

Citations & **COUNTER-compliant** usage statistics

OR2019 - Invenio User Group Workshop - Chiara Bigarella (CERN)

Citations

- search and filter citations
- access citing resource
- version roll-up

The screenshot shows the Zenodo page for the LMFIT software package. The title is "LMFIT: Non-Linear Least-Square Minimization and Curve-Fitting for Python". It has 2,177 views and 39 downloads. The page includes a description of the software, a list of features, and a "Citations" section with a search bar and filters.

Citations
with version roll-up

Search & filter
citations

Access
citing resource

The screenshot shows the "Citations" section of the Zenodo page. It displays a list of 88 citations, with filters for Literature (88), Unknow (1), Dataset (0), and Software (0). The list includes titles, authors, and publication years, along with buttons for ADS, ARXIV, and DOI.

Title	Year	ADS	ARXIV	DOI
Systematically Measuring Ultra-diffuse Galaxies (SMUGGles). I. Sur...	2018	ADS	ARXIV	DOI
K2-264: A transiting multi-planet system in the Praesepe open clu...	2018	ADS	ARXIV	DOI
Modeling and predicting total hydrogen adsorption in nanoporous c...	2018	ADS	DOI	
Sixty Validated Planets from K2 Campaigns 5–8	2018	ADS	ARXIV	DOI
Toward a Measurement of the Transverse Peculiar Velocity of Galax...	2018	ADS	ARXIV	DOI
The California-Kepler Survey. VII. Precise Planet Radii Leverage...	2018	ADS	ARXIV	DOI
Correlating structural distributions in silica glass with two-dim...	2018	ADS	DOI	
Simultaneous Spectral Energy Distribution and Near-infrared Inter...	2018	ADS	ARXIV	DOI
Testing strong line metallicity diagnostics at z ~ 2	2018	ADS	ARXIV	DOI
The gravitational redshift of Sirius B	2018	ADS	ARXIV	DOI

Asclepias

Enabling Software Citation and Discovery through
links (PIDs) exchange in astronomy



Alfred P. Sloan
FOUNDATION



American Astronomical Society

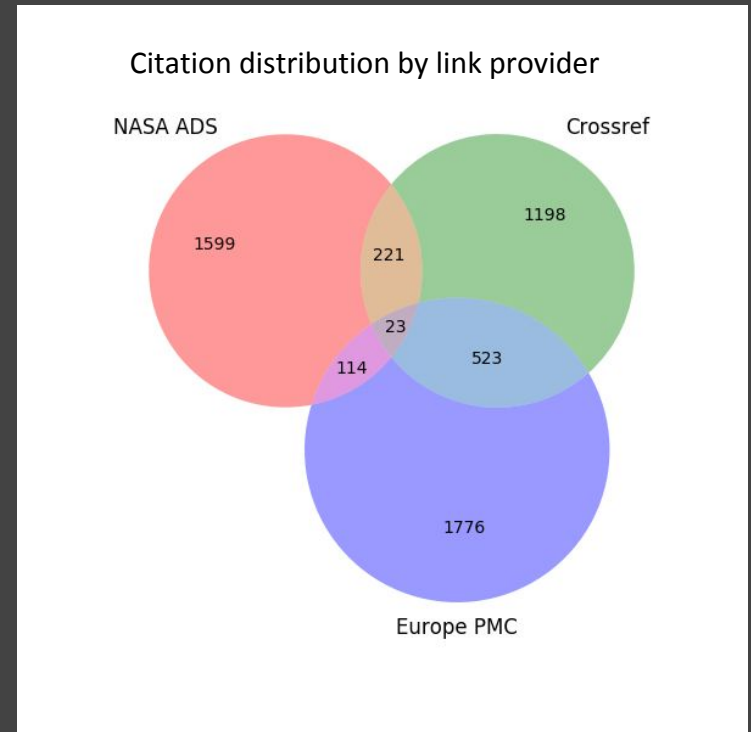
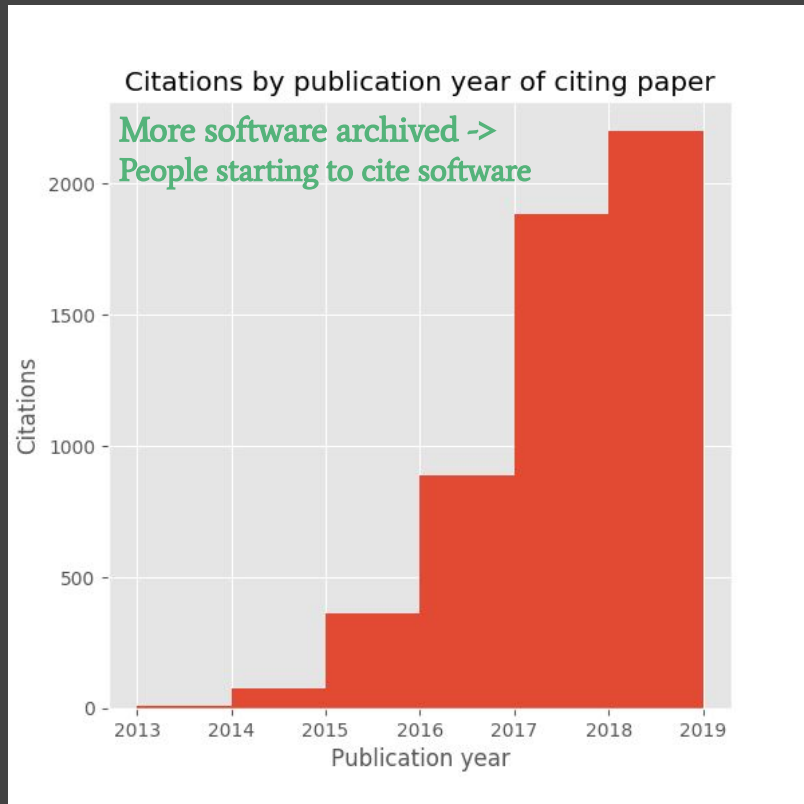
zenodo

