New discovery, analyses, and access
A modern take on research indexing

ICSTI London
September 2018

A new take; Grants, publications, citations, clinical trials patents, and policy documents in one place.
We had some questions. And some concerns.

- Why only discover research via publications and citations? Why not also look at the funding?
- Why not patents, conference proceedings, clinical trials? It does seem relevant for discovery and impact assessment.
- Why is data still siloed?
- Why are basic bib metadata and citations not free?
- Why is fulltext not indexed for better discovery? And why isn’t it accessed immediately during discovery?
- Why do suppliers develop metrics? Why don’t the community itself?
- Why isn’t the academic reward system evolving faster?

Setting out, we wanted to not make a me-too product. It had to be sustainable. And community driven.
Six Digital Science companies worked on answers:

- Altmetric
- Über Research
- Consultancy
- readcube
- SYMPLECTIC
- figshare
Allowing researchers and institutions to store, manage and publish research related data

A 4.2 M grants database, enrichment services and analytical application core

Tracking attention in news, social media and policy papers - as an immediate resonance

Institution disambiguation, 80k+ organisation IDs, openly available

Global patent database - more than 100M patent records

Research information management system - deep knowledge about institutional requirements for data and metrics

Serving publishers, access to +60M journal articles and books

They each had things to contribute
Offered important insights

- Actual needs in research discovery, administration, and management
- Needs within different disciplines
- Regional differences
- Best practices

... and so had +100 development partners
Together, we formed a vision

- To create a new research database
- Cannot be me-too
- Must democratise data – it is a precondition for innovation; of metrics, of the academic reward system, and more
- Provide a broader view on research - beyond pubs and citations
- Value rich context for discovery and research analyses
Data approach
The general approach to data in Dimensions

**Inclusive approach**

- We do not decide what is relevant research output
- Dimensions is open for data integration (within reason; e.g., no fraudulent journals)
- The user should decide what is relevant use-case by use-case
- We take the responsibility to enable that by providing the right tools
Data sourcing
1. Publication metadata backbone (96m)

- Journal articles, pre-prints and books/book chapters
- 97 million records based on metadata
- Metadata and citations derived from multiple available databases
- OA tagging
- Rule-based document type identification

PUBLICATIONS

JOURNALS / BOOKS
- Crossref
- PubMed
- Europe PMC

PRE-PRINT / OA
- bioRxiv
- arXiv.org
- ChemRxiv

Pipeline 2018/19

Initiative for Open Citations
2. Enrichment + full text index from full text (60m)

- Full text from direct relationships with >100 publishers
- 60m full text articles provides:
  - A full text search index with identified topics
  - Field classification at record-level (not journal level)
  - Missing citations
  - Linkages; related grants, publication references, related trials, related patents
Grants data (4.1m)

- Project funding
- 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

Dimensions checks all sources of grant data for new data each month. Individual funders may have individual update dates over the year. The grant data contained in the current release is detailed below.

**Funder**
- **ORCID ID**
- **Country**
- **# Grants**
- **Available Years**

- Japan Society for the Promotion of Science (JSPS)
  - 465521.34
  - Japan
  - 187,730
  - 2016 - 2017

- National Sciences and Engineering Research Council (NSERC)
  - 4257971.9
  - Canada
  - 232,915
  - 2011 - 2016

- Russian Foundation for Basic Research (RFBR)
  - 402899.3
  - Russia
  - 178,839
  - 2015 - 2017

- National Natural Science Foundation of China (NSFC)
  - 418446.3
  - China
  - 163,809
  - 2014 - 2016

- German Research Foundation (DFG)
  - 410193.6
  - Germany
  - 109,915
  - 2014 - 2017

- European Commission (EC)
  - 417093.9
  - Belgium
  - 102,924
  - 2014 - 2018

- National Institutes of Health (NIH)
  - 408692.1
  - United States
  - 88,159
  - 2013 - 2018

- German Research Foundation (DFG)
  - 410193.9
  - Germany
  - 109,915
  - 2014 - 2017

- Swiss National Science Foundation (SNF)
  - 416588.3
  - Switzerland
  - 86,893
  - 2015 - 2018

- National Institute of Allergy and Infectious Diseases (NIAID)
  - 424712.3
  - United States
  - 36,320
  - 2017 - 2018

