

Credit: Swiss National Science Foundation

International trends in open access and repositories

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COAR?



- An international association founded in 2009
- Office is based in Göttingen, Germany
- Members & Partners: over 120 institutions from 35 countries in Australia, Africa, Asia, Europe, North and South America
- Institutional membership fees: EUR 500
- CARL was a founding member
- Growing North American membership





Vision



A global knowledge commons based on a network of open access repositories





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Working for a sustainable, global knowledge commons based on a net work of open access digital repositories



Who is COAR?

- Over 100 members and partners from 35 countries in 5 continents
- Universities, libraries, government agencies, open access organizations, not-for-profit organizations, and platform developers
- · Diverse perspectives that share a common vision

Major Activities

International voice

Raising the visibility of repository networks as key infrastructure for open science

Alignment and interoperability

Building a global knowledge commons through harmonization of standards and practices

Cultivating relationships

Supporting an international community of practice for repositories and open access

Building capacity

Advancing skills and competencies for repository and research data management

Adopting value-added services

Promoting the use of web-friendly technologies and new functionalities for repositories

How to participate?

- Organizations can join COAR for €500 Euros per year (about \$600 US)
- Join as a single, consortial, or special member or partner
- · Download the membership application (https://www.coar-repositories.org/about/join/become-a-member)

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The international publishing system is broken!

The access problem



TABLE 1: AVERAGE 2017 PRICE FOR SCIENTIFIC DISCIPLINES

DISCIPLINE	AVERAGE PRICE PER TITLE	DISCIPLINE	AVERAGE PRICE PER TITLE
Chemistry	\$4,773	Botany	\$2,053
Physics	4,369	Zoology	1,988
Engineering	3,408	Math & Computer Science	1,971
Biology	2,917	Geography	1,742
Food Science	2,567	Health Sciences	1,736
Geology	2,381	Agriculture	1,666
Technology	2,234	General Science	1,556
Astronomy	2,071		
SOURCE: LJ PERIODICALS PRICE SURVEY 2017			





Slide from Laura Czerniewicz presentation at OR 2016 in Dublin



The participation problem



World scaled by number of documents in Web of Science by Authors Living There





The pressure to publish in "luxury" journals encouraged researchers to cut corners and pursue trendy fields of science instead of doing more important work.





We are all complicit!





2016 JOURNAL CITATION REPORTS THOMSON REUTERS



REVIEW ARTICLE

How to publish a scientific manuscript in a high-impact journal



Emad M. El-Omar*

10 simple strategies to increase the impact factor of your publication

by sven | Mar 5, 2015 | |

Impact factors are heavily criticized as measures of scientific quality. However, they still dominate every discussion about scientific excellence. They are still used to select candidates for positions as PhD student, postdoc and academic staff, to promote professors and to select grant proposals for funding. As a consequence, researchers tend to adapt their publication strategy to avoid negative impact on their careers. Until alternative methods to measure excellence are established, young researchers have to learn the "rules of the game".









About

Browse



🔓 OPEN ACCESS 👔 PEER-REVIEWED

RESEARCH ARTICLE

The Oligopoly of Academic Publishers in the Digital Era

Vincent Larivière , Stefanie Haustein, Philippe Mongeon

Published: June 10, 2015 • DOI: 10.1371/journal.pone.0127502

	Article	Authors	Metrics	Comments	Related Content		
	*						
	Abstract						
1	Introduction	Abstract					
	Methods	The consolidation of the scientific publishing industry has been the topic of much debate within					
	Results	The consolidation of the scientific publishing industry has been the topic of much debate within and outside the scientific community, especially in relation to major publishers' high profit margins. However, the share of scientific output published in the journals of these major publishers, as well as its evolution over time and across various disciplines, has not yet been analyzed. This paper provides such analysis, based on 45 million documents indexed in the Web of Science over the period 1973-2013. It shows that in both natural and medical sciences (NMS) and social sciences and humanities (SSH), Reed-Elsevier, Wiley-Blackwell, Springer, and Taylor & Francis increased their share of the published output, especially since the advent of the digital era (mid-1990s). Combined, the top five most prolific publishers account for more than 50% of all papers published in 2013. Disciplines of the social sciences have the highest					
	Discussion and Conclusion						
	Acknowledgments						
	Author Contributions						
	References						
	Reader Comments (3)		ation (70% of papers from aly independent (20% from	the top five publishers), where top five publishers). NMS			

Madia Osusana (7)



Open access has arrived!



