

Altmetrics

Follow your research output in social media
and news

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Coffee Lecture, 23rd November 2021



Altmetric

Measurement of research output

Citation analysis vs. altmetrics

Citation analysis

Traditional way of measuring the influence of a published article:

“How many times is a research article cited in scientific literature?”

Citation analysis = capture *academic* attention and relevance



Altmetrics (alternative metrics)

Alternative ways of tracking the attention of scientific work :

“How many times is a research article mentioned, used, saved and shared in online sources?”

Altmetrics = capture *broad* attention and relevance



Who proposes altmetrics?

Different providers

Currently different altmetrics providers

- [PLOS ALM](#) (since 2009)
- [Altmetric.com](#) (since 2011)
- [ImpactStory](#)
- [Plum Analytics](#)
- [Kudos](#)
- [CrossRef Event Data](#)
- ...

Altmetric.com

Summarizes the discussion of research in

- Blogs
- Social media (e.g. Twitter, Facebook, LinkedIn)
- Reference managers (e.g. Mendeley)
- Video services (e.g. YouTube, Vimeo)
- Other online platforms (e.g. Wikipedia, GitHub)
- News
- Policy documents
- Post-publication peer review platforms (e.g. PubPeer)
- And more

All sources of attention for Altmetric are listed here:

<https://www.altmetric.com/about-our-data/our-sources/>

Interpretation

What is the Altmetric donut telling you?

Colors

Visualize which sources are discussing the research contribution.

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

Altmetric attention score

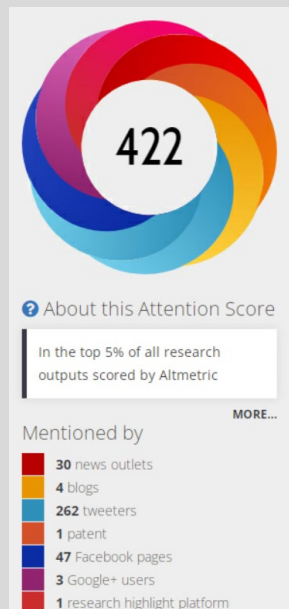
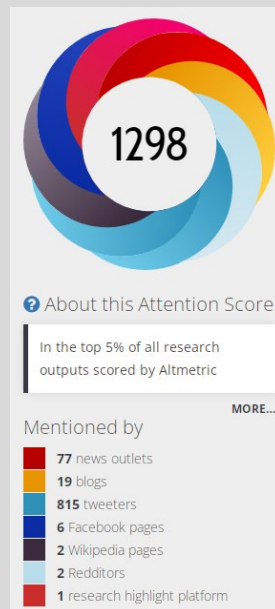
Weighted approximation of all the attention that was picked up for a research output.

17 categories



Interpretation

Examples for different Altmetric donuts



This output has received a lot of mainstream media coverage (click on the donut to see which outlets it came from)



This research has received most of its attention from blogs, and has been referenced in public policy documents.



This research has received a lot of attention on twitter, and also been reviewed on a post-publication peer-review forum.

Interpretation

What's behind the colors and score?

The calculation is based on 3 factors

Volume:

How many times the contribution was mentioned by different people

Authors:

Conversation among authors about scholarly articles has a greater contribution than, e.g., automatic communications from journals.

Sources:

Each source category contributes a different base amount to the final score (newspaper article counts more than blog post counts more than a tweet)

Use of Altmetric

What are the advantages for you as scientist?

- ✓ Works at article, author and institutional level.
- ✓ Shows the early impact of research immediately.
- ✓ Allows a broader view of the dissemination of your own research.
- ✓ Helps you get credit for impact activities (increase citations).
- ✓ Useful in grant applications, funder reporting and CVs.
- ✓ Helps you find potential research partners or stakeholders by looking at who writes about your research.

Use of Altmetric

How can you actively promote your research?



