



Seamless access to the world's  
open access research papers

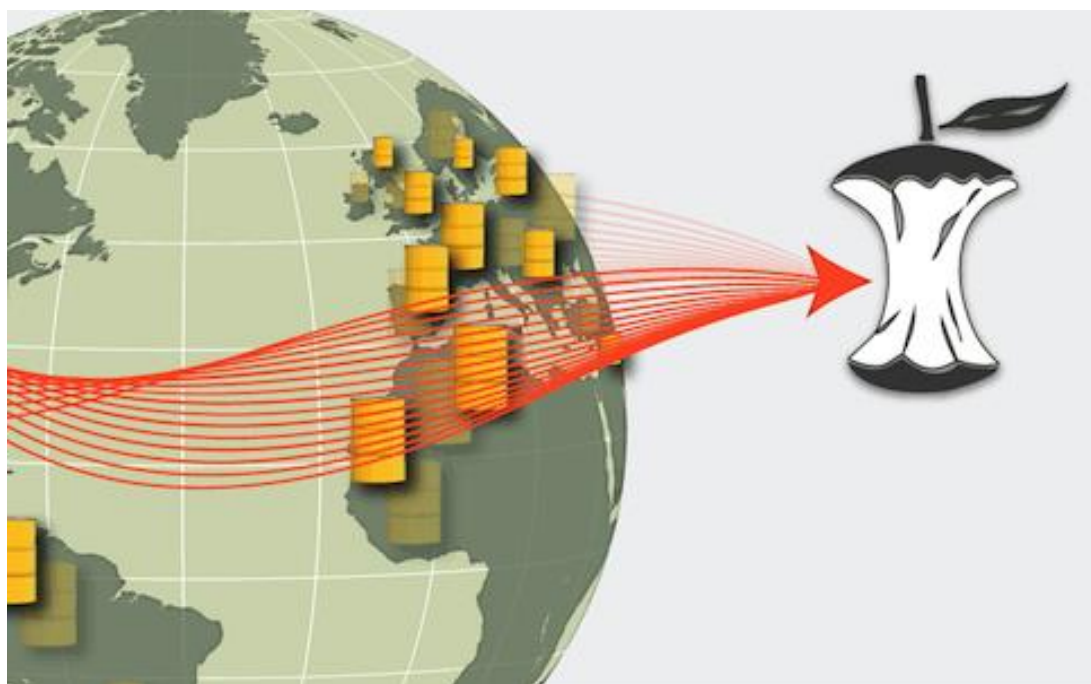
Nancy Pontika



[core.ac.uk](http://core.ac.uk)

# Mission

*Aggregate all open access articles across relevant data sources worldwide, enrich this content and **provide seamless access to it through a set of data services ...***



# World's largest open access articles collection

- > 135,116,215 Metadata
- > 105,290,852 Abstracts
- > 11,817,841 Hosted full texts
- > 78,781,218 Links to full text

