

OpenAlex

BarDec Working Group 5.
30 September 2025.

Kyle Demes, COO

Overview

- Intro
- Sustainability
 - structure
 - openness
 - funding
 - contingencies
- Q&A

Research information organized and open.

Sources [261k]



Publishers [11k]



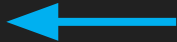
Institutions [118k]



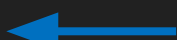
Works [271M]



Funders [32k]



Authors [105M]



Topics [4.5k]



Sudden collapse of a mesopredator reveals its complementary role in mediating rocky reef regime shifts

Work (Article)

[HTML](#)

Published: 2018
Source: [Proceedings of The Royal Society B: Biological Sciences](#)
Authors: [Jenn M. Burt \(Simon Fraser University\)](#); [M. Tim Tinker \(University of California, Santa Cruz\)](#); [Daniel K. Okamoto \(Florida State University, Simon Fraser University\)](#); [Kyle W. Demes \(University of British Columbia, Simon Fraser University\)](#); [Keith Holmes \(Tula Foundation\)](#); [Anne K. Salomon \(Simon Fraser University\)](#)
Concepts: [Trophic cascade](#), [Mesopredator release hypothesis](#), [Reef](#)

Cited by: 76
Cites: 55
Related: 10

Abstract

While changes in the abundance of keystone predators can have cascading effects resulting in regime shifts, the role of mesopredators in these processes remains underexplored. We conducted annual surveys of rocky reef communities that varied in the recovery of a keystone predator (sea otter, *Enhydra lutris*) and the mass mortality of a mesopredator (sunflower sea star, *Pycnopodia helianthoides*) due to an infectious wasting disease. By fitting a population model to empirical data, we show that sea otters had the greatest impact on the mortality of large sea urchins, but that *Pycnopodia* decline corresponded to a 311% increase in medium urchins and a 30% decline in kelp densities. Our results reveal that predator complementarity in size-selective prey consumption strengthens top-down control on urchins, affecting the resilience of alternative reef states by reinforcing the resilience of kelp forests and eroding the resilience of urchin barrens. We reveal previously underappreciated species interactions within a 'classic' trophic cascade and regime shift, highlighting the critical role of middle-level predators in mediating rocky reef state transitions.

Funders (4)

Locations (3)

Identifiers (4)

Open data

OpenAlex dataset

graph json metadata scholarly communication

Description

An open, comprehensive index of scholarly papers, citations, authors, institutions, and journals.

Update Frequency

Approximately monthly

License

CC0

Documentation

<https://docs.openalex.org>

Managed By

[OurResearch](#)

See all datasets managed by [OurResearch](#).

Contact


team@ourresearch.org

How to Cite

OpenAlex dataset was accessed on `DATE` from <https://registry.opendata.aws/openalex>.

Usage Examples

Tutorials

- [AWS](#) Data Analysis and Knowledge Graph with OpenAlex dataset by Gabriel Bella Martini
 Open Studio Lab
[Amazon SageMaker Studio Lab](#)
- Download snapshot by [OurResearch](#)
- Getting citation data from OpenAlex by DOI (Jupyter notebook) by Jens Peter Anderson

Publications

- OpenAlex: A fully-open index of scholarly works, authors, venues, institutions, and concepts by Jason Priem, Heather Piwowar, Richard Orr

Resources on AWS

Description

OpenAlex Entities in JSON Lines format

Resource type

S3 Bucket

Amazon Resource Name (ARN)

`arn:aws:s3:::openalex`

AWS Region

`us-east-1`

AWS CLI Access (No AWS account required)

`aws s3 ls --no-sign-request s3://openalex/`

Explore

[Browse Bucket](#)

Description

Openalex Entities decomposed to tab-separated columnar files for backward compatibility with Microsoft Academic Graph

Resource type

S3 Bucket

Amazon Resource Name (ARN)

