

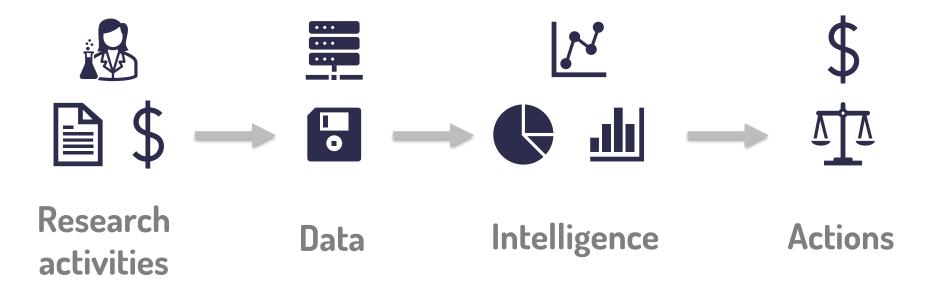
Understanding your University's research

Today's Agenda

Overview

- OpenAlex & Research Intelligence
- Institutional Use Cases
- the basics in OpenAlex
- common analyses for institutions
- A&Q

Research intelligence: overview

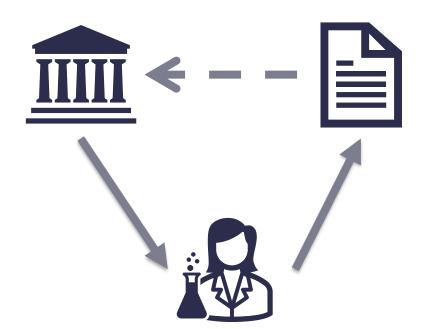


Research intelligence: University use cases

Research strategy
Reporting & compliance
Opportunity matching
Grant-writing

What research do we do?
Does our work advance SDGs?
Is there potential for interdisciplinary teams?
How are we progressing towards our OA goals?
How do we compare to our peers?
Who might be a good collaborator?
Which of our researchers work on a topic?
How can we demonstrate leadership in a field?

Research intelligence: the foundational challenge



Institutions don't get data on their research outputs.

They can't get data on comparator institutions.

OpenAlex indexes works & associated metadata

Concepts [65k] Publishers [10k] **Works** [245M]



OpenAlex as your research intelligence solution:

- -It's Big.
- -It's Open.
- -It's Easy.

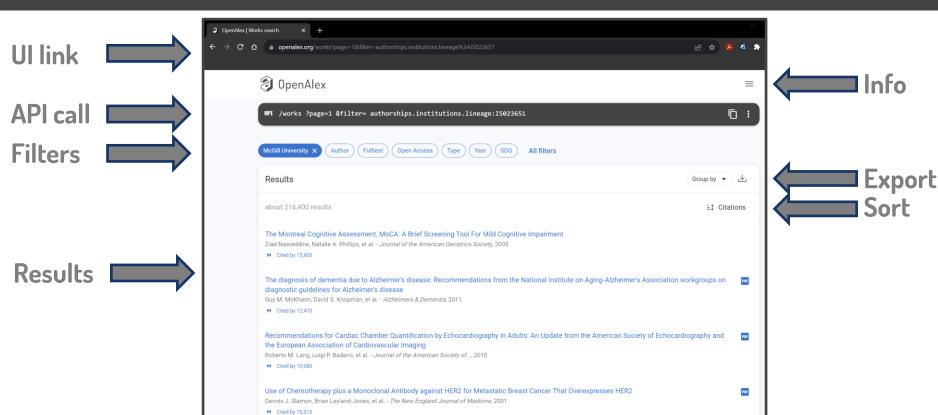
Research intelligence: Filter & Group by



