Agenda

Your Questions

What is Dimensions?
Overview of contents

Publication Record features

Brief orientation

IN THE PLATFORM
- Identify evidence of international collaboration
- Visualize collaboration networks
- Discover potential collaborators

Look for potential funders for my research
Spot trends within funding organizations
Uncover international sources of funding
YOU ASKED

How can I use Dimensions to help students?

How can I assist teaching faculty with their research?

How can I look at UNLV scholarship as a whole, or look at scholarship coming from all library faculty?

What does Dimensions do?

What does Dimensions capture? What can’t it capture?
A linked, categorized and disambiguated database of:

- Publications
- Awarded Grants
- Patents
- Clinical Trials
- Policy Documents

**WHAT IS DIMENSIONS?**

<table>
<thead>
<tr>
<th>PUBLICATIONS</th>
<th>GRANTS</th>
<th>PATENTS</th>
<th>CLINICAL TRIALS</th>
<th>POLICY DOCUMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>98,685,332</td>
<td>4,333,072</td>
<td>37,534,248</td>
<td>446,881</td>
<td>385,519</td>
</tr>
</tbody>
</table>

Title, Author(s), Bibliographic reference - About the metrics

**Conditional cash transfers to prevent mother-to-child transmission in low facility-delivery settings: evidence from a randomised controlled trial in Nigeria**

Jenny X. Liu, Jennifer Shen, Nicholas Wilson, Svetla Janumpalli, Patrick Stadler, Nancy Padian

2019, BMC Pregnancy and Childbirth - Article

Altmetric 14
View PDF
Add to Library
Add to ORCID
PUBLICATIONS currently

- Journal articles, pre-prints, conference proceedings and books/book chapters
- Over 98 million records based on metadata
- Metadata and citations derived from multiple available databases
- OA tagging
- Over 1 Billion citations
GRANT DATA currently

- Project funding
- Over 4.1M grants, from ~300 funders globally
- $1.3 trillion of funding
- Sourcing
  - Direct relationships with funders
  - Data available via APIs
  - Data available via websites which we crawl
PATENT DATA currently

- US
- EP
- WIPO
- DE
- CA
- IN
- AU
- GB
- FR
- Hong Kong
- Russia

...China & Japan are next
CLINICAL TRIAL data currently

ClinicalTrials.gov
EU-CTR
UMIN-CTR
ISRCTN
ANZCTR
CHICTR
NTR
GCTR
CTRI
CRIS

... with more in the pipeline
POLICY DOCUMENTS currently

Over 380,000 policy document records, linked to publication records

Including but not limited to:
- World Health Organization
- World Bank
- Food & Agriculture Organization of the UN
- National Academies Press
- Centers for Disease Control & Prevention
- Publications Office of the European Union
- Government of the United Kingdom
- National Bureau of Economic Research
- Economic Policy Institute
HOW DO WE CAPTURE A BETTER, GLOBAL PICTURE OF RESEARCH?

Pre-publication:
- 1-5 years from grant to publication

Post-publication:
- immediate
- 2-3 years
- years
- years
- decades

Grants
Research
Conferences
Data sets
Publications
Tweets
Blogs
Citations
Clinical Trials
Patents
Policy docs
LINKS TO CONNECTED CONTENT
- Publication references
- Citing publications
- Supporting grants
- Patents that reference the publication
- Clinical trials that reference the publication
- Policy documents that reference the publication

EXPORT/SHARE
- Search results to excel
- Search results for bibliometric mapping in VOS Viewer and CiteSpace (free software)
- Records to BibTex and RIS formats
- Share to social media or via email

INTEGRATION with ORCID
- Claim publications to add to an ORCID profile

ACCESS ARTICLES WITHIN THE PLATFORM
- Wherever possible, an enhanced pdf is provided
DIMENSIONS DETAILS PAGES

- Context for citations, including:
  - Total citations
  - Recent citations (within the past two years)
  - RCR – Relative Citation Ratio (when applicable)
  - FCR – Field Citation Ratio
  - Citations over time (graph)
  - Field of research of citing publications

ALTMETRIC DETAILS PAGES

- Direct links to news stories, blog posts, social media mentions, F1000 mentions, and other online attention to the publication
- Context for Altmetric score
O R I E N T A T I O N

Top tips

Create a Dimensions account

Filters
Function similar to fields in an advanced search, applicable to content type

Three ways to search
Full data, title and abstract, and abstract search

Compare
Remove any organizational or funder filters from your search bar before proceeding
C O L L A B O R A T I O N

Identify evidence of international collaboration
Q1. Over the past five years, how many publications have UNLV researchers co-authored with researchers in China?
Q2. With which Chinese organizations did UNLV researchers collaborate most frequently over the past five years?

- Peking University (PKU)
- China University of Geosciences (CUGB)
- Sichuan University (SCU)
Q3. In which research areas have UNLV researchers most frequently collaborated with researchers from Peking University over the past five years?

<table>
<thead>
<tr>
<th>Name</th>
<th>Publications</th>
<th>FCR Mean</th>
<th>RCR Mean</th>
<th>Altmetric Mentions Mean</th>
<th>Altmetric Mentions Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry and Cell Biology</td>
<td>11</td>
<td>1.17</td>
<td>0.76</td>
<td>72.7</td>
<td>1.0</td>
</tr>
<tr>
<td>Astronomical and Space Sciences</td>
<td>8</td>
<td>4.04</td>
<td>0.08</td>
<td>87.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Other Physical Sciences</td>
<td>4</td>
<td>2.19</td>
<td>0.00</td>
<td>50.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Physical Chemistry (incl. Structural)</td>
<td>4</td>
<td>4.21</td>
<td>0.62</td>
<td>100.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>
Collaboration

Visualize collaboration networks
Q4. How can I visualize UNLV’s collaborations in Materials Engineering over the past five years?