`arn:aws:s3:::openalex-mag-format`

AWS Region

`us-east-1`

AWS CLI Access (No AWS account required)

`aws s3 ls --no-sign-request s3://openalex-mag-format/`


Explore

[Browse Bucket](#)

Open API

```
api.openalex.org/works
{
  - meta: {
    count: 267806394,
    db_response_time_ms: 51,
    page: 1,
    per_page: 25,
    groups_count: null
  },
  - results: [
    - {
      id: "https://openalex.org/W1775749144",
      doi: "https://doi.org/10.1016/s0021-9258(19)52451-6",
      title: "PROTEIN MEASUREMENT WITH THE FOLIN PHENOL REAGENT",
      display_name: "PROTEIN MEASUREMENT WITH THE FOLIN PHENOL REAGENT",
      publication_year: 1951,
      publication_date: "1951-11-01",
      - ids: {
        openalex: "https://openalex.org/W1775749144",
        doi: "https://doi.org/10.1016/s0021-9258(19)52451-6",
        mag: "1775749144",
        pmid: "https://pubmed.ncbi.nlm.nih.gov/14987713"
      },
      language: "en",
      - primary_location: {
        is_oa: true,
        landing_page_url: "https://doi.org/10.1016/s0021-9258(19)52451-6",
        pdf_url: null,
        - source: {
          id: "https://openalex.org/S140251998",
          display_name: "Journal of Biological Chemistry",
          issn_l: "0021-9258",
          - issn: [
            "0021-9258",
            "1067-8816",
            "1083-351X"
          ],
          is_oa: true,
          is_in_doaj: true,
          is_indexed_in_scopus: true,
          is_core: true,
          host_organization: "https://openalex.org/P4310320998",
          host_organization_name: "Elsevier BV",
          - host_organization_lineage: [
            "https://openalex.org/P4310320998"
          ],
          - host_organization_lineage_names: [
            "Elsevier BV"
          ],
          type: "journal"
        },
        license: "cc-by",
        license_id: "https://openalex.org/licenses/cc-by",
        version: "publishedVersion",
        is_accepted: true,
        is_published: true
      },
      type: "article",
      type_crossref: "journal-article",
      - indexed_in: [
        "crossref"
      ],
      - open_access: {
        is_oa: true,
        oa_status: "hybrid",
        oa_url: "https://doi.org/10.1016/s0021-9258(19)52451-6"
      }
    }
  ]
}
```

Open user interface

 OpenAlex

Works

Search OpenAlex

Analytics

Unsaved search

Show works where:

Country is Canada

Works

Density-functional thermochemistry. III. The role of exact exchange
1993 · Axel D. Becke · *The Journal of Chemical Physics*
Cited by 98,450 PDF

Adam: A Method for Stochastic Optimization
2014 · Diederik P. Kingma, Jimmy Ba
Cited by 85,570


Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement
2009 · David Moher, A. Liberati, et al. · *BMJ*
Cited by 80,940 PDF


Fitting Linear Mixed-Effects Models Using **lme4**
2015 · Douglas M. Bates, Martin Mächler, et al. · *Journal of Statistical Software*
Cited by 73,860 PDF

Deep learning
2015 · Yann LeCun, Yoshua Bengio, et al. · *Nature*
Cited by 71,270

Stats

4,102,000 results

 Open Access

 **36.6%**
1,500,000

Institution

<input type="checkbox"/> University of Toronto	505,500
<input type="checkbox"/> University of British Columbia	313,900
<input type="checkbox"/> McGill University	263,300
<input type="checkbox"/> University of Alberta	237,700
<input type="checkbox"/> International Collaboration On Repair Discoveries	215,300

[More...](#)

Type

<input type="checkbox"/> article	3,303,000
<input type="checkbox"/> book-chapter	234,700
<input type="checkbox"/> review	195,800
<input type="checkbox"/> preprint	131,700
<input type="checkbox"/> letter	58,240