→ use DOIs



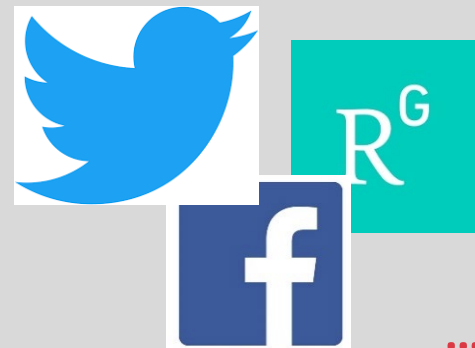
→ publish OA



→ Use and
update your
ORCID



→ report missed
mentions [here](#)



→ get the online
discussion started

Use of Altmetric

Article level metrics

Get the bookmarklet plugin
for Chrome, Firefox and Safari

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

1. Add bookmarklet to your bookmarks toolbar
2. Visit any paper
3. Get article level metrics with a single click



Example 1

Use plugin to easily show article metrics

Taylor & Francis Online  Access provided by Universitätsbibliothek Bern

Home ▶ All Journals ▶ Journal of Sustainable Tourism ▶ List of Issues ▶ Volume 29, Issue 1 ▶ Pandemics, tourism and global change: a

Journal of Sustainable Tourism
Volume 29, 2021 - Issue 1

Submit an article Journal homepage

288,635 Views
735 CrossRef citations to date
120 Altmetric

 Listen 

Articles

Pandemics, tourism and global change: a rapid assessment of COVID-19

Stefan Gössling , Daniel Scott  & C. Michael Hall 

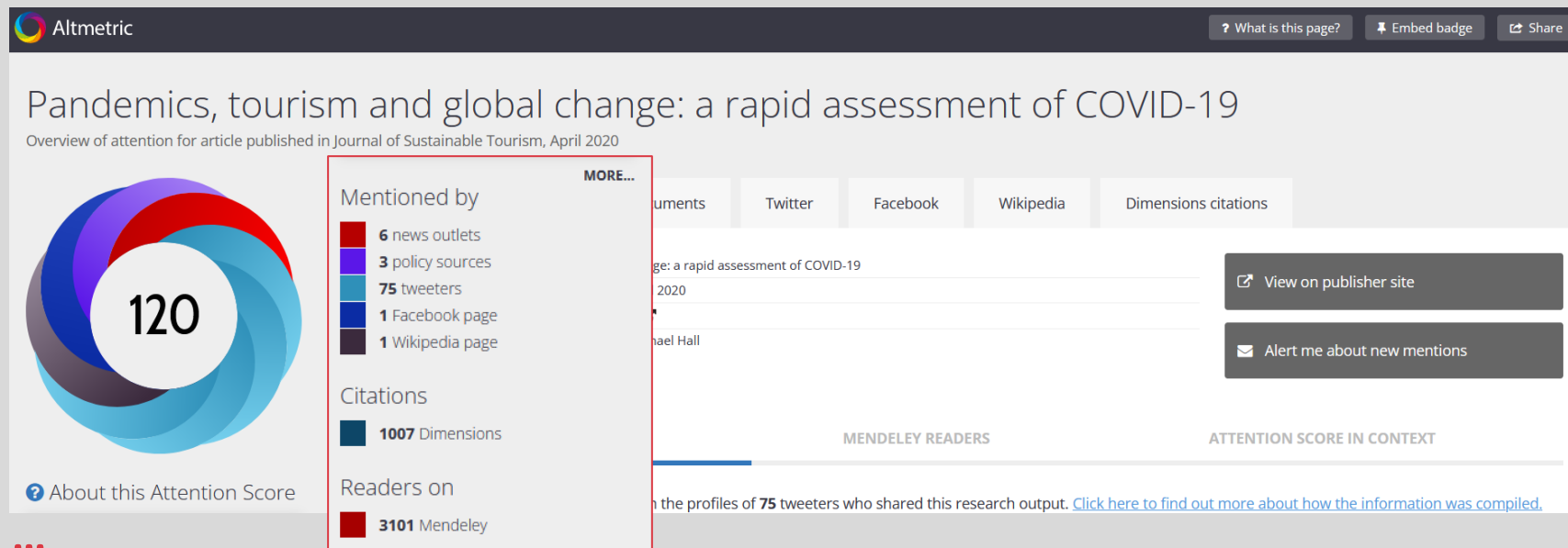
Pages 1-20 | Received 06 Apr 2020, Accepted 17 Apr 2020, Published online: 27 Apr 2020