- National Institutes of Health (NIH)
  - 418446.3
  - United States
  - 163,809
  - 2014 - 2016

- São Paulo Research Foundation (FAPESP)
  - 418446.3
  - Brazil
  - 38,862
  - 2014 - 2018
Patent data (36m)

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

...China will be the next to be added.
Clinical Trial data (429k)

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

... and more are coming
Over 360,000 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 Technology Creates Markets: Trends and Examples for Private Investors in Emerging Markets
2018, World Bank

Does Employing Workers or Accepting Work Pay? Analyzing Labor Costs in South Africa
2018, World Bank

Systemic, Sectoral Risk and the Myth of a Corporate Savings Glut
2018, World Bank

Transforming Microfinance Institutions in the Arab World: Opportunities, Challenges and Alignment of Interest
2018, World Bank

Norovirus: weekly national report for weeks 27 to 30 (9 August 2018)
2018, Government of the United Kingdom
Links between the content types

- **Publications**
  - Publication references
  - Publication citations
  - Supporting grants
  - Patent citations
  - Linked clinical trials

- **Grants**
  - Resulting publications
  - Resulting patents
  - Resulting clinical trials

- **Patents**
  - Patent references
  - Publication references
  - Supporting grants
  - Patent citations

- **Clinical trials**
  - Linked publications
  - Supporting grants
The result is the new Dimensions database
The result can be viewed on a timeline

- Pre-publication: 1-5 years from grant to publication
- Post-publication:
  - Immediate
  - 2-3 years
  - Years
  - Years
  - Decades
The result can be viewed by its links.
Wonder about coverage? Get a free DOI analysis

Request analysis for your university
Send DOI list (nothing else)
Receive detailed coverage report

How many on your list is in Dimension
How many not
How in Dimensions not on your list

What did we find?
The below information indicates the results of the analysis, and the accompanying spreadsheets which contain this information for your further analysis if desired.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOIs in your original list</td>
<td>13,894</td>
</tr>
<tr>
<td>Number of these publications found in Dimensions</td>
<td>13,579 (97.73%)</td>
</tr>
<tr>
<td>Number of these publications not in Dimensions</td>
<td>319 (2.27%)</td>
</tr>
</tbody>
</table>
This is what it looks like
Identification of Plasmodiophora brassicae effectors — A challenging goal
Edel Pérez-López, Matthew Waldner, Musharaf Hossain, Anthony J. Kusalik, Yangdou Wei, Peta C. Bonham-Smith...
2018, Virulence - Article

Galleria mellonella - a novel infection model for the Mycobacterium tuberculosis complex
Yanwen Li, John Spiropoulos, William Cooley, Jasmeet Singh Khara, Camilla A Gladstone, Masanori Asai, Janine ...
2018, Virulence - Article

Spontaneous point mutations in the capsule synthesis locus leading to structural and functional changes of the capsule in serogroup A meningococcal populations
Emma Ispasanie, Francesca Micoli, Araceli Lamelas, Dominique Keller, Francesco Berti, Riccardo De Riccio, Robe...
2018, Virulence - Article

Autophagy enhances the replication of Peste des petits ruminants virus and inhibits caspase-dependent apoptosis in vitro
Bo Yang, Qingsong Xue, Xuefeng Qi, Xueping Jia, Shuying Chen, Ting Wang, Tianxia Xue, Jingyu W...
2018, Virulence - Article

Replacing the 238th aspartic acid with an arginine impaired the oligomerization activity and inflammation-inducing property of pyolysin
Wenlong Zhang, HaiLi Wang, Bing Wang, Yue Zhang, YunHua Hu, Bo Ma, Junwei Wang
Metrics
<table>
<thead>
<tr>
<th><strong>Metrics in Dimensions so far</strong></th>
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<tbody>
<tr>
<td><strong>Times cited</strong></td>
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<tr>
<td>Number of times a publication was cited by other publications</td>
</tr>
<tr>
<td><strong>Altmetric</strong></td>
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<tr>
<td>Online mentions in social media, blogs, news outlets, policy documents, wikipedia</td>
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<tr>
<td><strong>RCR</strong></td>
</tr>
<tr>
<td>Relative citation Ratio - quantifies the influence of a research article by using its co-citation network to field-normalize the number of citations it has received</td>
</tr>
<tr>
<td><strong>FCR</strong></td>
</tr>
<tr>
<td>Field Citation Ratio compares an article’s citations against articles of similar age and in a similar subject area</td>
</tr>
<tr>
<td><strong>Highly cited</strong></td>
</tr>
<tr>
<td>Indicator of strong citation - normalized for subject area, age and publication year</td>
</tr>
<tr>
<td><strong>Citation recency</strong></td>
</tr>
<tr>
<td>Shows the number of citations received by an article in the last two years</td>
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</tbody>
</table>
## Metrics in Dimensions so far

