Cite.Software

Chris Erdmann @scilifelab.se / @michaeljfox.org, Malvika Sharan @turing.ac.uk, Maaike de Jong @esciencecenter.nl, Jason Maassen @esciencecenter.nl, Lauren Cadwallader @plos.org, Fares Dhane @alliancecan.ca, Maria Cruz @nwo.nl, Carlos Martinez @esciencecenter.nl, Mark Leggott @alliancecan.ca, Rachael Lammey @crossref.org

Shared notes: bit.ly/2023-cite-software

Agenda

1 - Cite.Software Overview (Chris) - ~30 min / Q&A

2 - Software at PLoS/Survey (Lauren) - ~15 min / Q&A

Break 10 min

3 - Turing Way Software Content/Approach (Malvika) - ~ 15 min / Q&A

4 - eScience Center & the Research Software Directory (Maaike/Jason) - ~ 15 min / Q&A

5 - Software Management Plans (Maaike/Jason for Maria) - ~ 15 min / Q&A

6 - Discussion & Next Steps

Shared notes: bit.ly/2023-cite-software

Software Policies and the Game of Telephone

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SOFTWARE CITATION POLICIES INDEX

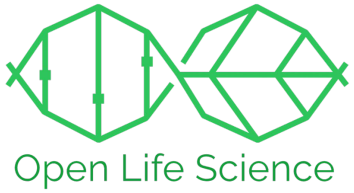
Over the last few years, publishers have been making their Software Citation Policies known either at the publisher level or at the journal level. These policies range in their mandate but many require authors to cite the software central to their findings, following published guidance from the FORCE11 Software Citation Implementation Working Group.

CHORUS has created a centralized index of these policies with links to the publisher's site. This chart will be updated at least annually.

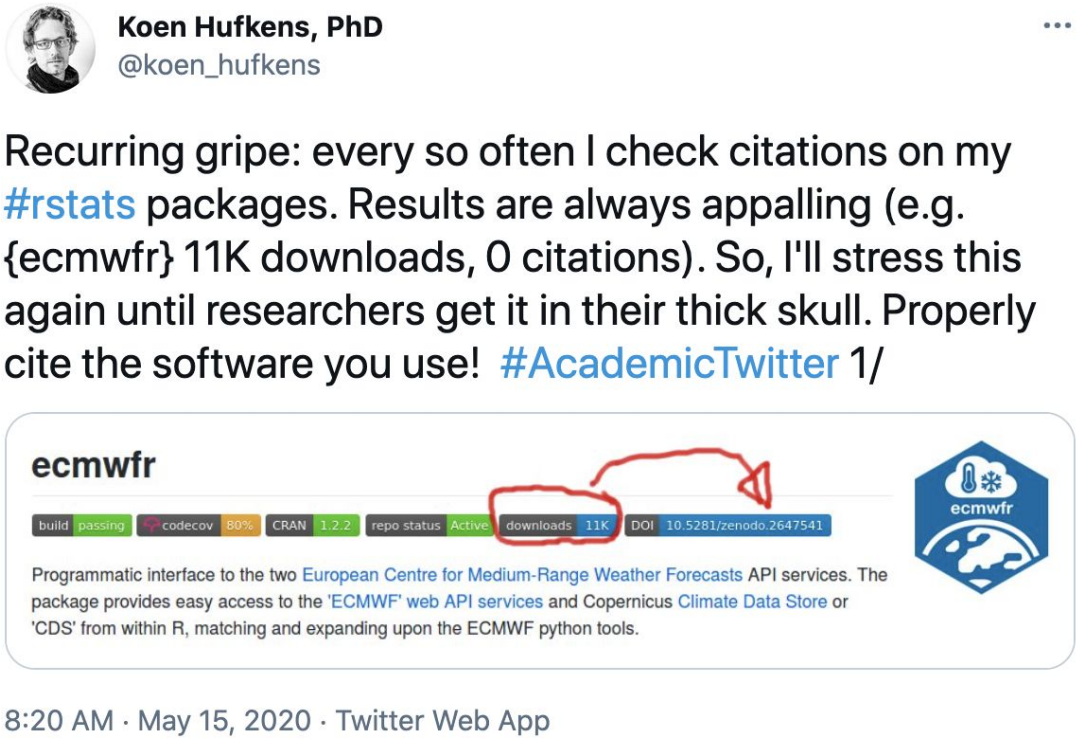
Please let us know about any updates or requested enhancements by contacting us at info@chorusaccess.org.

Publisher	Policy URL	Policy Type	Date
AAAS*	https://www.sciencemag.org/authors/science-journals-editorial-policies#research-standards	Publisher	
AAS*	https://journals.aas.org/news/policy-statement-on-software/	Publisher	Jan 1, 2016
AGU*	https://www.agu.org/Publish-with-AGU/Publish/Author-Resources/Data-and-Software-for-Authors		June 11, 2021
AMetSociety*	https://www.ametsoc.org/index.cfm/ams/about-ams/ams-statements/statements-of-the-ams-in-force/software-preservation-stewardship-and-reuse/	Publisher	2019
eLife	https://reviewer.elifesciences.org/author-guide/journal-policies		
Elsevier*	https://www.elsevier.com/about/policies/research-data	Publisher	
F1000	https://f1000research.com/for-authors/article-guidelines/research-articles	Publisher	
GigaScience Press	https://academic.oup.com/gigascience/pages/editorial_policies_and_reporting_standards#Availability%20of%20Data%20and%20Materials https://gigabytejournal.com/editorial-policies#availability-of-data-and-materials	Journal	
IOP Publishing*	https://publishingsupport.iopscience.iop.org/questions/research-data/	Publisher	
OUP*	https://academic.oup.com/journals/pages/authors/preparing_your_manuscript/research-data-policy	Publisher	2021
PNAS*	https://www.pnas.org/authors/editorial-and-journal-policies#materials-and-data-availability		