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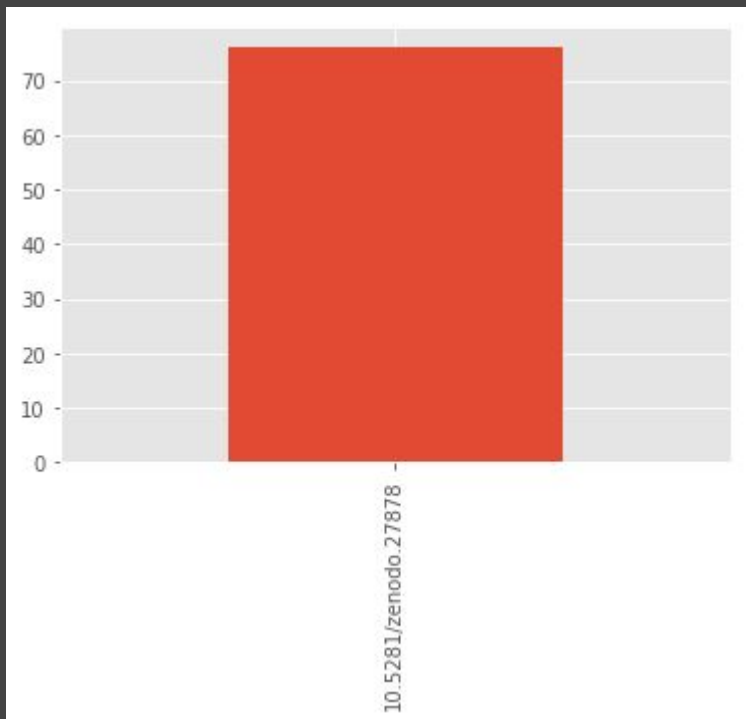


Astrophysics Data System

Where do you find citations to Zenodo DOIs?



What is the impact of citation recommendations? (1/2)



Lasagne Citation (BibTeX)

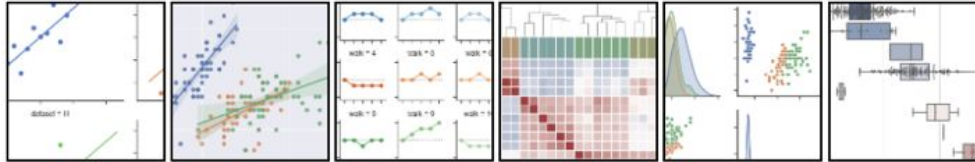
Jan Schlüter edited this page on 16 Mar 2017 · 2 revisions

To cite Lasagne in your work, use the following BibTeX entry:

```
@misc{lasagne,  
  author      = {Sander Dieleman and  
                Jan Schlüter and  
                Colin Raffel and  
                Eben Olson and  
                Søren Kaae Sønderby and  
                Daniel Nouri and  
                Daniel Maturana and  
                Martin Thoma and  
                Eric Battenberg and  
                Jack Kelly and  
                Jeffrey De Fauw and  
                Michael Heilman and  
                Diogo Moitinho de Almeida and  
                Brian McFee and  
                Hendrik Weideman and  
                Gábor Takács and  
                Peter de Rivaz and  
                Jon Crall and  
                Gregory Sanders and  
                Kashif Rasul and  
                Cong Liu and  
                Geoffrey French and  
                Jonas Degrave},  
  title       = {Lasagne: First release.},  
  month       = aug,  
  year        = 2015,  
  doi         = {10.5281/zenodo.27878},  
  url         = {http://dx.doi.org/10.5281/zenodo.27878}  
}
```

