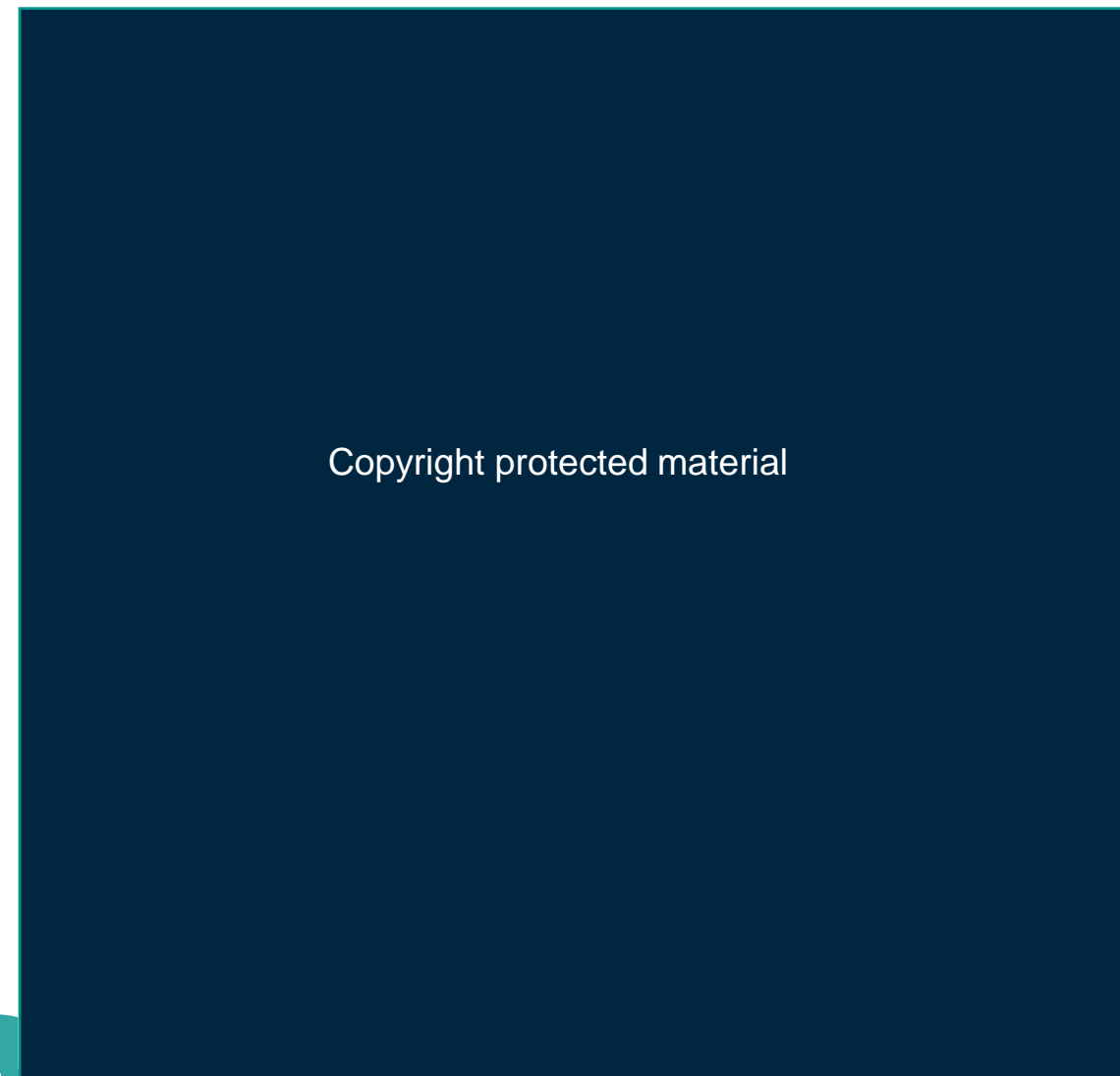
- Unique identifier for publications within the Web of Science ecosystem (WoS, Publons, InCites, etc.)
- Free of charge
- Integrated with Clarivate Analytics
- Add publications that are not in WoS
- Link it to and sync it with your ORCID



[ResearcherID Registration](#)



[Clarivate Analytics guides:
Build your profile](#)