[More...](#)

SDG

<input type="checkbox"/> Good health and well-being	611,700
<input type="checkbox"/> Affordable and clean energy	203,900
<input type="checkbox"/> Life below water	182,200
<input type="checkbox"/> Quality education	166,300
<input type="checkbox"/> Clean water and sanitation	156,600

[More...](#)

Topic

<input type="checkbox"/> Canadian Identity and History	21,320
<input type="checkbox"/> Geological and Geochemical Analysis	13,810
<input type="checkbox"/> Geology and Paleoclimatology Research	11,070
<input type="checkbox"/> Fish Ecology and Management Studies	10,480
<input type="checkbox"/> French Urban and Social Studies	8,895

[More...](#)

Subfield

<input type="checkbox"/> Molecular Biology	162,700
<input type="checkbox"/> Sociology and Political Science	138,000
<input type="checkbox"/> Electrical and Electronic Engineering	122,800
<input type="checkbox"/> Surgery	91,780
<input type="checkbox"/> Artificial Intelligence	74,970

[More...](#)

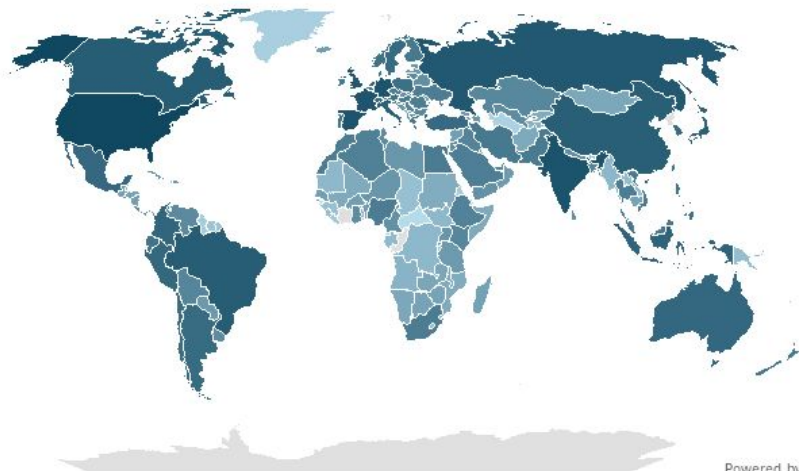
Country

<input checked="" type="checkbox"/> Canada	4,102,000
<input type="checkbox"/> United States of America	782,000
<input type="checkbox"/> United Kingdom of Great Britain and Northern Ireland	262,300
<input type="checkbox"/> France	169,600
<input type="checkbox"/> China	165,100

[More...](#)

Users

OpenAlex visitors (0-116k, in USA)



© Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, Overture Maps Foundation, TomTom, Zenrin

20M

API calls/day

600

citations

10,000+

mentions

Sustainability

- Intro
- **Sustainability**
 - **structure**
 - openness
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 - contingencies
- Conclusion

501(c)3 nonprofit

'ImpactStory' has no owner
and no stockholders.

note: our official government name is "Impactstory."



NORTH CAROLINA Department of the Secretary of State

To all whom these presents shall come, Greetings:

I, Elaine F. Marshall, Secretary of State of the State of North Carolina, do hereby certify the following and hereto attached to be a true copy of

ARTICLES OF INCORPORATION

OF

IMPACTSTORY

the original of which was filed in this office on the 18th day of December, 2012.




Scan to verify online.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Raleigh, this 19th day of December, 2012.