60TB of data

3,788 Data providers

~ 50k Journals



CORE API



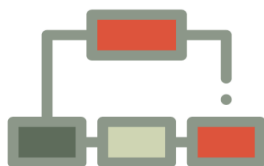
CORE Dataset



CORE Search



CORE Repository Dashboard



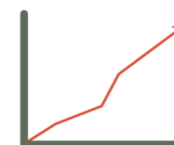
CORE Publisher Connector



CORE SDKs

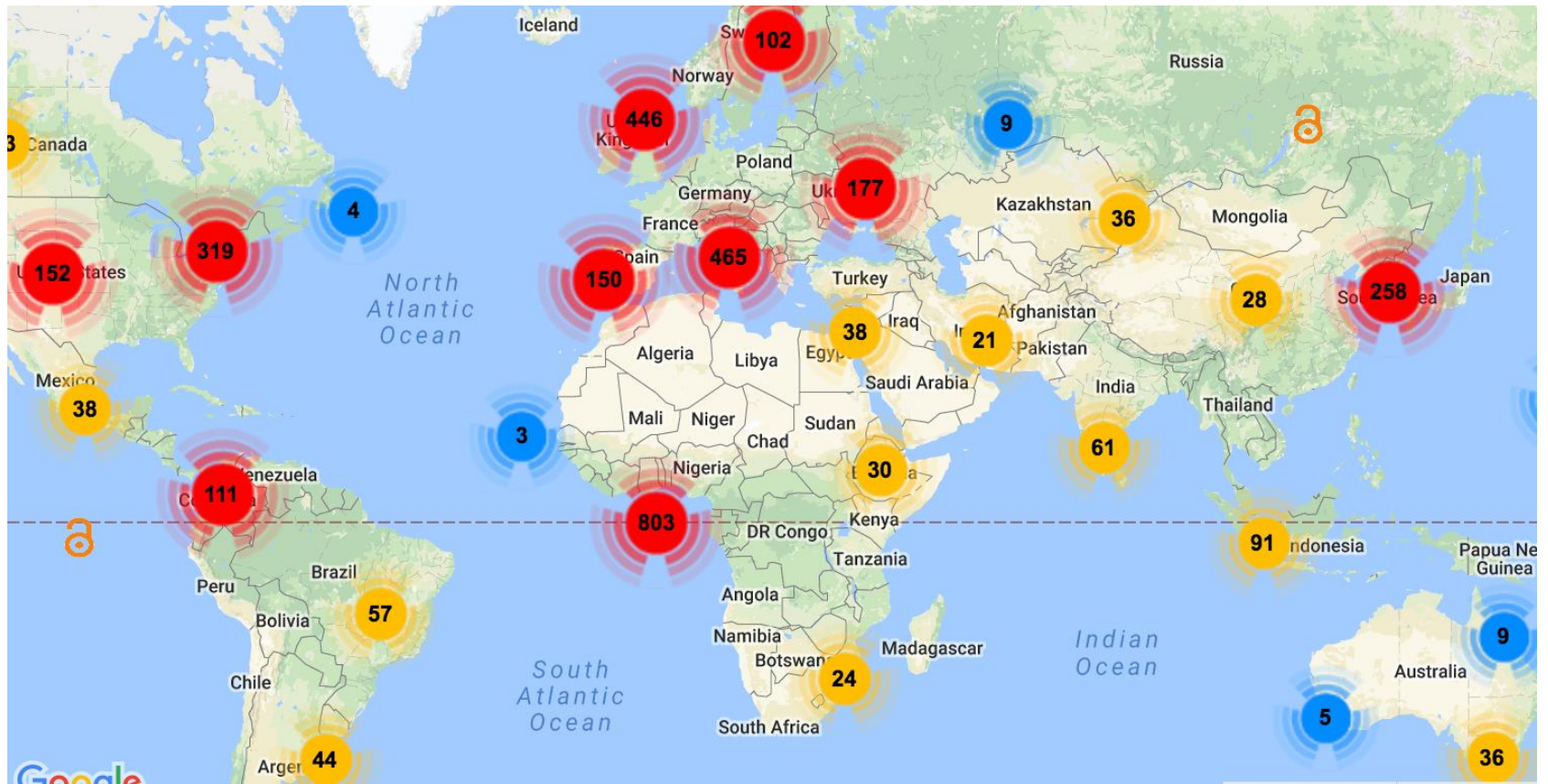


CORE Recommender



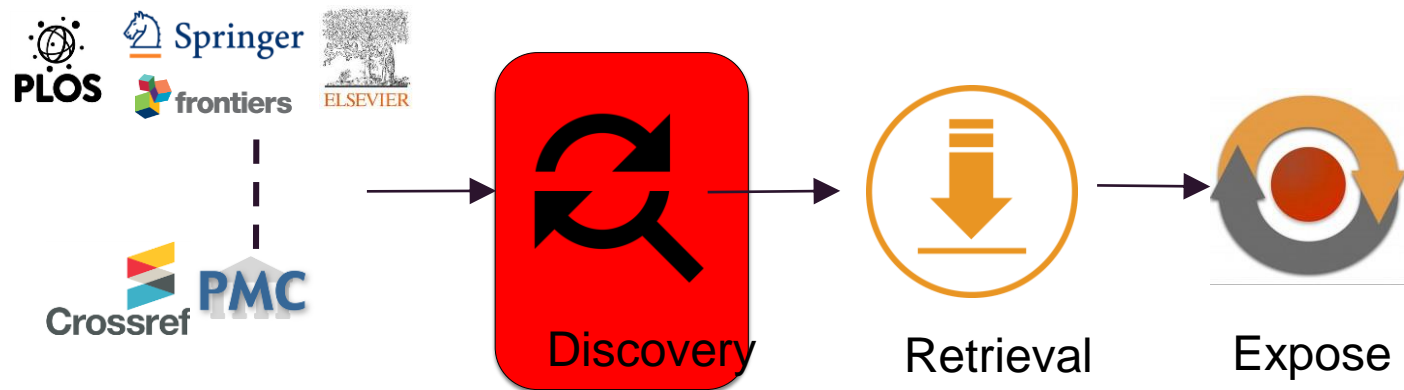
CORE Analytics Dashboard

# Global reach



# Harvesting

1. OAI-PMH
2. ResourceSync
3. Bespoke APIs of Publishers
4. Custom discovery service



# CORE Search



Search 135,363,324 open access articles

Search

## Aggregating the world's open access research papers

We offer seamless access to millions of open access research papers, enrich the collected data for text-mining and provide unique services to the research community.

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# CORE Search



### Refine your search

**Publication type**

☒ with fulltext only

**Year**

**Languages**

<input type="checkbox"/> English	1,229,632
<input type="checkbox"/> Indonesian	48,325
<input type="checkbox"/> Portuguese	28,231
<input type="checkbox"/> Czech	13,902
<input type="checkbox"/> Italian	12,365
<input type="checkbox"/> German	9,571
<input type="checkbox"/> Spanish	7,832
<input type="checkbox"/> French	5,685
<input type="checkbox"/> Dutch	2,765
<input type="checkbox"/> Slovene	1,237


[+ Show more](#)

**Journals**

Showing results for **data mining** (4,482,672 articles found)

Sort by: Relevance ▾

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**Energy efficient data mining scheme for high dimensional data**