1 Scopus ID

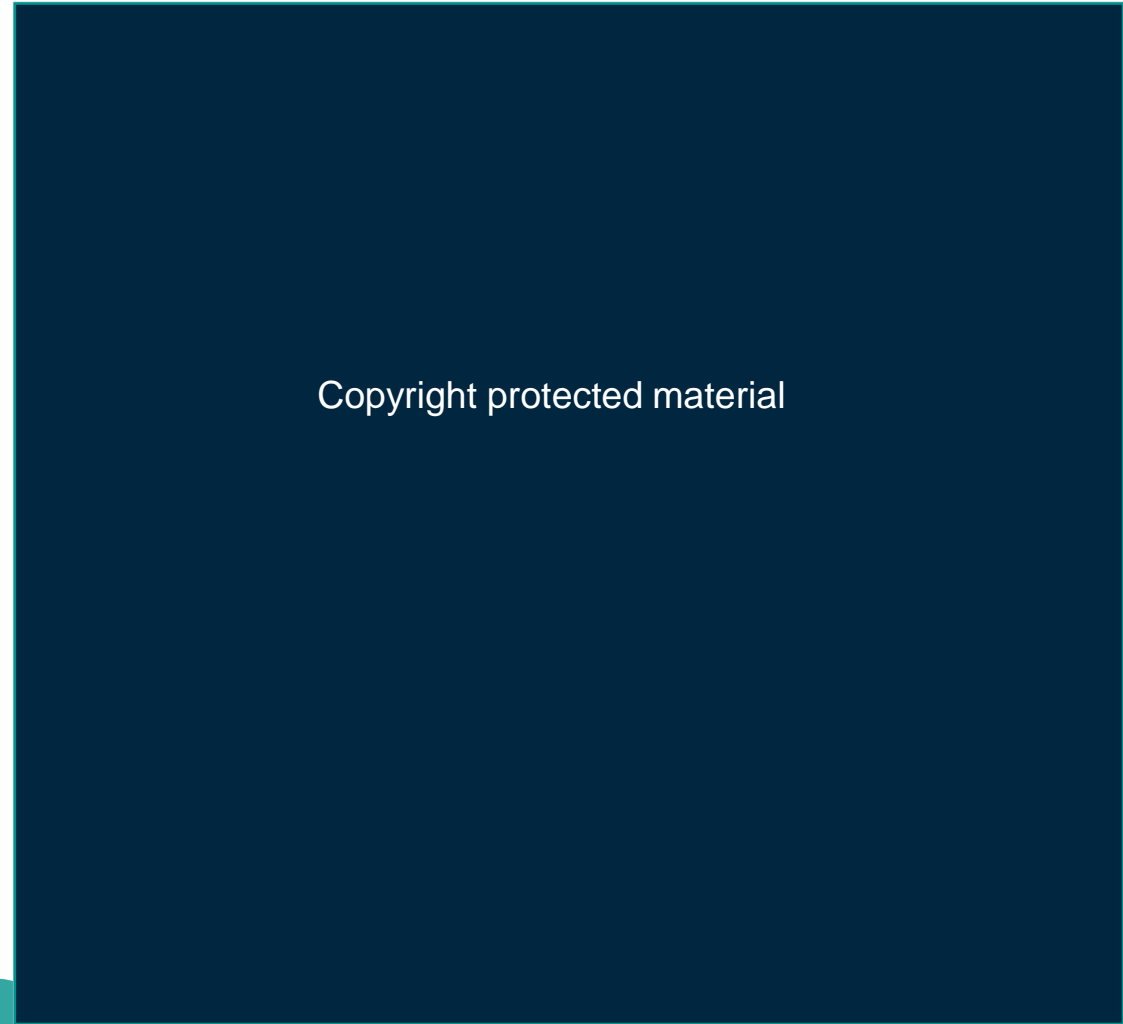
- Automatically generated by Scopus
- Cannot be edited by yourself → via Scopus Feedback Wizard
- Link it to and sync it with your ORCID



[Scopus Feedback Wizard](#)