Community Resource for Sharing Software



Software Citation



Koen Hufkens, PhD
@koen_hufkens

Recurring gripe: every so often I check citations on my #rstats packages. Results are always appalling (e.g. {ecmwfr} 11K downloads, 0 citations). So, I'll stress this again until researchers get it in their thick skull. Properly cite the software you use! #AcademicTwitter 1/

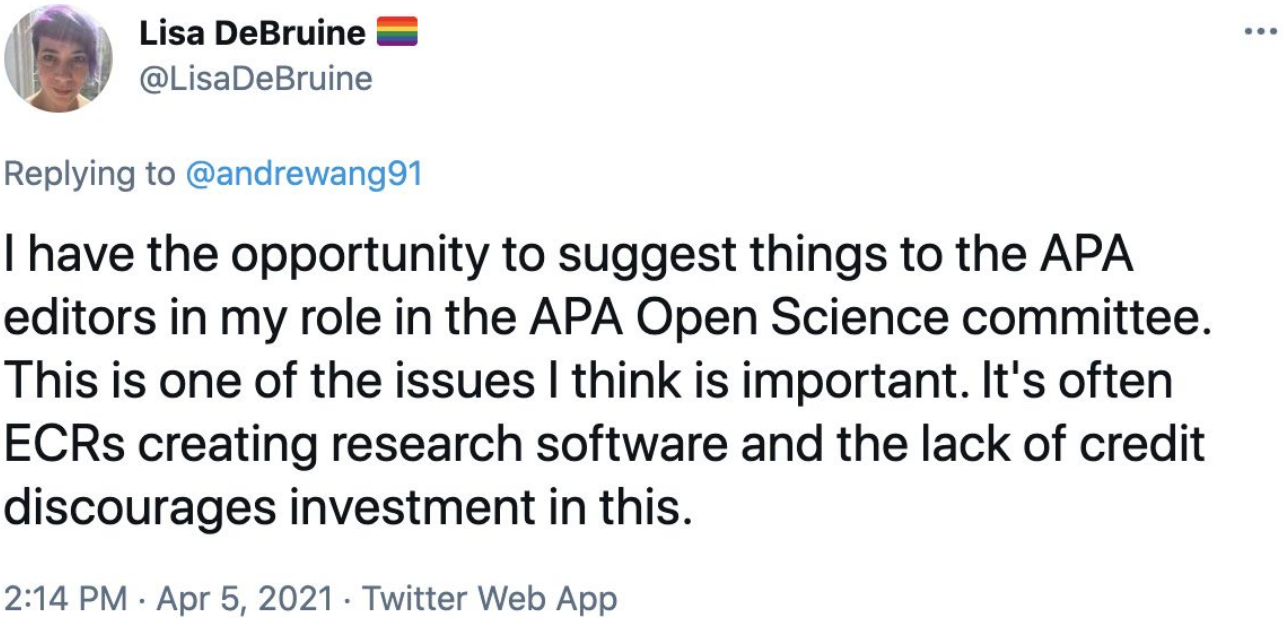
ecmwfr

build passing | codecov 80% | CRAN 1.2.2 | repo status Active | downloads 11K | DOI 10.5281/zenodo.2647541

Programmatic interface to the two European Centre for Medium-Range Weather Forecasts API services. The package provides easy access to the 'ECMWF' web API services and Copernicus Climate Data Store or 'CDS' from within R, matching and expanding upon the ECMWF python tools.

8:20 AM · May 15, 2020 · Twitter Web App

Credit for Software



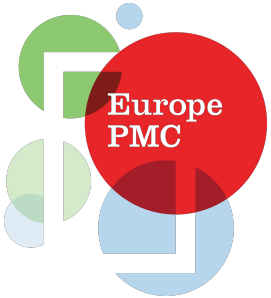
Searching for Software

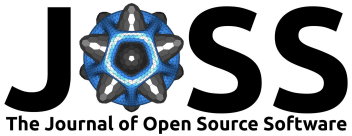
Konrad Förstner 💻🧬
@konradfoerstner

One of the core conclusions of the "finding and publishing research software" session is that there is a painful lack of search engines for research software. #oscibar #OpenScience #ResearchSoftware