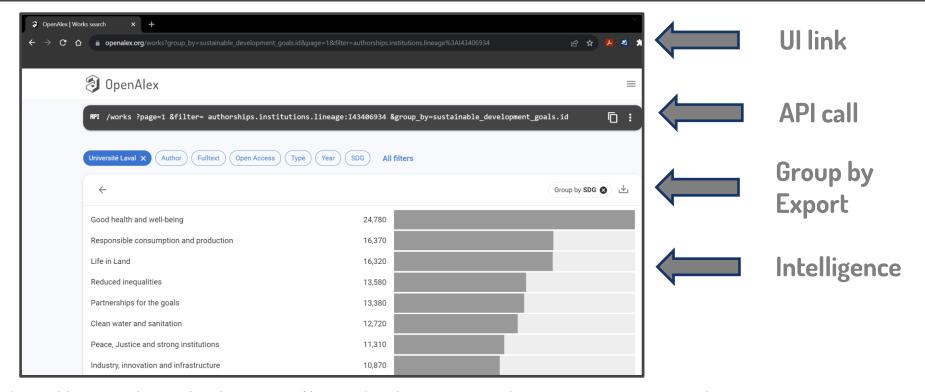
Finding your institution's work

All works Logic layer Results Filter: The Montreal Cognitive Assessment, MoCA: A Brief Screening Tool For Mild Cognitive Impairment Ziad Nasreddine, Natalie A. Phillips, et al. - Journal of the American Geriatrics Society, 2005. he diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzhein agnostic quidelines for Alzheimer's disease Institution Suy M. McKhann, David S. Knopman, et al. - Alpheimers & Dementia, 2011 Jse of Chemotherapy plus a Monoclonal Antibody against HER2 for Metastatic Breast Cancer That Overexpresses HER2 ommendations for Cardiac Chamber Quantification by Echocardiography in Adults; An Update from the American So e European Association of Cardiovascular Imaging berto M. Lang, Luigi P. Badano, et al. - Journal of The American Society of ... 2015 Find & select RoB 2: a revised tool for assessing risk of bias in randomised trials onathan A C Sterne, Jelena Savović, et al. - BMJ, 2019 99 Cited by 8,628 your institution tatistical parametric maps in functional imaging: A general linear approach Carl J. Friston, Andrew P. Holmes, et al. - Human Brain Mapping, 1994 ** Cited by 8,584 lanck2015 results

Finding your institution's works



Intelligence on your institution's work



https://api.openalex.org/works?page=1&filter=authorships.institutions.lineage:**I43406934**&group_by=sustainable_development_goals.id



Common research intelligence use cases

Use Case	Filters	Group by	Consider additional filters
Showcasing research outputs	Institution	Open Access Source / Work Type	Year(s)
Understanding your contributions to topics	Your institution	Sustainable Development Goals	Open Access
Identifying collaborators	Institution	Institution or Institution (corresponding)	Authors Count Year(s)
Understanding collaborations	Institution (A) AND Institution (B)	SDGs / Concepts Year(s)	Source type Institution type
Benchmarking	SDG / Concept	Country, Institution, and/or Author	Country, and/or Institution Type
Find researchers working on a topic	Concept / SDG or Search terms	Researcher	Year(s) and/or Country
Monitoring progress on Open Access goals	Institution [AND 0A]	OA; Year [Source; Authors]	Funders 12 OpenAlex

Showcasing outputs ex: Open Access over time

How have our OA practices changed in the last decade?

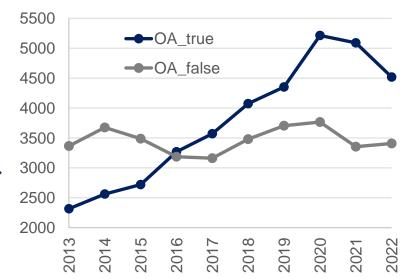
Filters:

- Institution: University of Arizona
- Open Access: true/false
- Source type: journal



Publication year





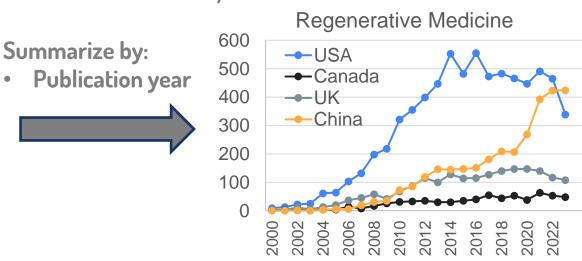
https://api.openalex.org/works?page=1&filter=authorships.institutions.lineage:l138006243,open_access.is_oa:true, primary_location.source.type:journal&group_by=publication_year

Benchmarking countries ex: Regenerative Medicine

How do countries compare in their publications relating to Regenerative Medicine over the past decade?