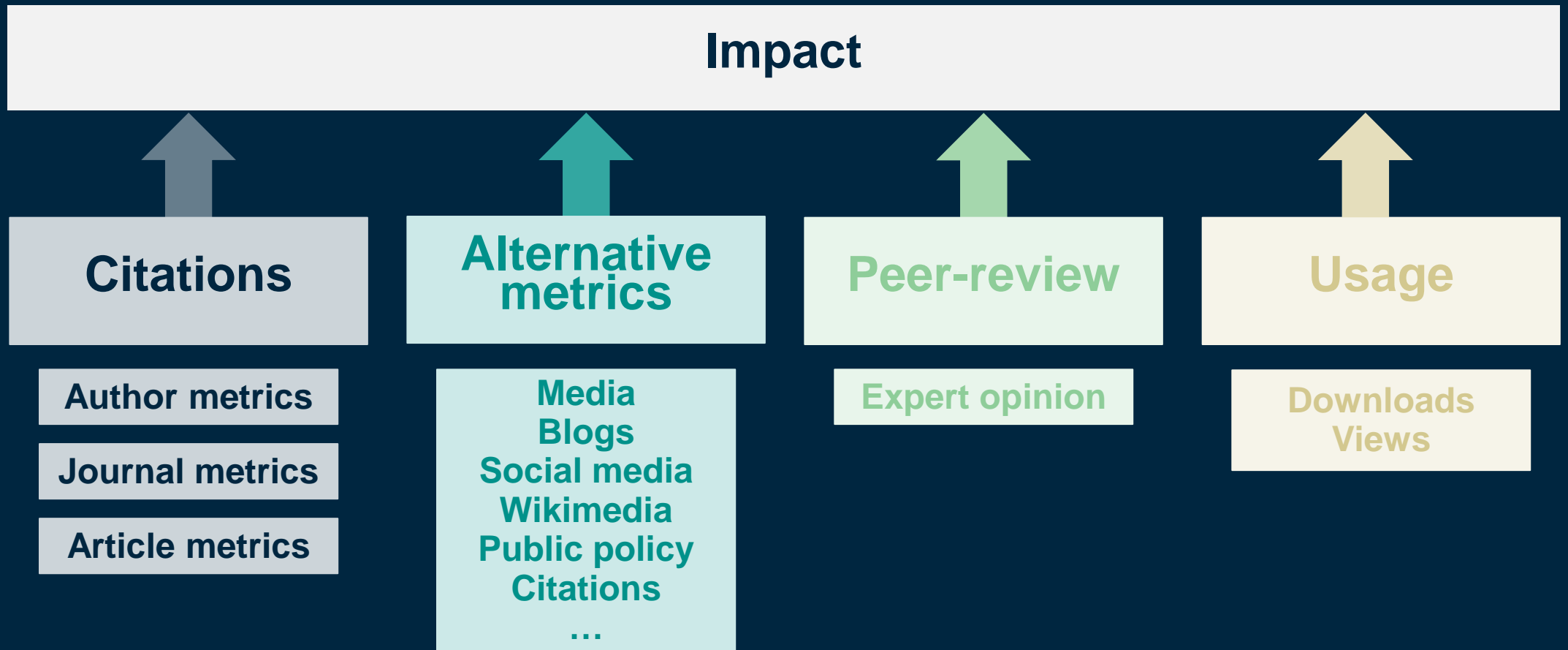
[Scopus Support Center](#)



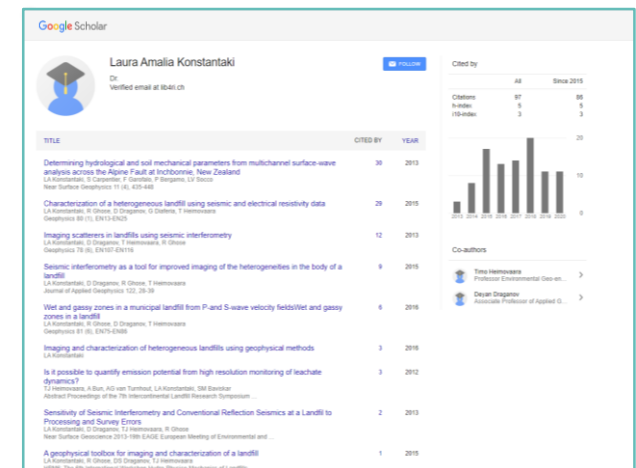
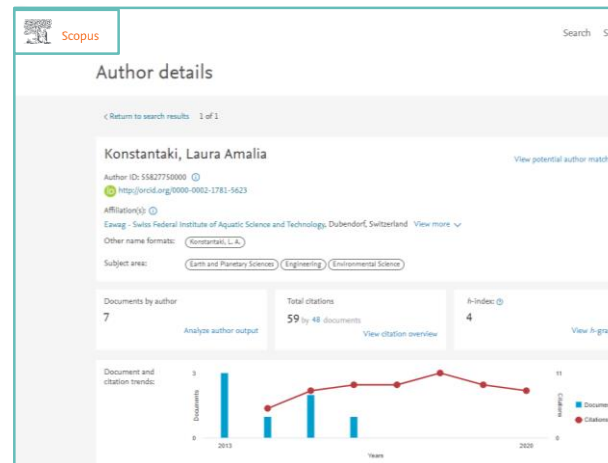
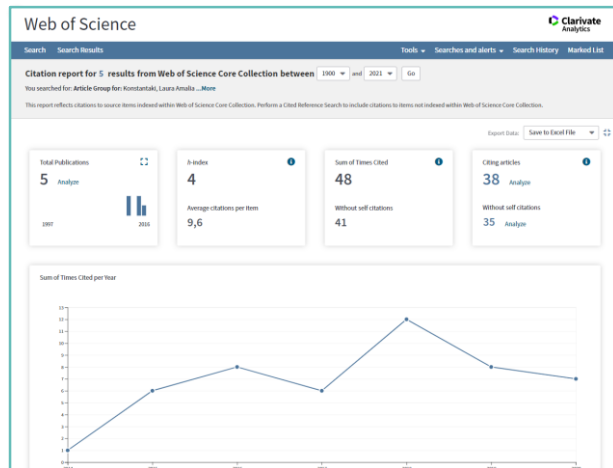
2 Promote and share output