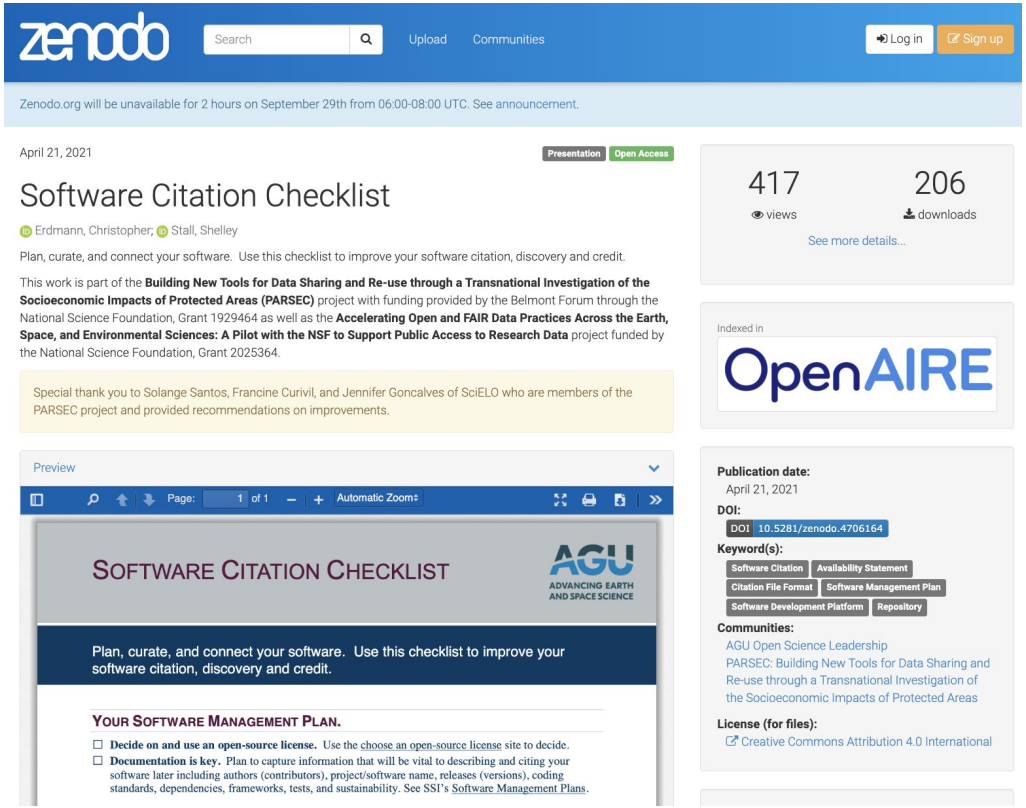
8:02 AM · Mar 12, 2018 · Twitter Web Client

Software Citation & Discovery





Software Citation Checklist



Example: Availability Statements/References

eLife

Vides, E. G., Adhikari, A., Chiang, C. Y., Lis, P., Purlyte, E., Limouse, C., Shumate, J. L., Spínola-Lasso, E., Dhekne, H. S., Alessi, D. R., & Pfeffer, S. R. (2022). A feed-forward pathway drives LRRK2 kinase membrane recruitment and activation. In eLife (Vol. 11). eLife Sciences Publications, Ltd. https://doi.org/10.7554/elife.79771

Data availability

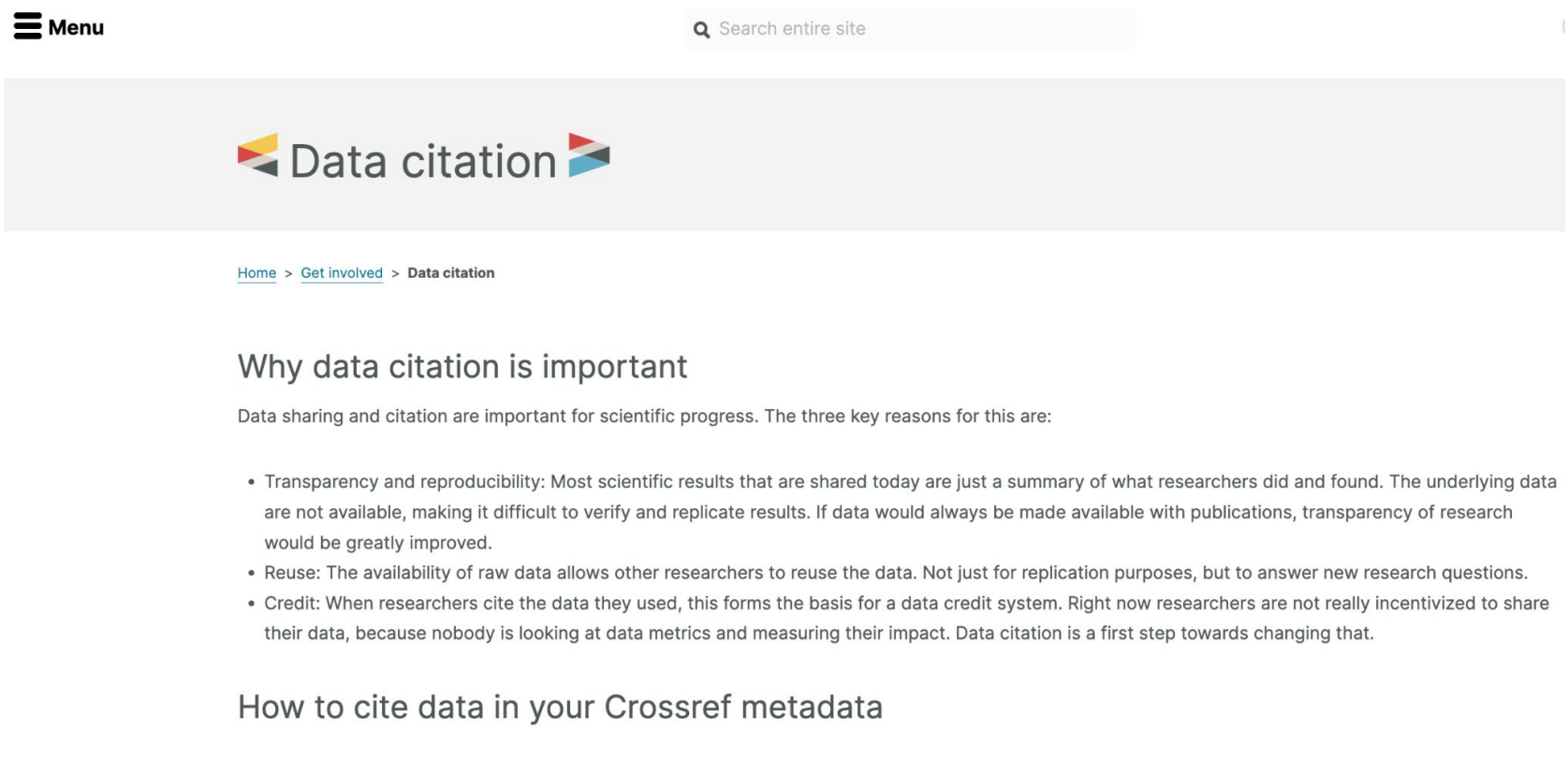
All primary data associated with each figure has been deposited in a repository; most can be found at https://doi.org/10.5061/dryad.3tx95x6j7. Quantitation data of the blots in Figure 3--figure supplement 4 (for the bar graphs in Figures 3C and 3D) can be found at doi (10.5281/zenodo.7057419). Analysis presented in Figure 8--figure supplement 1 can be found at https://doi.org/10.5281/zenodo.7108943. All code is available at https://github.com/PfefferLab/Vides_et_al_2022 (copy archived at swh:1:rev:2b50525ee1d48790466d35222956f16615ae96e8).