<table>
<thead>
<tr>
<th>Metric</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR</td>
<td>Annual citation rate - The average number of citations received in a year, to articles previously published</td>
</tr>
<tr>
<td>SNIP/SJR</td>
<td>Field-normalized journal metrics, calculated by CWTS and Scimago Research Group</td>
</tr>
<tr>
<td>H-index</td>
<td>Author-level metric to measure both productivity and citation impact of the publications of a researcher</td>
</tr>
</tbody>
</table>
Innovate

- Invent your own metrics
  - Example: RCR with NIH
  - Example: PGI (publications per active grant)
Other messages
Dimensions application overview

Dimensions
- 97M publications
- 1B citations
- Context to grants, patents and trials on article level
- Free to use at no cost for individual researcher
- Download 500
- Article-level Altmetric data

Dimensions + Free

Dimensions + Plus
- All ‘Dimensions’ and ...
- Additional databases
- For research grants, patents and trials fully integrated and searchable
- Download 5,000
- SSO
- Full Altmetric badges/aggregated metrics

Dimensions + Analytics
- All ‘Dimensions Plus’¹ and ...
- Workflow support for funder/publisher (reviewer identification and management, coding support)
- Download 50,000
- Additional analytical views
- Additional filters
... coming in 2018!

Access OA articles
Access OA publications

Anywhere Access
Access open access publications and full text licensed by university

Citations: Dimensions Badges and Metrics API - openly available

Custom implementations / Consultancy services using Dimensions data and tools

¹ Full Altmetric badges/aggregated metrics for academic institutions or Altmetric EFI license - otherwise article-level Altmetric badges

Search/analyze
Full flex data analysis with domain specific search language

Data
Feed for internal systems

Enrichment APIs
(to be used in custom implementations)
About the free version

Account not required

Dimensions is making publication and citation data available in a free web app

Start using it today at app.dimensions.ai
Free Badges and Metrics API

Dimensions is making publication and citation data available - also via badges and as an open metrics API.

Start using it today at badges.dimensions.ai.
The Dimensions API

Powerful API - designed to allow flexible use of the enriched data

- Use without constraints for internal purposes
- Use data outside of the web-app; e.g. in admin systems or analytical software
- Querying language made and documented specifically for new Dimensions
Anywhere Access

An add-on module to Dimensions, the Anywhere Access module offers instant single-click access to:

1. Open Access articles
2. Articles subscribed to with publishers

Anywhere Access works with the organization’s own subscription holdings via EZProxy integration and SSO authentication.

Some limitations still exist; e.g. only works with full collections, does not work with aggregators.
Effect of end group of amorphous perfluoro-polymer electrets on electron trapping
Seonwoo Kim, Kuniko Suzuki, Ai Sugie, Hironuki Yoshida, Masafumi Yoshida, Yuji Suzuki
2018, Science and Technology of Advanced Materials - Article

Quantitative analysis of \{332\} \{113\} twinning in a Ti-15Mo alloy by in situ scanning electron microscopy
Ivan Gutierrez Urritia, Cheng-Lin Li, Xin Ji, Satoshi Emura, Koichi Tsuchiya
2018, Science and Technology of Advanced Materials - Article

Development of permanent magnet MnAlC/polymer composites and flexible filament for bonding and 3D-printing technologies
Ester M. Palmero, Javier Rial, Javier de Vicente, Julio Camarero, Björn Skårmann, Hilmar Vidarsson, Per-Olof Larss...
2018, Science and Technology of Advanced Materials - Article

Bending impact on the performance of a flexible Li4Ti5O12-based all-solid-state thin-film battery
Alfonso Sepúlveda, Jan Speulmanns, Philippe M. Vereecken
Effect of end group of amorphous perfluoro-polymer electrets on electron trapping