- Use social media and networks, e.g. ResearchGate, Academia.edu, LinkedIn, Mendeley or Mastodon
- Present findings at conferences
- Attend events for networking & developing collaborations
- Share posters, presentations, preprints, data, etc. on respective repositories
- Curate your data and consider what you will share
- [Get a DOI](#) for your publication

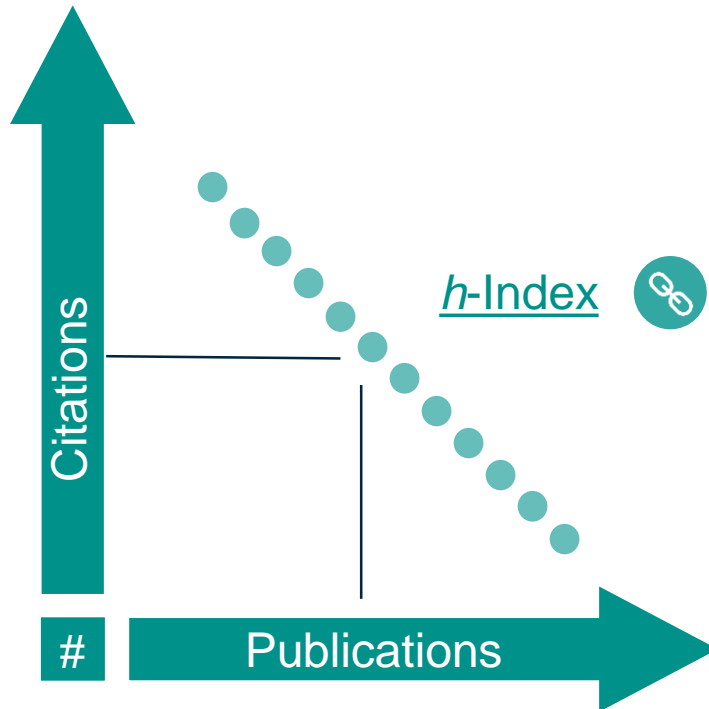
Impact



3 Author metrics: citation reports



3 Author metrics: h-Index



H-Index calculations

Rank	Paper	# citations
1	Paper A	33
2	Paper B	30
3	Paper C	20
4	Paper D	15
5	Paper E	7
6	Paper F	5
7	Paper G	5
8	Paper H	4




H-Index = 5

Rank	Paper	# citations
1	Paper A	155
2	Paper B	30
3	Paper C	22
4	Paper D	2
5	Paper E	1