Vides EG, Pfeffer SR (2022) **Dryad Digital Repository** Data from: A feed-forward pathway drives LRRK2 kinase membrane recruitment and activation.
https://doi.org/10.5061/dryad.3tx95x6j7

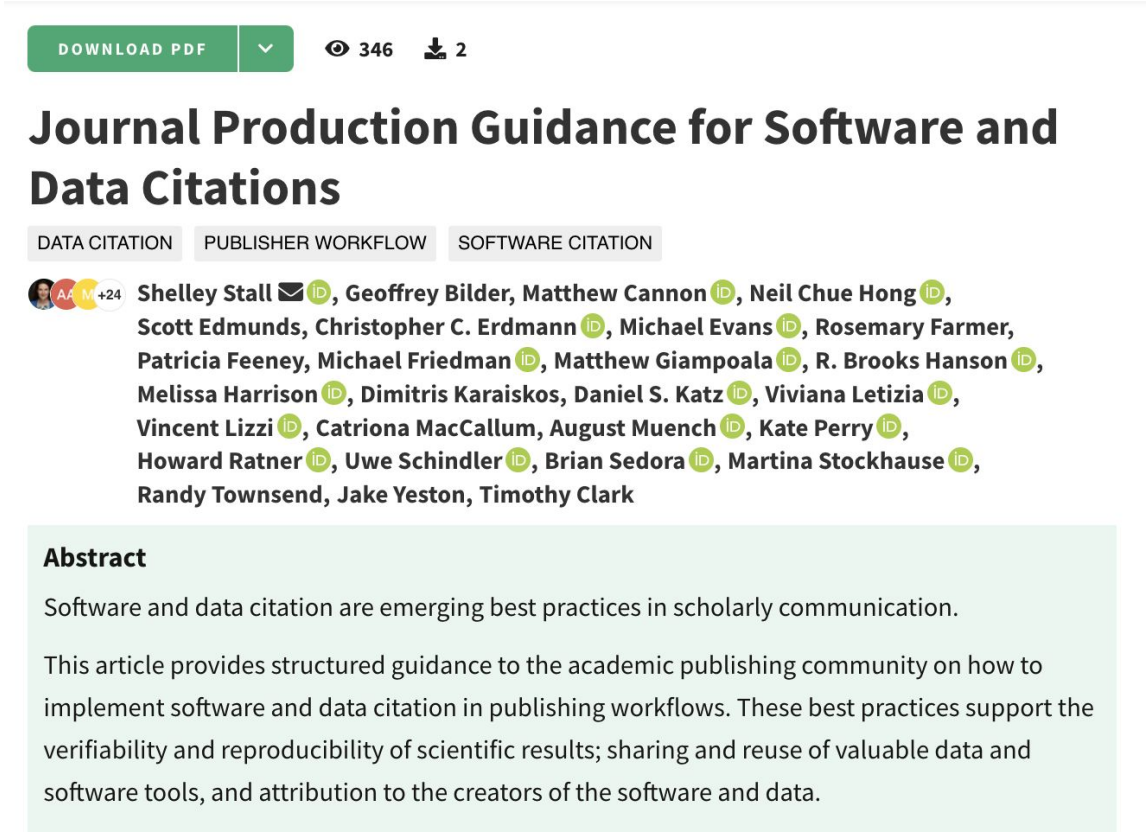
Limouse C, Vides EG, Adhikari A, Pfeffer SR (2022) **Zenodo** PfefferLab/Vides_et_al_2022: v1.0.
https://doi.org/10.5281/zenodo.7108943

Lis P, Alessi DR (2022) **Zenodo** Figure 3–Figure Supplement 4 of the paper 'A Feed-forward Pathway Drives LRRK2 kinase Membrane Recruitment and Activation'.
https://doi.org/10.5281/zenodo.7057419

Software Citation Challenges



Journal Guidance



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346 2

Journal Production Guidance for Software and Data Citations

DATA CITATION | PUBLISHER WORKFLOW | SOFTWARE CITATION

Shelley Stall, Geoffrey Bilder, Matthew Cannon, Neil Chue Hong, Scott Edmunds, Christopher C. Erdmann, Michael Evans, Rosemary Farmer, Patricia Feeney, Michael Friedman, Matthew Giampoala, R. Brooks Hanson, Melissa Harrison, Dimitris Karaiskos, Daniel S. Katz, Viviana Letizia, Vincent Lizzi, Catriona MacCallum, August Muench, Kate Perry, Howard Ratner, Uwe Schindler, Brian Sedora, Martina Stockhause, Randy Townsend, Jake Yeston, Timothy Clark

Abstract

Software and data citation are emerging best practices in scholarly communication.

This article provides structured guidance to the academic publishing community on how to implement software and data citation in publishing workflows. These best practices support the verifiability and reproducibility of scientific results; sharing and reuse of valuable data and software tools, and attribution to the creators of the software and data.