Filters:

- Concept: Regenerative Medicine
- Source type: journal
- Work type NOT: paratext
- Year: >2000
- Country: CA, US, UK, CH



https://api.openalex.org/works?page=1&filter=concepts.id:C10854531,primary_location.source.type:journal,type:!paratext,publication_year:2000-,institutions.country_code:CA&group_by=publication_year

Peer intelligence ex: SDG Contribution Profiles

How do our SDG contributions compare to peers?

Filter:

- Institution: University of Alberta
- Year: 2010-

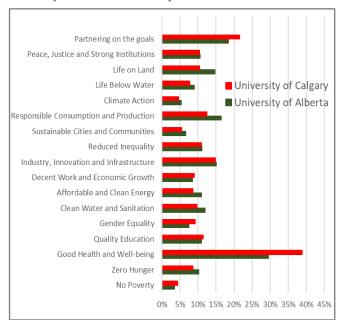
Filter:

- Institution: University of Calgary
- Year: 2010-

Summarize by:

SDGs [Sustainable Development Goals]





https://api.openalex.org/works?page=1&filter=publication_year:2010-,authorships.institutions.lineage:1168635309&group_by=sustainable_development_goals.id

Finding experts ex: kelp forest researchers

Finding all the kelp forest researchers to organize a knowledge synthesis project.

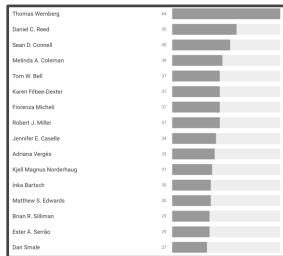
Filters:

- Search terms: kelp forest
- Source type: Journal
- Year: 2013-

Summarize by:

Author





https://api.openalex.org/works?page=1&filter=default.search:kelp+forest,primary_location.source.type:journal, publication_year:2013-&group_by=authorships.author.id

Finding institutions ex: Gender Equality in medicine

Which insitutions in New Zealand are working on Gender Equality work in medicine?

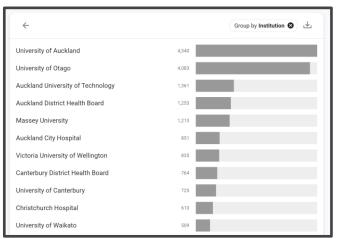
Filters:

- SDG: Gender Equality
- Concept: 'medicine' <u>or</u> 'family medicine'
- Country: New Zealand
- Authors count: 1-10

Summarize by:

Institution





https://api.openalex.org/works?page=1&filter=**sustainable_development_goals.id**:https://metadata.un.org/sdg/5,**concepts.id**:C71924100lC512399662,**institutions.country_code**:NZ,**authors_count**:1-10



Understanding collaborations ex: UCLA-UBC

Where are collaborations between UCLA and UBC published most frequently?

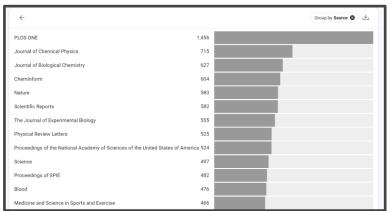
Filters:

- Institution: UCLA and UBC
- Work type: article
- Source type: journal
- Authors count: 1-10

Summarize by:

Source



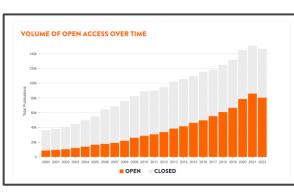


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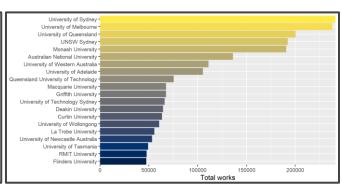
Advanced use cases

Open APIs allow for limitless additional analyses

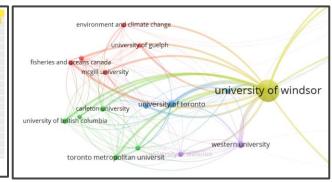
RI dashboards



RI analyses in R



VOSviewer without downloading



https://open.coki.ac/country/CAN/

https://docs.ropensci.org/openalexR/

https://www.vosviewer.com/

Institutional data curation

Coming soon.

text file guides walking through best practices for identifying errors templates for submitting data curation requests

Call for collaborations.

want to increase your institution's data accuracy and help us make a process that scales? we're looking for a few librarians to collaborate. Let us know if that's you!

Quick-hit tutorials coming soon. Have use cases you want highlighted?

https://openalex.org/feedback