APIs and Datasets Everywhere

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The University of Queensland

- Brisbane, Australia
- Top 100 university
- 35,000 Undergraduate Students
- 13,000 Postgraduate Students
- 4,000 teaching and research staff
- 4,000 FTE other Staff
UQ eSpace

- The single authoritative source for the research outputs of the staff and students of the University of Queensland
- Submission and archival home of UQ Research Higher Degree Theses in digital form
UQ eSpace

- Raises the visibility and accessibility of UQ publications to the wider world
- Provides data for mandatory Government reporting requirements such as the Higher Education Research Data Collection (HERDC) and Excellence in Research for Australia (ERA) as well as for the internal UQ systems such as the Q-Index.
- Operates as an institutional repository for open access publications and other digitised materials created by staff of the University such as print materials, photographs, audio materials, videos, manuscripts and other original works
Welcome to The University of Queensland's institutional digital repository

Quick Search UQ eSpace

UQ eSpace holds 207,136 records - and counting! Use Advanced Search to search by multiple criteria.

Did you know that you can customize your UQ eSpace RSS feeds by multiple search criteria?

What is RSS?

Our open repository content is indexed by:

OAlster Find the pearls
Trove one search ... a wealth of information
Google scholar

Daily Snapshot


RSS | More...
eSpace

- Evolved from open repository.
- Tool for publication analysis and collation
- Currently push back to open repository
eSpace

- Fedora backend
- Open source code base Fez adapted from Eventum
- 10 year+ code base
- Available Github
- Php / MySql
- Solr
- Plan on removing Fedora
APIs - In

- Links AMR
- Scopus
- Web Of Science
- SHERPA/RoMEO
- ResearcherID
- Ulrichs
APIs - Out

- CrossRef – Creating DOI’s
- XML feeds
  - Trove - Content
  - ANDS – Data collections
  - Summons - Catalogue
- AddThis
- Altmetric
- Google sitemap
Quantifying the consensus on anthropogenic global warming in the scientific literature

Cook, John, Nuccitelli, Dana, Green, Sarah A., Richardson, Mark, Winkler, Baerbel, Painting, Rob, Way, Robert, Jacobs, Peter and Skuce, Andrew (2013) Quantifying the consensus on anthropogenic global warming in the scientific literature. Environmental Research Letters, 8 2: .

Related Links

<table>
<thead>
<tr>
<th>Link</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://dx.doi.org/10.1088/1748-9326/8/2/024024">http://dx.doi.org/10.1088/1748-9326/8/2/024024</a></td>
<td>Full text from publisher</td>
</tr>
</tbody>
</table>

Author

Cook, John
Nuccitelli, Dana
Green, Sarah A.
Richardson, Mark
Winkler, Baerbel
Painting, Rob
Way, Robert
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Title
Quantifying the consensus on anthropogenic global warming in the scientific literature

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ISSN
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Year available
2013

Sub-type
Article (original research)

DOI
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Volume
8
Handy features

Raw output we receive for Scopus or WOS via their API's we use when we import one record

Scopus/Wok ID:  
Submit

Raw output we receive for Sherpa/Romeo via their API's

Sherpa/Romeo - Journal ISSN:  
Submit Sherpa ISSN

Raw output we receive for Ulrichs via their API's

Ulrichs - ISSN:  
Submit Ulrichs Title

Raw output we receive for solr via our API

PID:  
Submit PID

Raw output we receive for links AMR via their API (It will match a WOS ID)

PID:  
Submit PID
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```xml
<response>
  <list name="responseHeader">
    <int name="status">0</int>
    <int name="Qtime">8</int>
  </list>
  <list name="param">
    <str name="q">pid_b:"UQ:381676"</str>
  </list>
</response>
```

Immediate Effects of Varus Bracing on Knee Mechanics in People with Predominant Lateral Knee Osteoarthritis and Valgus Malalignments, 12 Years After Anterior Cruciate Ligament Reconstruction

- Depositor: 8824
- PID: UQ:381676
- Sequence: 881576
- Genre: Conference Paper
- View: 0
- Thomson citation count: 0
- Status: 2

**Citation:** Click to view Conference Paper: Immediate Effects of Varus Bracing on Knee Mechanics in People with Predominant Lateral Knee Osteoarthritis and Valgus Malalignments, 12 Years After Anterior Cruciate Ligament Reconstruction.
The Future

- One full time developer
- Risk of employee leaving
- Moving to other software. On going costs. The need for management.
Visualising University of Queensland Institutional Data

What?
- Authors application
- Organisations application
- Future - UQ wide application

How?
- Service Oriented Architecture
- Amazon infrastructure
- Laravel PHP backend
- AngularJS + others/Bootstrap Frontend
- Jenkins/Karma/PHPUnit
- Datasets and APIs...
The Elsevier Scopus Custom Dataset and InCites Dataset

- Scopus Custom Dataset
  - ~19 million XML documents and counting
  - Dataset purchased for pulling specific statistics
  - Biannual updates

- InCites Dataset
  - Pipe delimited text files
  - Link to download data periodically

Allowed to utilise derived statistics so long as references provided

What else could we do with the data when married with the data already in our institutional repository?
Internal Staff Collaboration and Areas of Research

D3.js/AngularJS
Country and Institutional Collaboration

Google Charts/Maps/GeoCoding APIs
Paper Metrics and Citation History

Young women as smokers and nonsmokers: A qualitative social identity approach

The authors used a social identity perspective to explore young women’s perceptions of smoking. They carried out 13 focus groups and 64 interviewees with women aged 16 to 35 years in regards to the social identities that might influence young women’s smoking behavior.


For another abstract:

13 citations

14 citations

Web of Science

Altmetric

Scopus Citation Data

Web of Science Citation Data

Paper Details

Scopus Citation Data

ABJIC Code Metrics

AllJIC Classification

World Percentile

World Average Citations

Health Professionals (2005)

Top 50%

1.41

Health (social sciences) (2005)

Top 50%

1.39

For Code Metrics

Folk Code

World Average Citations

Medical and Health Sciences (11)

34.29

Year

Papers

Citations

Average

2015

33

6

0.3

2012

25

160

6.76

2011

44

378

22.32

2010

60

1566

30.76

2008

69

3761

48.15

2007

64

3640

60.88

2006

49

1288

26.11

2005

40

2407

62.02

2004

27

1073

39.74

Highstock, Altmetric
Challenges of integrating external datasets

- Data not provided in a database ready format
- Data limited to certain years
- Data provided periodically
- Data is often dirty, authors and institutions identifiers sketchy
- Asking the right questions
- Collaboration with other areas of the university
Jenkins

Project espacetesting

Document links
- Zeotrope videos
- Formatted Results

Permalinks
- Last build (1119), 45 min ago
- Last stable build (1118), 8 hr 22 min ago
- Last successful build (1118), 8 hr 22 min ago
- Last failed build (1110), 4 days 6 hr ago
- Last unsuccessful build (1109), 4 days 6 hr ago

Bruce Schneier knows the state of Schroedinger's cat
Lessons learned

- APIs often fail
- Easy debugging and access
- Undocumented and lost issues
Thanks for listening!

For further details:

Come up and talk to us throughout the conference or...

We’ll be doing a poster presentation and demonstration @ 6:30pm-8:30pm · Location: Kaisa House

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Fin (land)