PLoS Open Science Indicators & Badges

Explore the first Open Science Indicators dataset—and share your thoughts

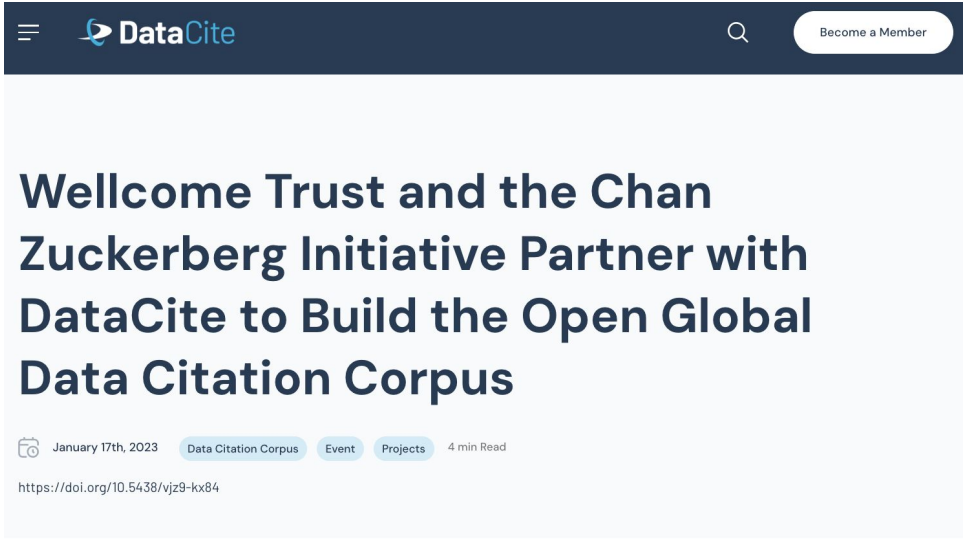
December 12, 2022 / PLOS / Open Code Open Data Open Science Open Science Indicators Preprints

Written by Lauren Cadwallader, Lindsay Morton, and Iain Hrynaszkiewicz

PLOS launches new feature to promote data sharing and access

March 29, 2022 / PLOS / In the News Open Data Open Science

Data Citation Corpus



Mining for Software

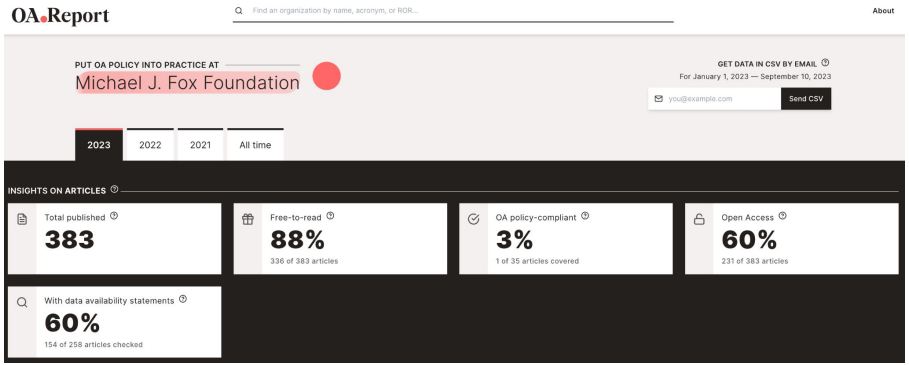
New data reveals the hidden impact of open source in science

Understanding software used by scientists by mining the biomedical literature

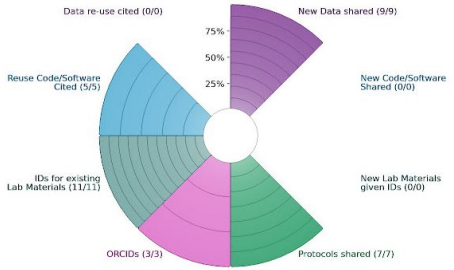
Chan Zuckerberg Initiative Science · Follow
Published in CZI Technology · 8 min read · Sep 28, 2022

66

At the Chan Zuckerberg Initiative (CZI), we believe open source tools are critical to accelerating scientific discovery. **In an effort to improve our understanding of the impact of software (and scientific open source in particular) in biomedical science, we're releasing the CZ Software Mentions Dataset — a dataset entirely composed of software mentions mined from**