Elaine F. Marshall

Secretary of State

We're also in Canada

 **BRITISH COLUMBIA**

OrgBook BC

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[← Back to search](#)

IMPACTSTORY
Business number: 847905833
Active • Extraprovincial Company

ACTIVE

Registration Credentials

[Show all Credential statuses](#)

Registration 

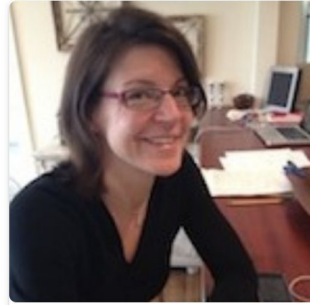
IMPACTSTORY is a
[Extraprovincial Company](#) ⓘ

Extraprovincial Company: A0093553
Registered on: Oct 21, 2014
Business name effective: Oct 21, 2014

Credentials

Our Board of Directors

The board controls the company and has a **legal obligation** to make decisions that serve our mission.



Heather Joseph

[MORE](#)



Johanna McEntyre

[MORE](#)



Jason Priem

[MORE](#)

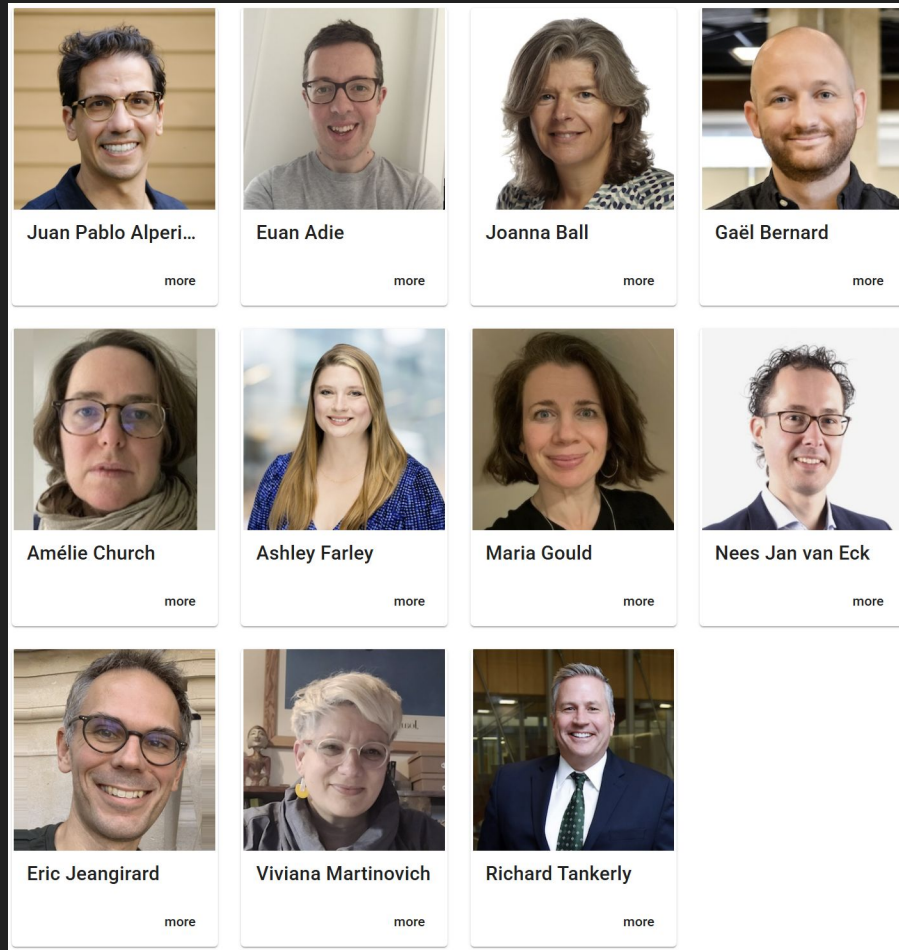


Ethan White

[MORE](#)

Our Community Advisory Board

provides input into
business issues of
OpenAlex in an advisory
capacity



Sustainability

- Intro
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OpenAlex dataset

graph json metadata scholarly communication

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Approximately monthly

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CC0

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<https://docs.openalex.org>

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OurResearch

See all datasets managed by [OurResearch](#).

