The changing landscape of scientific publishing

Symposium Publish For Impact

7 February 2017, Ellen Fest
10 years ago...
4 major changes related to **publishing** and **impact**

- Open Access publishing
- track your citations
- other types of publications
- more ways to communicate
Do you get more "impact" when you publish Open Access?

Table 1 Research impact of paywalled (not OA) versus open access (OA) papers

<table>
<thead>
<tr>
<th>Field</th>
<th>Paper (n)</th>
<th>Reference (n)</th>
<th>not OA (arc)</th>
<th>OA (arc)</th>
<th>gold (arc)</th>
<th>green (arc)</th>
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<tbody>
<tr>
<td>TOTAL</td>
<td>3,350,910</td>
<td>34,865,430</td>
<td>0.81</td>
<td>1.23</td>
<td>1.06</td>
<td>1.28</td>
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<tr>
<td>Agriculture, Fisheries &amp; Forestry</td>
<td>130,025</td>
<td>604,386</td>
<td>0.85</td>
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<td>1.33</td>
<td>1.18</td>
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<td>Built Environment &amp; Design</td>
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<td>Chemistry</td>
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<tr>
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<td>1.74</td>
<td>0.76</td>
<td>1.98</td>
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<tr>
<td>Physics &amp; Astronomy</td>
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<td>0.75</td>
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<tr>
<td>Psychology &amp; Cognitive Sciences</td>
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<td>1,026,674</td>
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<td>1.23</td>
<td>1.15</td>
<td>1.19</td>
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<tr>
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<td>804,085</td>
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<td>0.89</td>
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<tr>
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<td>1,440</td>
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<td>2.19</td>
<td>1.17</td>
<td>2.69</td>
</tr>
</tbody>
</table>

Source: Computed by Science-Metrix and 1science using oaixml and the Web of Science

Do you get more "impact" when you publish Open Access?
Almost 30% of WUR refereed articles are Open Access*

* WUR refereed articles with DOI, 2013-2015; oadoi.org
OA publications tend to have a citation advantage*
but ... OA are also published in higher impact journals*,

Field Weighted Citation Impact

% articles in high impact journals

* SciVal.com; CiteScore
and have more international collaboration*
Still enough reasons to make your publication Open Access

- available for scientists who don't have access to all journals (e.g. in developing nations)
- available for others outside scientific community (e.g. engineers, journalists)
- easier to use for teaching
- funder requirements (NWO, EU, Gates Foundation)

9 February → launch Dutch National Plan on Open Science

→ 2 helpful tools
1. Journal Browser → for work to be published

www.wur.eu/library/journalbrowser
Collections

All journals
Electronic journals
All databases
Recommended databases
All dictionaries
Recommended dictionaries
All encyclopedia
Recommended encyclopedia

Textbooks by course

Open Access deal discount

100% (4753)
Less than 100% (935)

Open Access (Gold)
DOAJ (10029)

Quartile
Q1 (2509)
Q2 (2105)
Q3 (1693)
Q4 (1218)

Enter your search terms

e.g. nature, science, "air pollution", asia* AND economi*, african journal, ecology, eco*, ps*

Typing the first letter(s) plus * or typing the first word(s) of a journal title will also get you a list of titles starting with these letters or word(s). Click the dark blue bar to expand that list.

Sort result by:
Most cited by WUR staff

Records 1 - 20 / 56224

Proceedings of the National Academy of Sciences of the United States of America
National Academy of Sciences \ 1915-biology - physics - genetics - science - natural sciences - Science

Nature : international journal of science
1869-technology - science - natural sciences - Science

Science : a weekly journal devoted to the advancement of science / American Association for the Advancement of Science
1880-technology - usa - science - natural sciences - Science

PLoS One / Public Library of Science
Public Library of Science \ 2006-medicine - science - biology - ecology - evolution - natural sciences
2. **dissem.in ➔ for already published work**
Track your "impact"
How to track my citations?
citations databases

- amount of citations depends on the content
- Google Scholar > Scopus > Web of Science
- WOS:
  - create a ResearcherID
  - used for bibliometric analysis at WUR
- Scopus:
  - author profile created automatic
  - check and merge author profiles
- Google Scholar:
  - create a profile
  - good for visibility
Stats is becoming part of your Mendeley profile

We are pleased to announce that we will soon be integrating the Stats dashboard with your profile so that you can monitor the impact of your work and showcase it to others in one place.

More information

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</table>

Partitioning of organic matter and heavy metals in a sandy soil: Effects of extracting solution, solid to liquid ratio and pH

Fest E, Temminghoff E, Comans R, van Riemsdijk W

Other types of publications
mega journals

- broad, different subjects
- open access
- Article Processing Charges
- technically sound, no judgement on importance
- interesting for multidisciplinary research
- most big publishers have one
- rejected papers transferred to these journals

- PLOS ONE
- ACS Omega
- Scientific Reports
- SAGE Open
- BMJ Open
- PeerJ
- Biology Open
- IEEE Access
- Elsevier Heliyon
preprints

- version of scientific paper before peer review
- arXiv since 1991 (theoretical high-energy physics)
- now commonly used in field of: physics, mathematics, computer science, quantitative biology, quantitative finance, statistics
- submit manuscript via preprint servers: e.g. Plos Genetics
- findings immediately available
- receive feedback before submission
- link to final published article
publish a data paper AND/OR a dataset

why?
- planning more papers on the same dataset
- interesting for further reuse
- project / funder / journal requirements