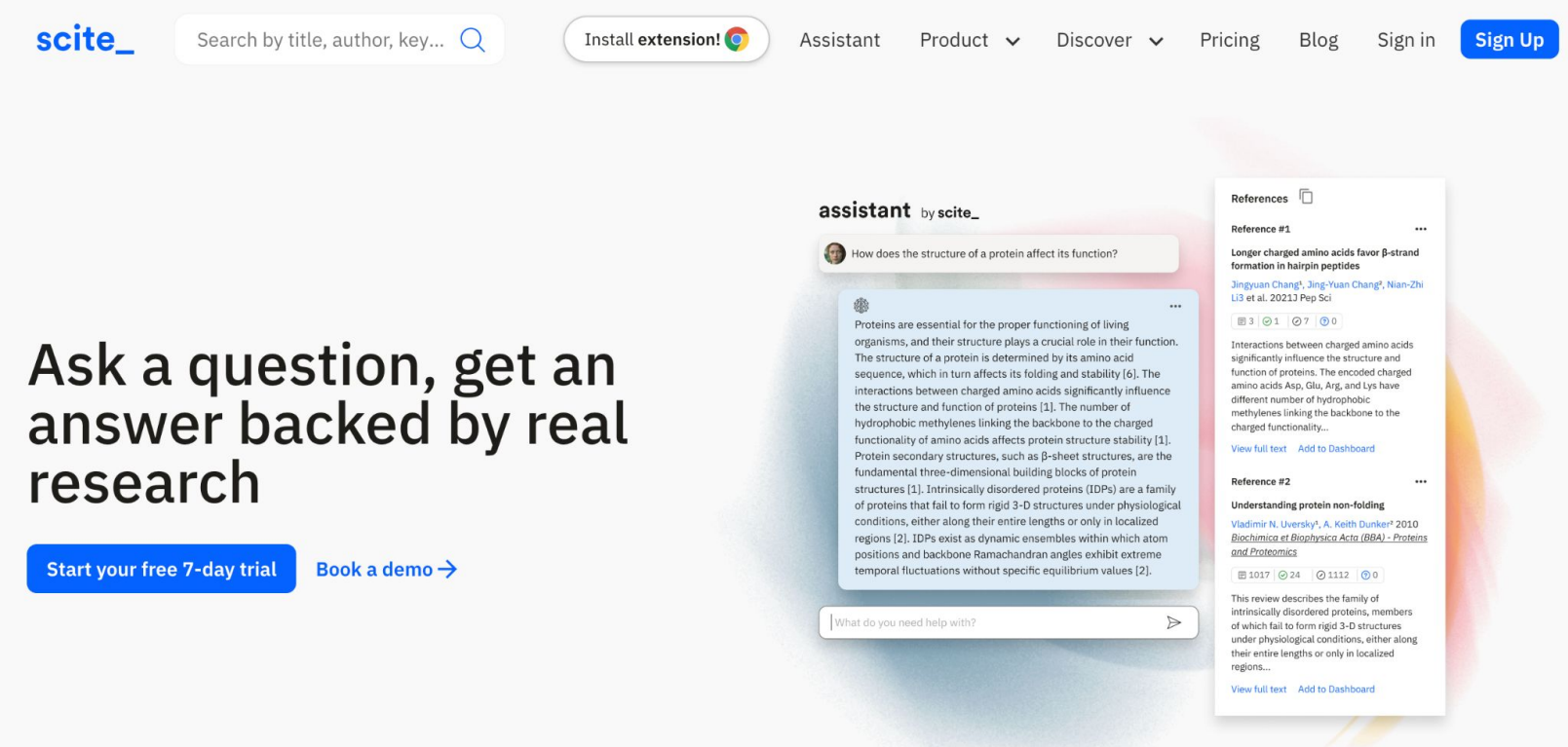


DataSeer



DataCite Commons

Software Sharing & Context



Can we provide researchers with clear instructions based on their goals?

Scenarios:

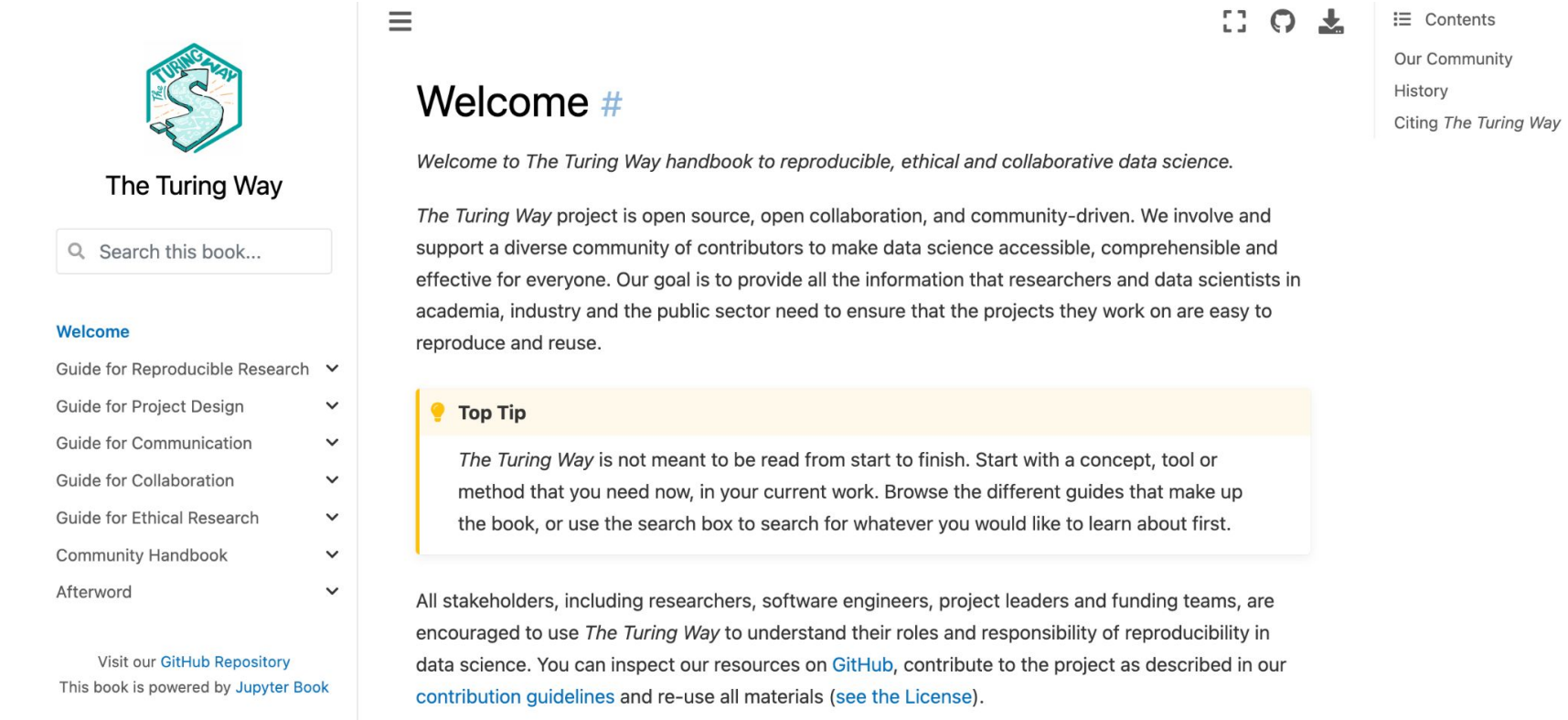
- Journal requirement
- Reproducibility
- Credit/T&P (software vs paper or both)
- Discovery/use
- Collaboration/community (and learn from others)

