

# Agenda

- Nature Index
  - Nature Index
  - Data in Nature Index
- Nature Index Project
  - Project Scope
  - Project Phases
  - Dashboard Insights
- Feedback and Next Steps
  - Stakeholder Feedback
  - Learning and Next Steps

# I. Nature Index | Definition & Application

The Nature Index is primarily a free database of author affiliation information that reveals global publication and collaboration patterns.

- It captures all author affiliation information of primary research articles published within a group of selected journals (n=82).
- It stores whole article counts (Count) and fractional article counts (Share) for each article.

Nature Index releases a set of country- and institutional-level tables based on counts of high-quality research outputs in the previous calendar year.

• Fields of Research: Chemistry, Life Sciences, Physical Sciences, Earth & Environmental Sciences.

## Track top papers. Explore collaborations. Compare research performance.

Free, quick and simple access to your institution's current research profile.

Using the Nature Index
Source: Nature Index



# I. Nature Index | Data in Nature Index

#### Data in the Naure Index:

- Updated periodically.
- Available for only a rolling 12-month period.
- Article-level information is available.

### Profile Page of the University of Rochester:

- Data Range: Nov 2020 Oct 2021
- Articles can be displayed by journals and then articles.

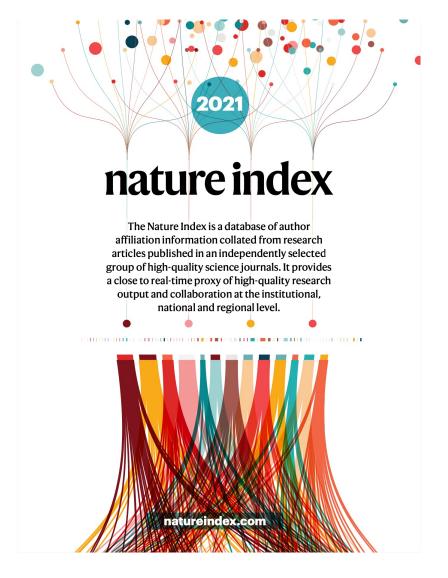
### Data could be incomplete:

- A time lag between when your article is published and when it is added to the Nature Index.
- Articles may be missed due to technical issues.

#### **University of Rochester (UR)**

United States of America (USA) Collaboration Research DATE RANGE: 1 November 2020 - 31 October 202 50 93% Domestin (III) nublished between 1 November 2020 - 3 October 2021 which are tracked by the Nature for each subject. Below, the same research outputs are grouped by subject. Click on the subject to drill-down into a list of articles organized by journal, and then by title. Life Sciences University of Rochester (UR), United States of America (USA Physical Science Earth & Environmental Scien Share output for the past 5 years

Nature Index Profile Page of University of Rochester ()
Source: Nature Index



# Nature Index Project

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# II. NI Project | Project Scope

Goal: Understand how the University of Rochester is represented in high quality research journals.

Journals	What are the journals selected by Nature Index? Which journals are our researchers publishing in?
Publications	How many publications does UofR have in the selected journals?  How does the number of papers change over time?
Researchers	Who are the authors of those articles?  Are they primary authors?
Open Access	Do the selected journals provide open access options? What types of open access articles do we have?
Funders and Research Organizations	Who and where are the funders? Who and where are the collaborating research orgs, in terms of authorship?



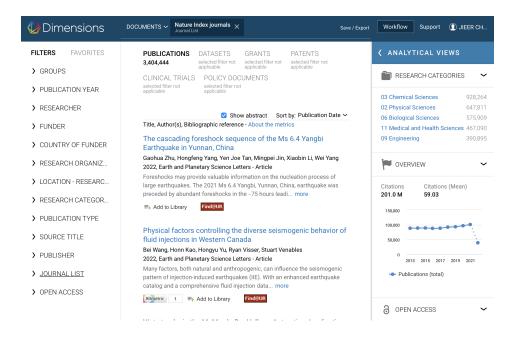
# II. NI Project | Project Scope

### Pilot Project

 Field of Research: Earth and Environmental Sciences (EES)

#### Data Sources and Information

- Scopus (CY2011 Aug CY2021): Publications, Open Access, Authors. Query by journal title
- Dimensions (CY2011 CY2020): Funder, Research Organizations, Geolocation.
   Searched using NI filter



The "Nature Index journals" filter under "Journal List" in Dimensions
Source: Dimensions



# II. NI Project | Project Phase 1

### Analysis

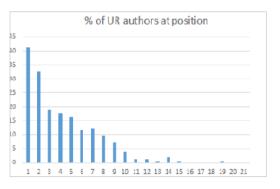
- Start with Scopus Data
- Spreadsheet Analysis
- Google doc Report
- Not very interactive & Too much information