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team@ourresearch.org

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- [Download snapshot](#) by OurResearch
- [Getting citation data from OpenAlex by DOI \(Jupyter notebook\)](#) by Jens Peter Anderson

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`us-east-1`



AWS CLI Access (No AWS account required)

`aws s3 ls --no-sign-request s3://openalex-mag-format/`

Explore


[Browse Bucket](#)

Persistently open data











Published October 16, 2024 | Version v1

Dataset

 Open

OpenAlex Snapshot

Jason, Priem¹ ; Heather, Piwowar¹ ; Barrett, Justin¹ ; Demes, Kyle¹ ;
McCafferty, Nolan¹ ; Meyer, Casey (Contact person)¹ ; Orr, Richard¹ ;
Portenoy, Jason¹ 

Show affiliations

OpenAlex is an open, comprehensive index of scholarly papers, citations, authors, institutions, and journals. Available through API and UI as well (at openalex.org), this record refers to the full data snapshot.

When citing OpenAlex, don't use this record. Instead, use:

Priem, J., Piwowar, H., & Orr, R. (2022). OpenAlex: A fully-open index of scholarly works, authors, venues, institutions, and concepts. *ArXiv*. <https://arxiv.org/abs/2205.01833>


This record is intended for long-term persistence but because the OpenAlex snapshot updates every month, it is better to download the current version directly from AWS. Information on how to download the entire data snapshot for OpenAlex can be found at: <https://docs.openalex.org/download-all-data/openalex-snapshot>



Notes


Cite as:
Priem, J., Piwowar, H., & Orr, R. (2022). OpenAlex: A fully-open index of scholarly works, authors, venues, institutions, and concepts. ArXiv. https://arxiv.org/abs/2205.01833


Files

snapshot-csv_10_2024.zip




 snapshot-csv_10_2024.zip 


 csv-files

 authors.csv.gz

3.6 GB



 authors_counts_by_year.csv.gz


1.3 GB










 authors_ids.csv.gz


689.2 MB

Open code

  ourresearch





Q Type  to search

 Overview  Repositories 120  Projects 2  Packages  Teams 2  People 4  Security  Insights  S




OurResearch




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Pinned Customize pins




 **unpaywall-extension** Public


Firefox/Chrome extension that gives you a link to a free PDF when you view scholarly articles

 JavaScript  466  50




 **oadoi** Public


The backend code that powers Unpaywall. support@unpaywall.org

 Python  339  35




 **depsy** Public


Track the impact of research software.

 Python  202  11




 **impactstory-tng** Public


Impactstory: the next generation

 Python  80  14




 **paperbuzz-api** Public

wrapper for the crossref events api

 Python  21  1

 **citeas-api** Public

Get the scholarly citation for any research product: software, preprint, paper, or dataset

 Python  81  6

Repositories

Q Find a repository... Type ▾ Language ▾ Sort ▾ New

unpaywall-website Public

Website for Unpaywall Data

 Vue  1  6  2  34 Updated 18 hours ago

oadoi Public

The backend code that powers Unpaywall. support@unpaywall.org

 Python  339  MIT  35  2  11 Updated yesterday

openalex-docs Public

The GitBook documentation site for OpenAlex

 Jupyter Notebook  20  18  6  8 Updated 5 days ago

openalex-corrections-api Public

API endpoints for correction reports to OpenAlex data.


 Python  0  0  0  0 Updated 2 weeks ago

openalex-guts Public

The guts for computing data for OpenAlex. For more, see <https://openalex.org/>.