Researchers need something that is…

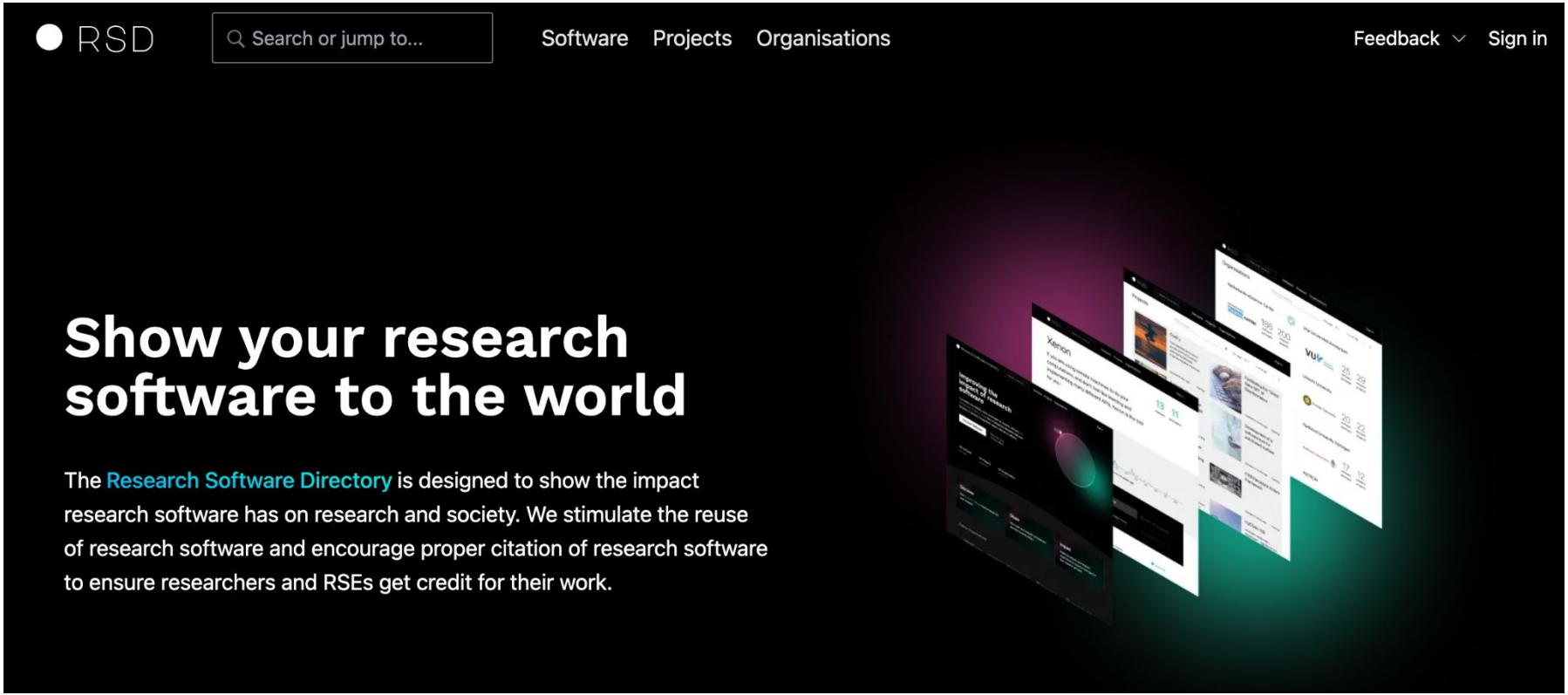
- Easy to use
- Clear (step by step instructions according to goals)
- Demonstrates the impact/what will happen by doing X
- Common solution, shared and supported by stakeholders

… and ultimately something that is automated.