Seonwoo Kim, Kuniko Suzuki, Ai Sugie, Hiroyuki Yoshida, Masafumi Yoshida and Yuji Suzuki

Department of Mechanical Engineering, The University of Tokyo, Tokyo, Japan;
Graduate School of Engineering, Chiba University, Chiba, Japan;
Molecular Chirality Research Center, Chiba University, Chiba, Japan;
Faculty of Liberal Arts and Sciences, Tokyo City University, Tokyo, Japan

ABSTRACT
Charge trap in amorphous perfluoro-polymer electret is studied, focusing on electron trap site and trap energy. Low-energy inverse photoelectron spectroscopy is adopted to measure solid-state electron affinity (EA) of cyclic transparent optical polymer (CYTOP). EA of CYTOP CTL-S is discovered by compensating the unwanted charge-up effect. Negatively-charged electret materials (polyethylene, ethylene-tetra-fluoro-ethylene, poly-tetra-fluoro-ethylene, and CYTOP) are analyzed by quantum mechanical calculation. Density functional theory with long-range correction is adopted to analyze orbital energies of single molecular systems. Intramolecular distribution of trapped electron and EA are investigated. Calculated electron affinities of CYTOP polymers with different end group are qualitatively in accordance with trapped charge stability measured with thermal stimulated discharge, signifying that electron affinities obtained with the present simulation can be used as an index of amorphous polymer electret.
Researchers can connect their ORCID record to Dimensions to help claim and showcase their published research with a simple, efficient process.

- Add publication information to your ORCID profile directly from Dimensions with a single click
- When available, publically available information is used to enrich research profiles
- ORCID records are also used to improve author disambiguation
Example: Anti-microbial Resistance
Mechanisms of Antimicrobial Peptide Action and Resistance
https://doi.org/10.1124/pr.55.1.2

Authors
Michael R. Yeaman - Harbor-UCLA Medical Center
Nannette Y. Youn - Harbor-UCLA Medical Center

Abstract
Antimicrobial peptides have been isolated and characterized from tissues and organisms representing virtually every kingdom and phylum, ranging from prokaryotes to humans. Yet, recurrent structural and functional themes in mechanisms of action and resistance are observed among peptides of widely diverse source and composition. Biochemical distinctions among the peptides themselves, target versus host cells, and the microenvironments in which these counterparts converse, likely provide for varying degrees of more

Publication references - 140
Sorted by: Date

Transcriptional Profile of the Escherichia coli Response to the Antimicrobial Insect Peptide Cecropin A
Robert W. Hong, Mikhail Shchepetov, Jeffrey N. Weiser, Paul H. Axelsen
2003, Antimicrobial Agents and Chemotherapy - Article

Synthetic Peptides That Exert Antimicrobial Activities in Whole Blood and Blood-Derived Matrices
Michael R. Yeaman, Kimberly D. Gank, Arnold S. Bayer, Eric P. Brass
2002, Antimicrobial Agents and Chemotherapy - Article

As much context as possible!
Aggregated funding amount: USD 3.8 B  
Average funding amount: USD 3.5 M
The funding trend for this topic
### Funders

related to your search

<table>
<thead>
<tr>
<th>Organization</th>
<th>Grants</th>
<th>Funding amount Aggregated</th>
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<tr>
<td>European Commission (EC)</td>
<td>26</td>
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<td>National Institute of Allergy and Infectious Diseases (NIAID)</td>
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<td>Wellcome Trust (WT)</td>
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<td>Defense Threat Reduction Agency (DTRA)</td>
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<td>The Research Council of Norway (RCN)</td>
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<td>Title</td>
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<td></td>
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<tr>
<td>---------------------------------------------------------------------</td>
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<tr>
<td>Acquisition of antimicrobial resistance by opportunistic pathogens</td>
<td>68,244 2017 - 2022</td>
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<td>The Royal Society</td>
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<tr>
<td>to Willem van Schaik</td>
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<td>Rapid microfluidic diagnostic tools for fighting antimicrobial</td>
<td>2017 - 2021</td>
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<td>resistance</td>
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<td>EPSRC</td>
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<tr>
<td>University of Nottingham and University of Birmingham -</td>
<td>160,923 2016 - 2020</td>
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<td>Antimicrobials and Antimicrobial Resistance</td>
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<td>Wellcome Trust</td>
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<td>to Jessica Gray</td>
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<td></td>
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<td>to Nicola Catherine Osborne</td>
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### Research Organizations