H-Index = 3

4 Journal metrics

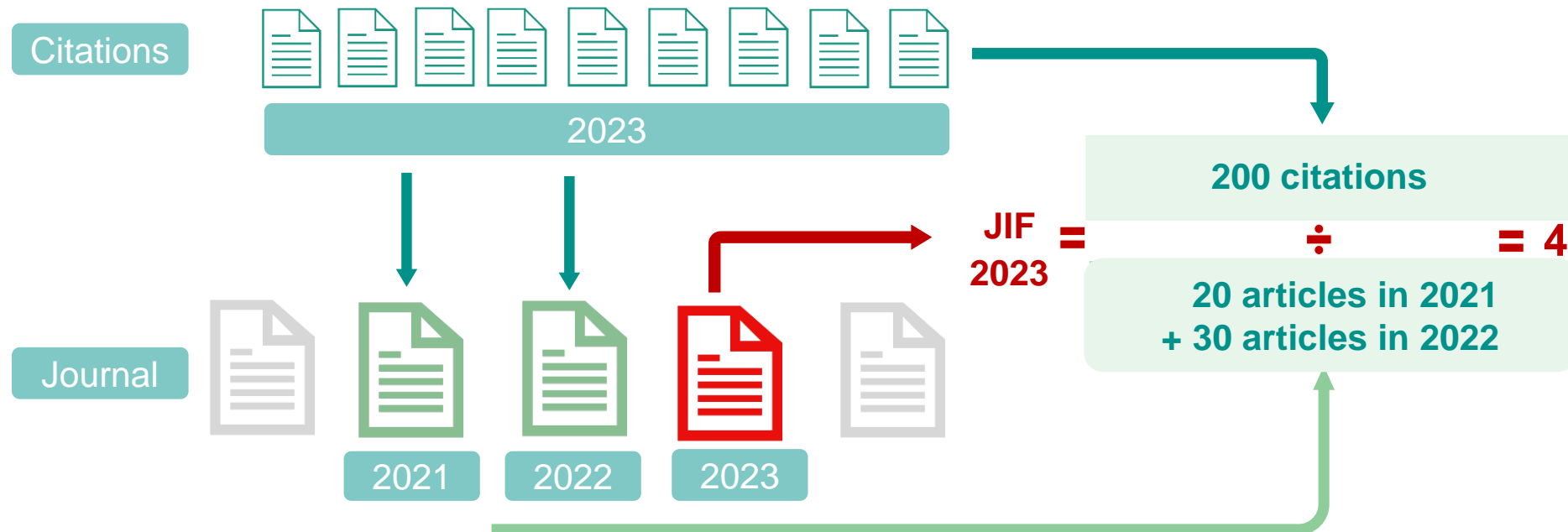
Sources

- o [Journal Citation Reports \(Clarivate\)](#) 
- o [CiteScore \(Scopus\)](#) 
- o [Google Scholar Metrics](#) 

Different metrics

- o [Eigenfactor](#) 
- o [Immediacy Index](#) 
- o [Article Influence Score](#) 
- o [Source Normalized Impact per Paper \(SNIP\)](#) 
- o [SCImago Journal Rank \(SJR\)](#) 
- o [Impact Factor](#) 

4 Journal metrics: Journal Impact Factor



5 Article metrics: Altmetrics



- Measure research impact in other contexts
- E.g. social media, government policy, news outlets, blogs, Wikipedia, etc.
- Track online activity and attention
- Used complementary to traditional metrics
- Looking at societal, outreach or economic impact

▶ [A beginner's guide to altmetrics](#)

5 Article metrics – Altmetrics

DORA Empa
Digital Object Repository at Empa

Search

Sustainable cellulose nanofiber films from carrot pomace as sprayable coatings for food packaging applications

Amoroso L, De France KJ, Milz CI, Siqueira G, Zimmermann T & Nyström G

Citation
APA Amoroso, L., De France, K. J., Milz, C. I., Siqueira, G., Zimmermann, T., & Nyström, G. (2022). Sustainable cellulose nanofiber films from carrot pomace as sprayable coatings for food packaging applications. *ACS Sustainable Chemistry and Engineering*, 10(1), 342-352. <https://doi.org/10.1021/acssuschemeng.1c06345>

Persistent URL
<https://www.dora.lib4ri.ch/empa/islandora/object/empa:28102>

In order to limit the excessive use of nonrenewable plastics as materials for food packaging, research into the development of more environmentally friendly packaging materials and practices has grown rapidly over the past few decades. Although cellulose nanofibers (CNF) have emerged as a promising material for such purposes, typically commercial producers utilize already valorized lignocellulosic sources such as wood pulp for CNF production. This can have significant cost implications, and therefore the use of alternative lignocellulosic sources, such as wastes from agricultural processing, is of high interest. Herein, we investigate the use of carrot pomace from both fresh and stale carrots, sourced as agricultural waste (unsellable for retail) from a local Swiss vegetable producer to produce CNF. The use of a one-pot bleaching pretreatment and the energy required for homogenization of the carrot pomace along with the resulting CNF fiber morphology and quality (surface area, degree of polymerization, carbohydrate content) are analyzed. In addition, model films are prepared via vacuum filtration and hot-pressing, whereby film quality, as related to morphological, optical, mechanical, and barrier properties, is assessed. Finally, carrot CNF suspensions are sprayed onto the surface of bananas, demonstrating a substantial delay in enzymatic browning for up to 1 week. The results presented herein represent a significant advancement in the development of sustainable materials for food packaging.