By **Mohammad Alwadi** and **Girija Chetty**

**Repository:** University of Canberra Research Repository | 2015

...Communication Technologies (ICICT 2014) Energy Efficient **Data Mining** Scheme for High Dimensional Data Mohammad Alwadi \* Girija Chetty \*The University of Canberra, Bruce

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**Smart phone based data mining for human activity recognition**


By **Girija Chetty**, **Matthew White** and **Farnaz Akther**

**Repository:** University of Canberra Research Repository | 2015

...committee of the International Conference on Information and Communication Technologies (ICICT 2014) vol. 10 18428 www.2015.04.004 ScienceDirect International Conference on

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**Analysing qualitative data from virtual worlds:using images and text mining**

By **Brad James Austin McKenna**, **Michael Myers** and **Lesley...**

# CORE Recommender



CORE Recommender

Type  
Conference Object

Rights  
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Metadata  
[Show full item record](#)

Recommended or similar items

Suggested articles

Suggested articles in Apollo

**Effectively and Efficiently Mining Frequent Patterns from Dense Graph Streams on Disk**  
**Provided by:** Elsevier - Publisher Connector | **Publisher:** The Authors. Published by Elsevier B.V. | **Year:** 2014  
**By** Braun Peter, Cameron Juan J., Cuzzocrea Alfredo, Jiang Fan, Leung Carson K.