The Turing Way - Community Resource



Research Software Directory - eScience Center



Journal Guidance/Support

Sharing Materials

Sharing Software

Sharing Code

Materials, Software and Code Sharing

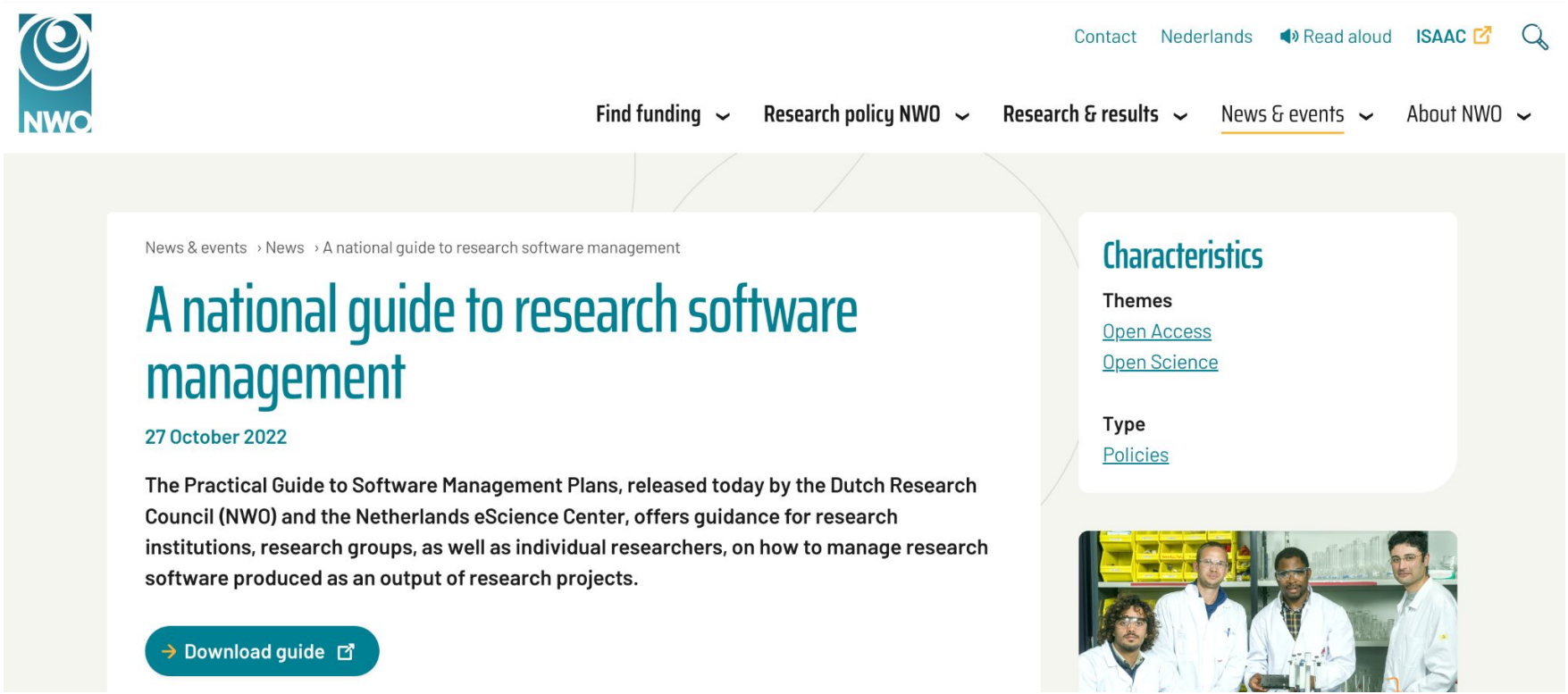
The following policy applies to all PLOS journals, unless otherwise noted.

Related policy: Data Availability

PLOS is committed to ensuring the availability of materials that underpin research. Sharing materials encourages reuse and facilitates reproducibility.

PLOS reserves the right to issue a correction, expression of concern, or retraction if unreasonable restrictions on sharing are discovered after publication. PLOS will contact authors' institutions and funders as appropriate.

Funder Guidance/Support



Research Organization Guidance/Support

SciLifeLab

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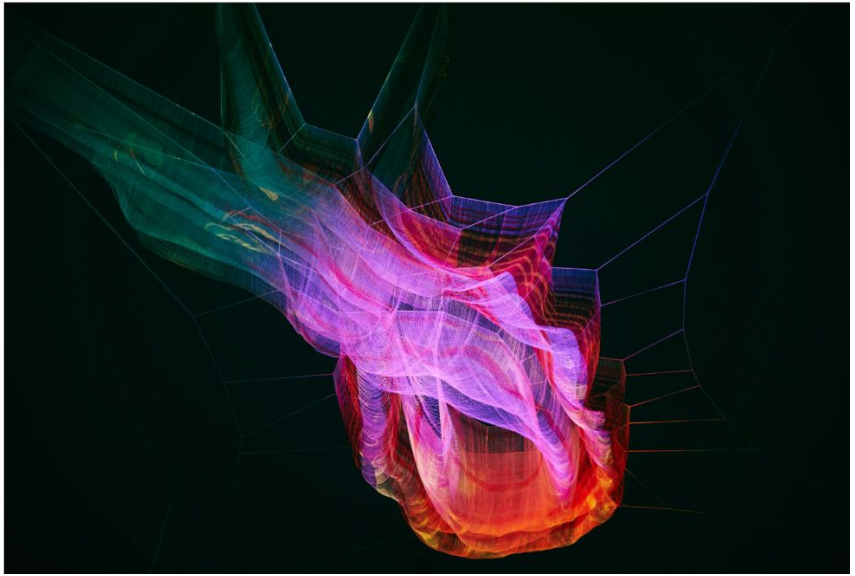
SciLifeLab / Data

A data-centric approach to Life Science

Life science research is increasingly becoming not only technology-driven, but also data-driven. SciLifeLab coordinates and supports activities throughout the life cycle of data, from project planning, data production, data analysis, data sharing, to publishing and reuse of data, where researchers are dependent on advanced data analysis and e-infrastructures.

SciLifeLab Data Centre is a central unit within SciLifeLab with responsibility for IT- and data management issues, serving the SciLifeLab and the Data Driven Life Science (DDLS) research program.

At SciLifeLab, we see data as one of the most valuable and long-lasting products of our operations and strive to make our data FAIR, handled according to open science standards and that its long-term value to the scientific community is maximized.



Cite.Software Phases

Phase 1

\+ Your Support

Phase 2

netherlands eScience center

\+ Your Support

Our proposal

See draft:

https://docs.google.com/document/d/10wyRdqIuJSW557e7jAyu2aeW9hTvHlL0_QgR99U6d8g/edit

Your Support? Your Ideas?

Thank you & discussion

Lead Contact:

Chris Erdmann, Head of Open Science, SciLifeLab

christopher.c.erdmann@gmail.com