 Download citation  <https://doi.org/10.1080/09669582.2020.1758708> 


120
Picked up by 6 news outlets
Referenced in 3 policy sources
Tweeted by 75
On 1 Facebook pages
Referenced in 1 Wikipedia pages
[Click for more details](#)

Example 1

Use plugin to easily show article metrics



Example 2

Use API to integrate metrics in publication lists

Altmetric donuts in BORIS

The burden of heat-related mortality attributable to recent

Vicedo-Cabrera, A. M.; Scovronick, N.; Sera, F.; Royé, D.; Schneider, R.; Tobias, A.; Astrom, C.; Guo, Y.; Honda, Y.; Hon Staglilorio; Saldiva, P. H. Nascimento; Lavigne, E.; Correa, P. Matus; Ortega, N. Valdes; Kan, H.; Osorio, S.; Kysely, J.; .. recent human-induced climate change. *Nature climate change*, 11(6), S. 492-500. Nature Publishing Group [10.1038/s41558-021-01058-x](https://doi.org/10.1038/s41558-021-01058-x)

Text
VicedoCabrera_11atClimChang_2021.pdf - Veröffentlichte Version
Eingeschränkt auf registrierte Benutzer
Verfügbar unter der Lizenz Verbreitungsrecht beim Verlag.
[Download \(5MB\)](#) | [Eine Kopie anfragen](#)

Text
VicedoCabrera_11atClimChang_2021_AAM.pdf - Akzentrierte Version

Letzte Änderungen: 07 Jul. 2021 13:23
Verlag DOI: [10.1038/s41558-021-01058-x](https://doi.org/10.1038/s41558-021-01058-x)
Verwandte URLs: [Datensatz](#)
PubMed ID: 34221128
BORIS DOI: [10.48350/156585](https://doi.org/10.48350/156585)
URI: <https://boris.unibe.ch/id/eprint/156585>



Altmetric donuts in publication list at D-CHAB, ETHZ

Coherent spin dynamics of electrons and holes in CsPbBr₃ perovskite crystals

Belykh V.V., Yakovlev D.R., Glazov M.M., Grigoryev P.S., Hussain M., Rautert J., Dirin D.N., Kovalenko M.V., Bayer M.

Nature Communications, 10, 1, 673, 2019-12-01 DOI [↗](#)



Structure modulated charge transfer in carbon atomic wires

Milani A., Barbieri V., Facibeni A., Russo V., Li Bassi A., Lucotti A., Tommasini M., Tzirakis M.D., Diederich F., Casari C.S.

Scientific Reports, 9, 1, 1648, 2019-12-01 DOI [↗](#)



Photoregulated fluxional fluorophores for live-cell super-resolution microscopy with no apparent photobleaching

Halabi E.A., Pinotsi D., Rivera-Fuentes P.

Nature Communications, 10, 1, 1232, 2019-12-01 DOI [↗](#)



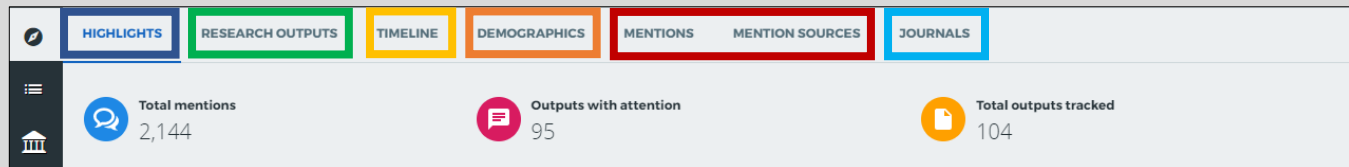
Use of Altmetric

Author and institution level metrics

Use the
**Altmetric
Explorer**

<https://www.altmetric.com/explorer>

Live Demo



- **Highlights:** What's popular and who's engaging the most with your content
- **Research output:** List of research outputs
- **Timeline:** View all mentions over time, and filter by specific attention source types
- **Demographics:** Maps of geolocations for four attention sources
- **Mentions:** All the individual mentions across all attention sources
- **Journals:** Comparison table that displays all the total mention counts for different Altmetric attention sources, aggregated by journal

Thank you for your attention

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www.unibe.ch/ub/sciencelibrary

➔ see «Coffee & Bit(e)» for lecture notes and video (uploaded within the next days)

www.unibe.ch/ub/medresearch