- deposit data in a repository
- traditional journal or data journal
- description of the dataset

- deposit dataset in a repository
- domain specific / generic repository
- library assists
  - DANS EASY
  - 4TU Centre For Research Data

more info: www.wur.eu/datamanagement
And many more ...

ideas / proposals

protocols

online portfolio of your work

code / lab notes

posters / presentations
Communication & Networks
• aggregating altmetrics ("Altmetrics manifesto", www.altmetrics.org)
• donut integrated on publishers platforms
• only for output with DOI
• not all content available → paid service
Greenhouse-gas emissions from soils increased by earthworms

Overview of attention for article published in Nature Climate Change, February 2013

Summary

<table>
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<th>Title</th>
<th>Greenhouse gas emissions from soils increased by earthworms</th>
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<td>Published in</td>
<td>Nature Climate Change, February 2013</td>
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<tr>
<td>DOI</td>
<td>10.1038/nclimate1692</td>
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<tr>
<td>Authors</td>
<td>Ingrid M. Lubbers, Kees Jan van Groenigen, Steven J. Fonte, Johan Six, Lijbert Brussaard, Jan Willem van Groenigen [hide]</td>
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</table>

Twitter Demographics

The data shown below were collected from the profiles of 37 tweeters who shared this research output. Click here to find out more...

Readers on

155 Mendeley
• free
• compile profile of all your output (more than journal articles)
• track mentions on social media and more
• link with ORCiD
Open Access  Top 10%
87% of your research is free to read online. This level of availability puts you in the top 10% of researchers.

Hot Streak  Top 10%
People keep talking about your research. Someone has shared your research online every month for the last 57 months. That's a sharing streak matched by only 1% of scholars.

**Publications**

- **Best Practices for Scientific Computing**
  2014 *PLoS Biology*
  2163

- **The Case for Open Preprints in Biology**
  2013
  528

- **Elevating The Status of Code in Ecology**
  2016 *Trends in Ecology & Evolution*
  166
4035 ONLINE MENTIONS OVER 1 YEARS

16 tweets click to show
2 days ago

Scientific computing: Code alert
12 days ago by Nature
Best Practices for Scientific Computing

36 tweets click to show
13 days ago

Usual stuff (GitHub, …
14 days ago by
Best Practices for Scientific Computing

17 tweets click to show
14 days ago

16 tweets click to show
2 days ago
97 PUBLICATIONS

- Best Practices for Scientific Computing
  2014 PLoS Biology
  2163

- The Case for Open Preprints in Biology
  2013
  528

- Elevating The Status of Code in Ecology
  2016 Trends in Ecology & Evolution
  166

- The EcoData Retriever: Improving Access to Existing Ecological Data
  2013
  88

- Advancing Macroecology Using Informatics and Entropy

Filter by genre
- articles (54)
- preprints (10)
- others (5)
- datasets (9)
- online resources (15)
- dissertation (1)
- book (1)
- book chapters (2)

Coauthors
- C. Titus Brown
- Greg Wilson
- Neil Chue Hong
- Craig McClain
• free
• import from ORCiD
• explain your work in plain language
• share it on social networks
• measure effect on each network
• set up a social media strategy
Partitioning of organic matter and heavy metals in a sandy soil: Effects of extracting solution, solid to liquid ratio and pH


Published in: Geoderma
Publication date: July 2008
Publisher: Elsevier
DOI: http://dx.doi.org/10.1016/j.geoderma.2008.05.005

About Share Metrics Authors Related Publications Activity Log

Co-authors: sign in and claim this publication to add your perspective.

What's it about?
Add a simple, non-technical explanation or the lay summary of your publication to make it more accessible to a broader audience.

Why is it important?
Add an explanation of what is unique and/or timely about your work, and the difference it might make to help increase readership.

Perspectives
Ellen Fest (Author)

Resources
External resources such as presentations, videos, interviews, figures, data-sets or related publications
Help readers set your work in context by adding links to resources such as presentations, videos, interviews, figures, data-sets or related publications.
Post a trackable link to your publication on your social media accounts or via email, a blog post or online. We can then map your posts against metrics to help you understand which of these is helping you increase your readership.

Select which accounts to post to:

- Facebook is not yet authorized: Authorize now
- Post to Twitter: [ ]
- LinkedIn is not yet authorized: Authorize now

Email or post online

Create a trackable link to copy and share via email, other social media, or academic websites and networks (such as Mendeley, ResearchGate or Academia.edu.)

Generate Link

We will add a trackable link back to your publication on Kudos

Post
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**ADD MORE PUBLICATIONS**

**IMPROVE MY RESULTS**
Do I have to be active on Social Media?

- staying up-to-date → just follow key persons
- only when you feel comfortable
- and have time
- react on comments / discussion
- find out "where" your peers or audience is

- when you share your work via social media → make sure there is an open access version available
For questions on scientific publishing:

- www.wur.eu/library
- open access: www.wur.eu/library/open-access
- data management: www.wur.eu/datamanagement
- servicedesk.facilities@wur.nl
- +31 317 486666

Please share your experiences with these tools.  ellen.fest@wur.nl

Thanks to Jeroen Bosman & Bianca Kramer for their inspiring work on tools for scholarly communication https://101innovations.wordpress.com/
And Wouter Gerritsma for introducing me to the fascinating field of Scholarly Communication