#### Aggregated

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<tr>
<th>University of Cambridge</th>
<th>Alzheimer's Research UK</th>
<th>GlaxoSmithKline</th>
<th>Imperial College London</th>
<th>Wellcome Trust</th>
<th>University of Oxford</th>
<th>University of South Wales</th>
<th>University of Birmingham - Antimicrobials and Antimicrobial Resistance</th>
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#### Columns

- Funding Amount
- Funders

#### Sort rows by:
- Default

#### Sort columns by:
- Default
- > 127K
- > 14M
- > 27M
- > 41M
- > 55M
- > 69M
Understanding the mechanisms and drivers of antimicrobial resistance

An inventory of supranational antimicrobial resistance surveillance networks involving low- and middle-income countries since 2000.
Elizabeth A Ashley, Judith Recht, Arlene Chua, David Dance, Mehul Dhordia, Nigel V Thomas, Nisha Ranganathan, Paul Turner, ... 2018, Journal of Antimicrobial Chemotherapy - Article

Ashley Bryce, Claire Costelloe, Mandy Wootten, Christopher C Butler, Alastair D Hay 2016, Journal of Antimicrobial Chemotherapy - Article

Mobile genetic elements in Neisseria gonorrhoeae: movement for change.
Ana Cehovin, Steven B Lewis 2017, FEMS Immunology & Medical Microbiology - Article
<table>
<thead>
<tr>
<th>Publications</th>
<th>Grants</th>
<th>Patents</th>
<th>Clinical Trials</th>
</tr>
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<tbody>
<tr>
<td>184,721</td>
<td>8,993</td>
<td>7,470</td>
<td>1,029</td>
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</tbody>
</table>

**PUBLICATIONS**

1. **METHODS AND SYSTEMS FOR MONITORING THE SEVERITY OF INFECTION IN A GROUP OF INDIVIDUALS**
   - ISIS INNOVATION, WYLLIE DAVID HAMILTON, WALKER ANN SARAH, SCHLACKOW IRYNA, CROOK DERRICK, PETO TIM - WYL...
   - Application WO - Filed year: 2012

2. **METHODS AND SYSTEMS FOR MONITORING THE SEVERITY OF INFECTION IN A GROUP OF INDIVIDUALS**
   - Oxford University Innovation Ltd - WYLLIE, DAVID HAMILTON, WALKER, Ann Sarah, SCHLACKOW, Iryna, CROOK, Derrick, PETO...

3. **METHODS AND SYSTEMS FOR MONITORING THE SEVERITY OF INFECTION IN A GROUP OF INDIVIDUALS**
   - Oxford University Innovation Ltd - David Hamilton Wyllie, Ann Sarah Walker, Iryna Schlackow
   - Application US - Filed year: 2012
Antimicrobial resistance and nosocomial infections at the Intensive Care Unit of the National Institute of Infectious and Tropical Diseases (NIITD), Hanoi: an observational study
University of Oxford

The Scrub Typhus Antibiotic Resistance Trial (START) Comparing Doxycycline and Azithromycin Treatment Modalities in Areas of Reported Antimicrobial Resistance for Scrub Typhus
University of Oxford

Understanding and Modelling Reservoirs, Vehicles and Transmission of ESBL-producing Enterobacteriaceae in the Community and Long Term Care Facilities
Centre Hospitalier Universitaire de Besançon

Reducing Antibiotics Treatment Duration for Ventilator-Associated Pneumonia
University of Oxford

The effect of audit & feedback on prescribing behaviour and engagement with data on OpenPrescribing.net - a randomised controlled trial
University of Oxford
The team of development partners and Digital Science staff achieved a lot in the last 18 months – but that is only a starting point – there is much more to do and improve!

- Interested in metrics development?
- Access to the data for research purposes?
- Deep dive on Dimensions?
- Interested in participating in the development?
.... please just reach out to us

b.alroe@digital-science.com

Twitter: @DSDimensions
Learn more at http://dimensions.ai
Thank you