[Details](#)

Publication Type
Journal Article

Title
Sustainable cellulose nanofiber films from carrot pomace as sprayable coatings for food packaging applications

Author(s)
Amoroso, Luana (302 Cellulose & Wood Materials)
De France, Kevin J. (302 Cellulose & Wood Materials)
Milz, Corina I.
Siqueira, Gilberto (302 Cellulose & Wood Materials)
Zimmermann, Tanja (700 Functional Materials)
Nyström, Gustav (302 Cellulose & Wood Materials)

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sustainable food packaging
spray coating
agricultural waste processing

Fulltext:

- Published Version
- Intranet Only
- Accepted Version
- Open Access

Links:

- View at Publisher (DOI)
- View at Web of Science
- View at Scopus

Citation Counts:

- Web of Science: 28
- Scopus: 29
- Crossref: 32

Statistics:

- Views: 536
- Downloads: 394

Altmetrics:

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2. Visit any paper
3. Get article level metrics with a single click

Bookmarklet



6 Conclusion – take home messages

Visibility



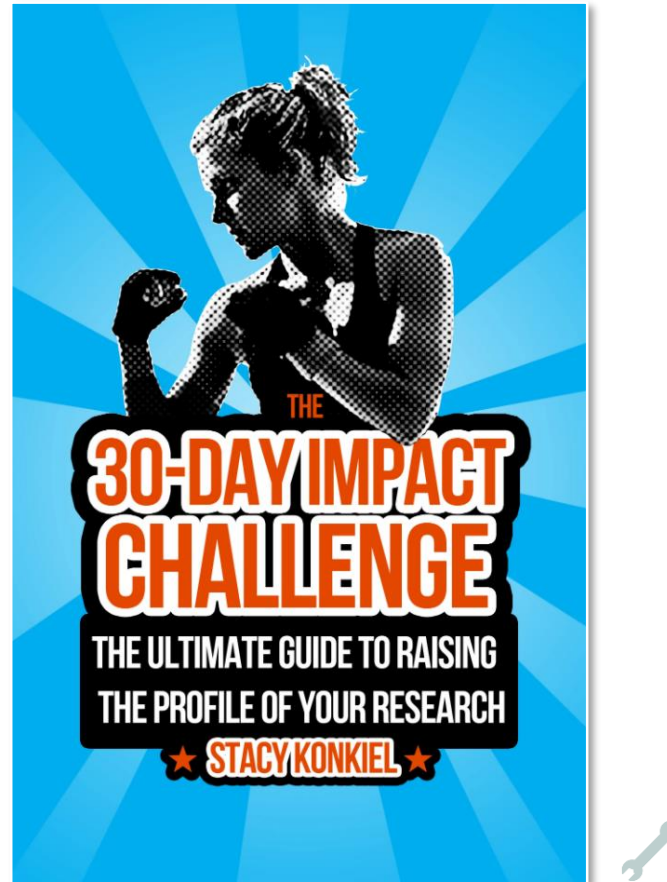
- ORCID, Google Scholar ID, ResearcherID, and Scopus ID are the most common **author IDs**.
- Build your **online profile!**
- **ORCID** enables connections between other IDs, institutions, repositories, publishers, funders, etc. – get one!
- Promote and share your research output in person (conferences, events) and online (repositories, social media, networks)

Impact



- Traditionally, impact is measured by citations but there is more to it.
- **Different levels of research metrics:** author level, journal level, article level
- Web of Science, Scopus, and Google Scholar are the **most common sources for metrics**.
- Many **different metrics exist** – all have their **strengths and weaknesses**. Use them wisely!
- **Altmetrics** measures impact in other contexts

8 Conclusion – challenge



Thank you for your attention! Any questions?

Check out our [Info Sheet: Scientific Writing!](#)



Contact

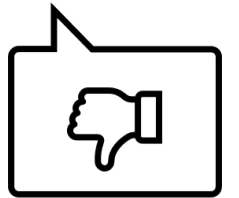


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