VOSviewer

Free software download available at Vosviewer.com

Welcome to VOSviewer

VOSviewer is a software tool for constructing and visualizing bibliometric networks. These networks may for instance include journals, researchers, or individual publications, and they can be constructed based on citation, bibliographic coupling, co-citation, or co-authorship relations. VOSviewer also offers text mining functionality that can be used to construct and visualize co-occurrence networks of important terms extracted from a body of scientific literature.
Start with desired result set & export for bibliometric mapping

Download file and extract .csv from .zip - rename to find easily
A4. VOSviewer output
(screenshots of dynamic visualizations)
COLLABORATION

Discover potential collaborators
Q5. Who are the most prolific researchers over the past five years in Materials Engineering with whom I might seek to collaborate?

<table>
<thead>
<tr>
<th>Name</th>
<th>Publications</th>
<th>FCR Mean</th>
<th>RCR Mean</th>
<th>Altmetric...</th>
<th>Altmetric...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wei Huang</td>
<td>351</td>
<td>3.61</td>
<td>2.26</td>
<td>24.5</td>
<td>1.0</td>
</tr>
<tr>
<td>Nanjing University of Technology, China</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Takeshi Kanomata</td>
<td>281</td>
<td>0.03</td>
<td>0.00</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>Tohoku Gakuin University, Japan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jürgen Eckert</td>
<td>274</td>
<td>2.89</td>
<td>0.78</td>
<td>14.2</td>
<td>1.0</td>
</tr>
<tr>
<td>University of Leoben, Austria</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zhong Lin Wang</td>
<td>274</td>
<td>9.67</td>
<td>2.05</td>
<td>38.0</td>
<td>5.5</td>
</tr>
<tr>
<td>Georgia Institute of Technology, United States</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dierk Raabe</td>
<td>267</td>
<td>4.42</td>
<td>0.78</td>
<td>31.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Max Planck Institute for Iron Research, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lei Jiang</td>
<td>250</td>
<td>4.76</td>
<td>1.93</td>
<td>40.4</td>
<td>2.0</td>
</tr>
<tr>
<td>Beihang University, China</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Q6. Which researchers have secured the most funding over the next ten years in Materials Engineering, with whom I might seek to collaborate?

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization, Country</th>
<th>Grants</th>
<th>Funding period</th>
<th>Funding amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>P J Withers</td>
<td>University of Manchester, United Kingdom</td>
<td>5</td>
<td>2006 - 2023</td>
<td>USD 221.4 M</td>
</tr>
<tr>
<td>Martin Schröder</td>
<td>University of Manchester, United Kingdom</td>
<td>2</td>
<td>2006 - 2021</td>
<td>USD 173.0 M</td>
</tr>
<tr>
<td>Joseph V Minervini</td>
<td>Massachusetts Institute of Technology, United States</td>
<td>1</td>
<td>2012 - 2018</td>
<td>USD 133.5 M</td>
</tr>
<tr>
<td>Harry A Atwater</td>
<td>California Institute of Technology, United States</td>
<td>2</td>
<td>1988 - 2020</td>
<td>USD 95.0 M</td>
</tr>
<tr>
<td>Peter B Littlewood</td>
<td>Argonne National Laboratory, United States</td>
<td>1</td>
<td>2007 - 2021</td>
<td>USD 76.7 M</td>
</tr>
<tr>
<td>W M Rainforth</td>
<td>University of Sheffield, United Kingdom</td>
<td>3</td>
<td>2004 - 2023</td>
<td>USD 62.9 M</td>
</tr>
</tbody>
</table>
Look for potential funders for my research
Q1. Who are the top funders in Neurosciences globally with respect to grants active in the next five years?

<table>
<thead>
<tr>
<th>Organization</th>
<th>Grants</th>
<th>Funding amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Institute of Neurological Disorders and ...</td>
<td>2,021</td>
<td>USD 2.7 B</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institute on Aging (NIA)</td>
<td>880</td>
<td>USD 2.4 B</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institute of Mental Health (NIMH)</td>
<td>1,018</td>
<td>USD 1.7 B</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Eye Institute (NEI)</td>
<td>386</td>
<td>USD 725.0 M</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institute on Deafness and Other Commun...</td>
<td>401</td>
<td>USD 706.3 M</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Research Council (ERC)</td>
<td>314</td>
<td>USD 697.2 M</td>
</tr>
<tr>
<td>Belgium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institute on Drug Abuse (NIDA)</td>
<td>355</td>
<td>USD 496.3 M</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Q2. How do the top funders in Neurosciences compare with respect to grants active in the next five years?
Spot trends within funding organizations
Q3. What percentage of the NIA’s overall budget was devoted to Neurosciences in 2017? Did this percentage decrease in 2018?
Uncover potential international sources of funding
Q4. What is an example of an international funder whose overall budget and amount awarded to Neurosciences increased from 2017 to 2018?
OPEN SESSION

What would YOU like to do?
Dimensions gives you a global view of data beyond your institution that enables you to both expand your resources and access this information in one place.

We’d be happy to explore further how Dimensions can assist with your specific needs.

Thank you!