 Python  137  MIT  12  0  1 Updated 2 weeks ago

Persistently open code

 SoftwareHeritage

Search

Downloads

Save code now

Add forge now

Help

ourresearch

☒ only show origins visited at least once

☒ filter out origins with no archived content

☐ search in metadata (instead of URL)

visit typeany

Origin type	Origin url	Archiving status
git	https://github.com/ourresearch/unsub-ids	✓ Archived
git	https://github.com/CongLeSolutionX/ourresearch_citeas-api	✓ Archived
git	https://github.com/ourresearch/articlepage	✓ Archived
git	https://github.com/BazCow75/https-github-com-ourresearch-get-unsub	✓ Archived
git	https://github.com/ourresearch/oadoi-papern	✓ Archived
git	https://github.com/ourresearch/oadoi-website	✓ Archived
git	https://github.com/ourresearch/unpaywall-export	✓ Archived
git	https://github.com/ourresearch/total-impact-deploy	✓ Archived
git	https://github.com/ourresearch/impactstory-tng	✓ Archived
git	https://github.com/ourresearch/openalex-concept-tagging	✓ Archived
git	https://github.com/ourresearch/unpaywall-journals-redirecter	✓ Archived
git	https://github.com/ourresearch/research-level-altmetrics	✓ Archived
git	https://github.com/ourresearch/openalex-schema-test	✓ Archived
git	https://github.com/ourresearch/plan-s-journal-checker	✓ Archived
git	https://github.com/ourresearch/journalsdb	✓ Archived
git	https://github.com/ourresearch/jump-cloudflare	✓ Archived
git	https://github.com/ourresearch/gtr-webapp	✓ Archived
git	https://github.com/ourresearch/app-starter	✓ Archived
git	https://github.com/ourresearch/biomed	✓ Archived
git	https://github.com/ourresearch/api-starter-kit	✓ Archived
git	https://github.com/ourresearch/our-research-redirector	✓ Archived
git	https://github.com/ourresearch/citation-parser	✓ Archived
git	https://github.com/ourresearch/unpaywall-website	✓ Archived
git	https://github.com/ourresearch/citeas-api	✓ Archived
git	https://github.com/ourresearch/openalex-api	✓ Archived
git	https://github.com/ourresearch/oadoi	✓ Archived
git	https://github.com/ourresearch/paperbuzz-api	✓ Archived
git	https://github.com/ourresearch/get-unsub	✓ Archived
git	https://github.com/ourresearch/openalex-gui	✓ Archived

Funding

- Intro
- Sustainability
 - structure
 - openness
 - **funding**
 - contingencies
- Conclusion

OurResearch grants

<https://www.ogrants.org/grants-01-all>
search for "Priem"

Open Grants

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[Grants by Funder](#)
[Grants by Program](#)
[Data and License](#)
[GitHub project](#)

Funding from the [Institute of Museum and Library Services](#) and [Moore Foundation](#)

Grants (all)

An increasing number of researchers are sharing their grant proposals openly. They do this to open up research so that all stages of the process can benefit from better interaction and communication and to provide examples for early career researchers writing grants. This is a list of 290 of these proposals to help you find them.