European Union: May 27, 2016



The Competitiveness Council meeting in Brussels this week.

EU Competitiveness Council

In dramatic statement, European leaders call for 'immediate' open access to all scientific papers by 2020

Smooth transition?







Photo credit: Roy Gumple (www.allposters.com)





NEWS

FAQ

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ROADMAP

OA2020 – initiative for the large-scale transition to open access

OA2020 – The Initiative			
	NA2020	The	Initiativo

MISSION

ABOUT

HOME



B13 CONFERENCE

Open Access 2020 is an international initiative that aims to induce the swift, smooth and scholarly-oriented transformation of today's scholarly journals from subscription to open access publishing.









Scientists in Germany, Peru and Taiwan to lose access to Elsevier journals

Libraries pursue alternative delivery routes after licence negotiations break (

Quirin Schiermeier & Emiliano Rodríguez Mega

23 December 2016 | Corrected: 03 January 2017 | Updated: 09 January 2017

🖄 PDF 🛛 🔍 Rights & Permissions

9 January: Since this story was published, Elsevier has granted a one-month acce until the end of January — to those Taiwanese universities that had cancelled their



KATEGORIAT

③Blogi
③Tapahtumat
③Tiedotteet
③Uutiset

Affordable prices and open access esse fully supports goals of FinELib consortiu Elsevier negotiations

Universities Finland UNIFI is giving its full support to the FinELib consortium's goals i large academic publisher Elsevier. The main goals are to ensure that the academic comm Elsevier's journals at affordable prices and that there is a clear transition towards immed

The cost of access to Elsevier's journals (the SD Freedom collection) has grown significa unconscionable and accordingly demands that the increase in costs must stop.

Leaked Elsevier contract reveals pushback



23 maart 2017 - On the day of the hearing between Elsevier and the Dutch universities ScienceGuide has uncovered the contract which publicity was the centre of the dispute. The open access paragraph in the contract reveals how Elsevier plans to fight open access every step of the way.

All of the Dutch institutions combined will have the right to publish a maximum number of 3600 open access articles in Elsevier journals over the course of three years. They are only allowed to do so if the corresponding author is affiliated with a Dutch insitution, and only a fraction of the publishers vast number of journals is eligible. Elsevier has succeeded to make this deal as unappealing as possible for authors, setting the 'experiment' up to fail.

All publicly funded research should be openly available to everybody. The fees paid by universities for subscriptions must enable open access publishing for Finnish researchers. The total costs of academic publishing must not be allowed to grow.

UNIFI requires that Elsevier reacts to the demands from Finnish universities and offers a solution combining affordable pricing and a transition towards immediate open access.



16





Strengthen and add value to our repository networks



Current state of repositories internationally





Proportion of Repositories by Continent - Worldwide

Total = 3346 repositories

OpenDOAR - 25-Jun-2017







The vast majority of open access policies are green!

OA Policy Requirements - Pasteur4OA Project (European Commission)

Criterion (Green OA)	Number of policies	Criterion (Gold OA)	Number of policies		
Deposit in repository required (Green OA)	381	OA publishing required	2		
Deposit in repository requested	140	Recommended alternative to Green OA	97		
Deposit in repository not specified	141	Permitted alternative to Green OA	101		
		Not specified/other	463		
Total	663		663		
Table 3: Open Access policies: Green and Gold OA criteria					

MI "

MIT Future of Libraries Report

"... The MIT Libraries must operate as an open, trusted, durable, interdisciplinary, interoperable content platform that provides a foundation for the entire life cycle of information for collaborative global research and education."

"In this report, we describe a bold new vision for the library as an **open global platform** rooted in our shared values and mission."





Lorcan Dempsey's "Inside-out library



- The traditional library was built on an "outside-in" model: information materials were brought to the institution and made available for use.
- But, our environment has now changed. We live in an age of information abundance and transaction costs are reduced on the web. This makes the locally assembled collection less central. At the same time, institutions are generating new forms of data—research data, learning materials, preprints, videos, expertise profiles, etc.—which they wish to share with others.

These need to be managed and disclosed, as an "inside-out" perspective becomes more interesting.