**The right to read is the right to mine: Text and data mining copyright exceptions introduced in the UK.**  
**Provided by:** LSE Research Online | **Publisher:** London School of Economics and Political Science | **Year:** 2014  
**By** Mounce Ross

**Global boom, local impacts: Mining revenues and subnational outcomes in Peru 2007-2011**  
**Provided by:** EconStor | **Publisher:** Washington, DC: Inter-American Development Bank (IDB) | **Year:** 2014  
**By** Zambrano Omar, Robles Marcos, Laos Denisse

**Environmental security, mining and good governance : mining regulation in the Kyrgyz region. A review**  
**Provided by:** UEF Electronic Publications | **Publisher:** University of Eastern Finland  
**By** Honkonen T

**A Case Study of Data Analysis Process and Tools for a Consulting Company**  
**Provided by:** Aaltodoc Publication Archive | **Year:** 2012  
**By** Gong Peng

Powered by CORE

- Recommending relevant content to users from across the CORE's content
- Recommender plugin for repositories
- 23 repositories using it, e.g. Cambridge University



# CORE API, data dumps, SDKs



CORE Dataset



CORE API



CORE SDKs

- Enable others to programmatically interact with CORE data.
- Essential for developing applications that make use of information about research papers
- Supporting a variety of use cases
- >500 registered users, including companies for CORE API
- Use:
  - CORE API to interact with CORE in real time
  - CORE Data Dumps to run batch process, develop prototype applications and do research
  - CORE SDKs to gain easy access to CORE API from several programming languages
  - CORE FastSync

# CORE API, data dumps, SDKs



CORE Dataset



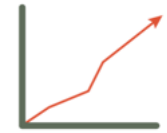
CORE API



CORE SDKs

- It is beyond human capacities to read all scientific literature
- Example use cases in which CORE is applied:
  - Improving discovery
  - Plagiarism detection
  - Question answering in science
  - Literature based discovery
  - Fact checking and detection of misinformation
  - Analysing research trends
  - Finding experts in a particular domain
  - Research evaluation and scientometrics
  - Exploratory and visual search
  - ...

# CORE Analytics Dashboard

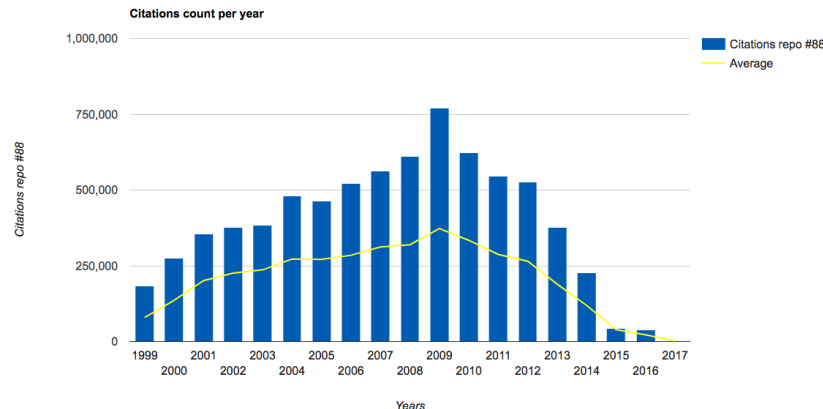


CORE Analytics Dashboard



Oxford University Research Archive  
University of Oxford  
ora@bodleian.ox.ac.uk