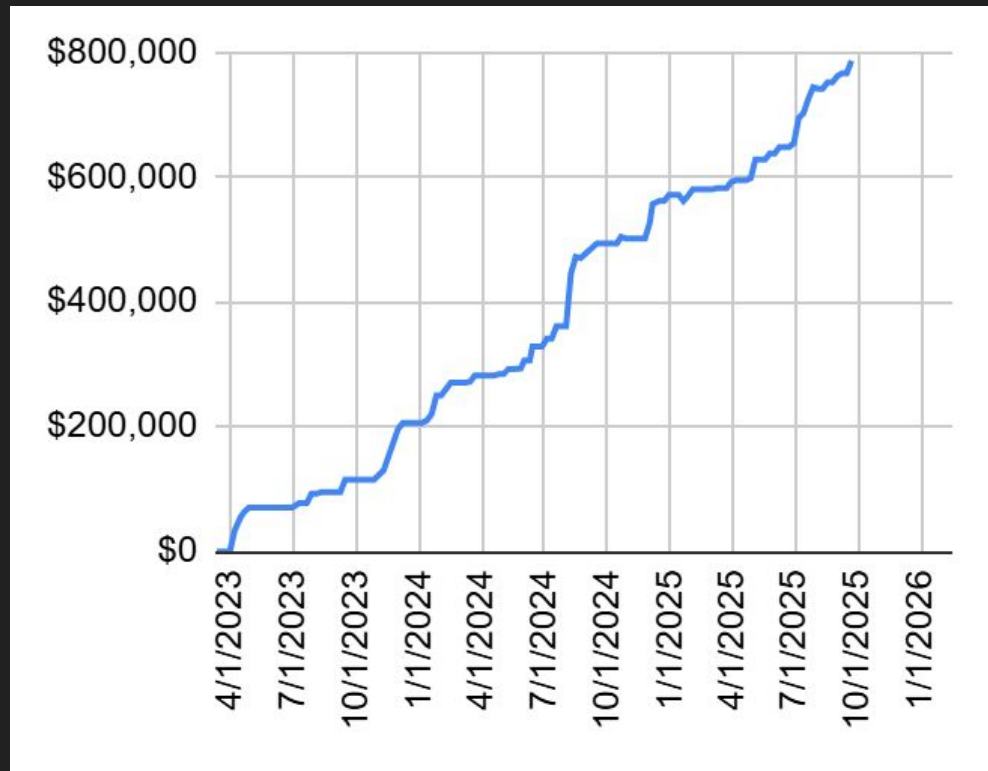
Show 100 ▾ entries		Search: <input type="text" value="priem"/>	
Year ▾	Funder ▾	Title	Funded ▾
2020	Arcadia, a charitable fund of Lisbet Rausing and Peter Baldwin	Suite of interconnected OurResearch tools by Jason Priem and Heather Piwowar	Yes
2018	Wellcome Trust	Open, complete, disambiguated database of authorship metadata in biomedicine by Heather Piwowar and Jason Priem	No
2018	Arcadia, a charitable fund of Lisbet Rausing and Peter Baldwin	Impactstory search engine for laypeople by Jason Priem and Heather Piwowar	Yes
2017	Canadian Social Sciences and Humanities Research Council (SSHRC)	Moving beyond mandates: Finding new ways of increasing open access by Juan Pablo Alperin, Heather Piwowar, and Jason Priem	No
2017	Robert Wood Johnson Foundation (RWJF)	The oaBoost dashboard: Motivating OA from a researcher-centric perspective by Heather Piwowar and Jason Priem	No
2016	Alfred P. Sloan Foundation	Improving the visibility of scholarly software work by James Howison, Heather Piwowar, and Jason Priem	Yes
2016	Arnold Foundation	Motivating openness with the Impact Report Card by Heather Piwowar and Jason Priem	No
2016	Arnold Foundation	Tear down this wall: building the Open Research Profile by Heather Piwowar and Jason Priem	No
2013	U.S. National Science Foundation (NSF)	Investigating the value of automatically-gathered software impact data by Heather Piwowar and Jason Priem	Yes
2013	Alfred P. Sloan Foundation	ImpactStory Grant Proposal by Heather Piwowar and Jason Priem	Yes
2013	Alfred P. Sloan Foundation	ImpactStory grant proposal by Jason Priem and Heather Piwowar	Yes
2011	Sloan Foundation	Total-impact by Heather Piwowar and Jason Priem	Yes

Showing 1 to 12 of 12 entries (filtered from 290 total entries)

Previous Next

OpenAlex ARR

Annual recurring revenue
from OpenAlex Premium
subscriptions,
April 2023 to Sept 2025



Contingencies

- Intro
- Sustainability
 - structure
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 - funding
 - **contingencies**
- Conclusion

Contingencies

What happens if we...

- Go broke
- Get bought
- get "Trumped"
- Become evil
- Get hit by a bus
- Get bored

Q&A

- Intro
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