#### Communication

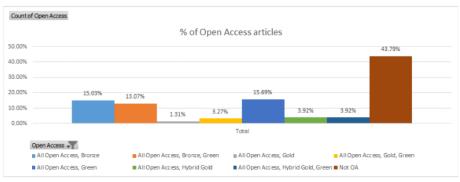
- EES Department Chair
- Fmail conversations
- Introduction to Nature Index

#### **Timeline**

• 3 months (Aug '21 – Oct '21)







Graphics & Tables from the Google Doc Report Source: RCL NI Project

# II. NI Project | Project Phase 2

### Analysis

- Scopus Data & Dimensions Data
- Spreadsheet Analysis
- Translated into Tableau dashboards

#### Commnication

- STEM Librarians: prepared slides for a deep dive into the dashboard
- EES Department Chair: Share dashboard with faculty via email

#### Timeline:

• 3 months (Oct '21 – Dec '21)



Initial Dashboards Source: RCL NI Project

# II. NI Project | Project Phase 3

### Analysis

 Modified dashboards based on feedback, e.g. merged some OA categories in Scopus data

#### Communication

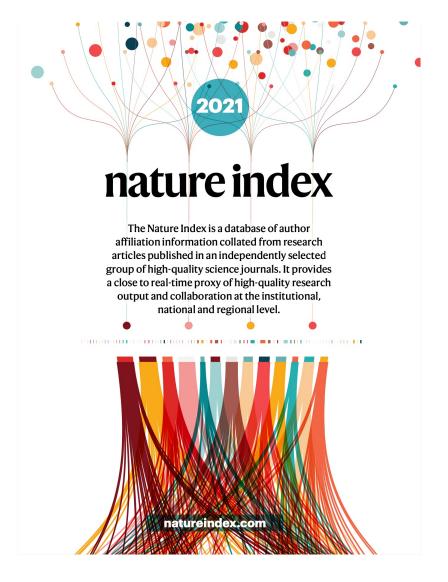
- Library Leadership and University Institutional Research: prepared slides for a deep dive into the dashboard
- EES Department Chair: Dashboard deep dive over Zoom

#### Timeline:

• 2 months (Feb '22 – Mar '22)



Finalized Dashboard Design Source: RCL NI Project

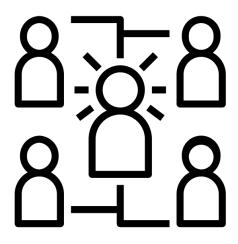


## Feedback and Future Plans

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# III. Feedback | STEM Librarians



Artist: Sumit Saengthong Source: Noun Project

### Helpful to know where our researchers publish

- Which journal is getting the most citations
- Does this align with our internal usage data

### Helpful for pursuing transformative agreements

- Is Open Access being embraced by my department
- Trend in different types of Open Access

### Skepticism/nervousness around funding data

- Possible sensitivity around interpretation of our intent
- With multiple researchers, cannot identify who received the grants
- Not very useful if researchers aren't eligible for a grant, e.g., federal grants in other countries

# III. Feedback | Academic Department Chair



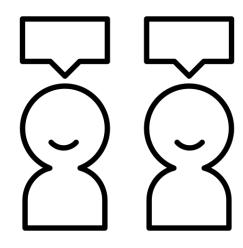
#### Feedback on the dashboards

- Asked to walk through the dashboard
- List of journals in Nature Index is good but doesn't cover 100% of the "top" journals (also subjective)
- Useful to show publication growth to senior leadership, with new faculty joining over the past few years
- Interested in the growth in Open Access publishing

### Future developments

- Comparing the department's performance in Nature Index with other metrics. E.g., we rank much higher in Academic Analytics
- A normalized comparison with other UR departments, also comparing with other universities

# III. Feedback | Library & University Leadership



Artist: Made X Made

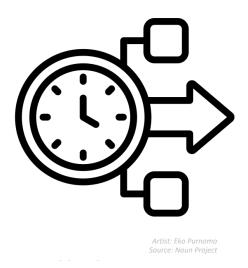
#### Feedback on the dashboards

- Good to show department chair multiple data sources
- Might create some noise due to discrepancies between data in dashboards and other tools/sources
- Ideas on revealing trends of "Share" metric and repeating co-authorship and collaborating research organization

### Future developments

- Comprehensive dashboards that can answer a good set of questions for different audience groups
- Proactively choosing the data we want to show, also consider department chairs' feedback
- Suggestions on the subjects to work on, the academic department chairs to work with, and the units to collaborate with

## III. Future Plans



#### Short-term Goals

- Content: add the trend of the Nature Index metric "Share" to the dashboard
- Journal List: expand the journal list to include other high quality EES journals suggested by the EES department head

### Long-term Goals

- Content: identify repeating co-authors and their affiliation
- Journal List: Nature Index, UofR researchers commonly publishing and citing, Journals where others citing us in
- Collaboration: identify potential collaborators to work on the dashboards