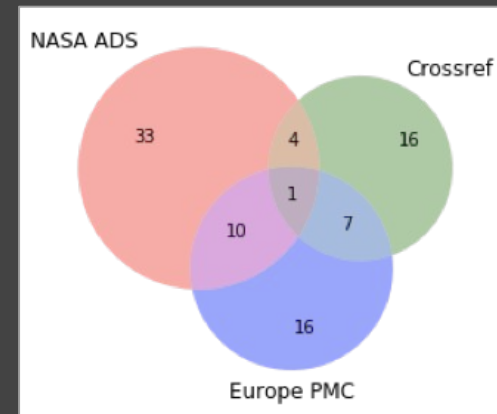
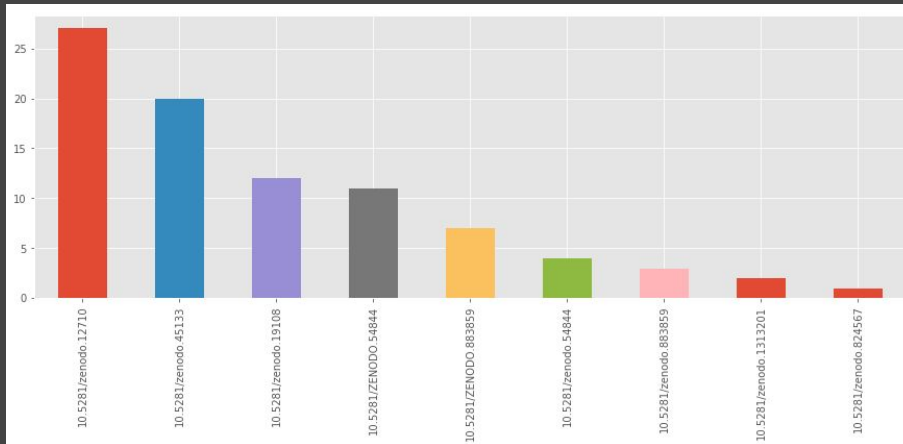
What is the impact of citation recommendations? (2/2)

seaborn: statistical data visualization



pypi v0.9.0 license BSD (3-clause) DOI 10.5281/zenodo.883859 build passing codecov 94%

Seaborn is a Python visualization library based on matplotlib. It provides a high-level interface for drawing attractive statistical graphics.



Usage statistics



Usage statistics in Zenodo

The screenshot shows a Zenodo record page for the publication "Untangling Academic Publishing: A history of the relationship between commercial interests, academic prestige and the circulation of research". The page displays usage statistics for 3,616 views and 31 downloads. A callout bubble points to these statistics, stating "Usage statistics with version roll-up". Another callout bubble points to a "See more details..." link, stating "Expand for details". A third callout bubble points to a table of usage metrics, stating "Standards compliant COUNTER Making Data Count".

Usage statistics with version roll-up

Expand for details

Standards compliant COUNTER Making Data Count

	All versions	This version
Views	3,616	3,616
Downloads	31	31
Data volume	17.9 MB	17.9 MB
Unique views	3,601	
Unique downloads	31	

Usage statistics

- Feedback on data usage, views, and impact
- Help record owners understand how much interest people have in their own records
- Allow comparison with other repositories



COUNTER compliant usage statistics

- **COUNTER Code of Practice:** standard for the generation and distribution of the usage metrics for *scholarly resources*
- **Code of Practice for Research Data Usage Metrics:** standard for the generation and distribution of the usage metrics for *research data*



COUNTER compliant usage statistics

→ **Robots**

Counting users (humans or machines) visiting a record,
excluding robots

→ **Unique**

Double-clicking is excluded
User session

→ **Versioning**

Aggregated counts for record and also for each version

Usage statistics in Zenodo (1/3)

→ Anonymization:

- ◆ split access logs from statistics processing
- ◆ usage statistics events generated by the backend
- ◆ remove fields that can uniquely identify a user
- ◆ generation of *visitor_id* and *unique_session_id*
- ◆ randomly generated 32-bytes salt which expires every 24h
- ◆ *unique_session_id* takes into account also the hour of the event
- ◆ country information extracted from IP address

→ Versioning:

- ◆ use of the concept DOI for all versions statistics

Usage statistics in Zenodo (2/3)

→ Robots:

- ◆ COUNTER-robots Python package: COUNTER-compliant detection of machines and robots
- ◆ robots are excluded from usage statistics
- ◆ machines are included, but with a flag

→ Unique:

- ◆ double-click are excluded
- ◆ difference between views/downloads and unique views/downloads

Usage statistics in Zenodo (3/3)

- invenio-stats
 - define new events
 - define how an event has to be processed
 - define aggregations
 - define queries
- not yet released

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Issues

- script to increase usage statistics
- email client keep opening/downloading a record

Solution

→ Unique views and downloads



The importance of UNIQUE statistics

- based on unique user-sessions
- independent from the effect different styles of user interface may have on usage counts
- only a partial solution

Thank you! :)