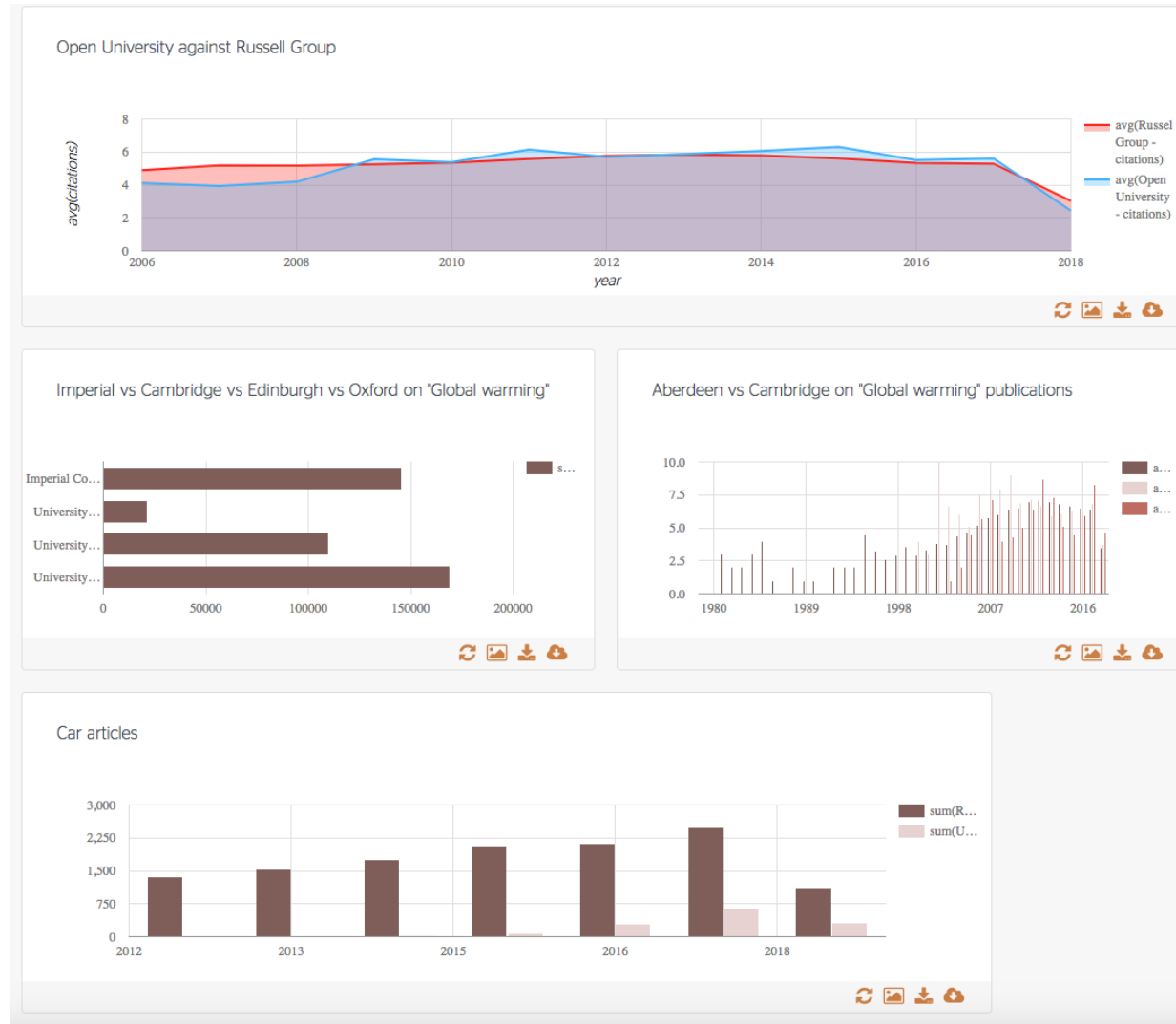
Count toggle Avg toggle Norm toggle



- Helps you analyse the impact of research at your institution.
- See how you perform against competitors.
- Slice and dice by discipline, field, any kind of a query

# CORE Analytics Dashboard: sneak peek

- Customizable area
- Pre-defined widgets of standard data reports



# Conclusions

- Global world's largest aggregator of open access papers
- A suite of data services for a variety of stakeholders
- Large user base
- Moving fast from research to a product. Always innovate.

# Thank you!



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 core.ac.uk/team