Repositories are critical for our future vision of libraries



Dual mission of repositories

- 1. "Showcase" and provide access to institutional research
- 2. Nodes in a global knowledge commons





Science is increasingly global!



GÉANT Global Connectivity Map







Aligning Repository Networks International Accord





May 8, 2017





Venice, Italy

On May 8, 2017, several regional and national repository networks and stakeholder groups formally endorsed an international accord that will lead to the greater alignment of repository networks around the world. The aim of the accord is to improve cooperation between national and regional repository networks by identifying common principles and areas of collaboration that will lead to the development of global services.

25



1. Strategic coordination



To have a shared vision and a stronger voice for the repository community internationally



Joint COAR-UNESCO Statement on Open Access

Open access is a global trend, with policies and practices rapidly being adopted around the world. As the world enters a new era of sustainable development, openness and inclusiveness in scientific research will become increasingly critical. While most governments agree on the underlying principles of open access, there is significant diversity in the way countries have approached its implementation. These differences reflect a range of perspectives, values, and priorities of the different regions. Clearly, there is no "one-size-fits-all" solution to implementing open access.

COAR Guidelines for Assessing Publisher Repository Services

Statement against Elsevier's sharing policy

Organizations around the world denounce Elsevier's new policy that impedes open access and sharing

Signed by 300 organizations and 3000 individuals!





3. Interoperability



To support the development of value added services across regions

🕇 -- journal article --

Pr

JRI	http://purl.org/coar/resource_type/c_6501
Definition (en)	A journal article is a self-contained nonfiction prose composition on a particular subject, written by one or more authors who conducted the research and for publication in an academic or scholarly journal.
Preferred label (en)	journal article
Preferred label (zh)	学术论文
Preferred label (es)	artículo
Preferred label (it)	articolo in rivista
Preferred label (fr)	article
Preferred label (de)	Wissenschaftlicher Artikel
Preferred label (ru)	журнальная статья
Preferred label (ca)	article de revista
Preferred label (nt)	artigo

COAR Controlled Vocabularies: #1 resource type (currently in English, Chinese, Dutch, French, Italian Portuguese, Russian, Spanish, Turkish) Version 1.0 available on the COAR website<u>https://www.coar-</u> repositories.org/activities/repository-interoperability/ig-controlledvocabularies-for-repository-assets/deliverables/ Version 1.1 will be available soon

Metadata guidelines: OpenAIRE and LA Referencia agreed to common guidelines in 2015





Elephant in the room



29





In their current form, repositories only perpetuate the flawed system







COAR Working Group, Next Generation Repositories

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Next generation repositories



To position repositories as the foundation for a distributed, globally networked infrastructure for scholarly communication

_on top of which layers of value added services will be deployed,

_thereby transforming the system, making it more research-centric, open to and supportive of innovation,

_while also collectively managed by the scholarly community.





The system would be based on the following principles

- Distribution of control
- Inclusiveness
- Public good
- Intelligent openness

Design assumptions

- Focus on the resources themselves, not just associated metadata
- Pragmatism
- Evolution, not revolution
- Convention over configuration
- Engage with users where they are







Our vision involves more that just articles



All the valuable products of research should be shared!











Our Methodology

Identify major use cases	\checkmark	
Determine functionalities and behaviours	\checkmark	
Develop conceptual model	\checkmark	
Define technologies and architectures		
Publish recommendations		
Promote adoption and implementation		

Open for public comment in early 2017

User stories

- Data mining
- Discovering metadata that describe a scholarly resource
- Discovering the identifier of a scholarly resource
- Discovering usage rights
- Resource syncing and notification
- Recognizing the user
- Commenting & annotating
- Providing a social notification feed
- Recommender systems for repositories
- Preservation
- Peer-review
- Comparing usage



COAR	
Next Generation Repositories	
Padrowry 7, 2017 – draff for public commant	
Magnificant requestioning. and	

https://www.coar-repositories.org/files/ COAR-Next-Generation-Repositories-February-7-2017.pdf

36



By Petr Knoth, CORE









Open peer review



Recommender systems

ITEM:

ALSO BOUGHT:

piccolo

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Standard usage statistics

OpenAIRE USAGE

Standard alignment across heterogeneous data providers for gathering usage data & sharing statistics.

Taking care of data privacy policies in EU and member states. Collection, measure and analysis of usage data (downloads and views). Correlate with altmetrics.

Correlate with citation metrics.

SUPPORTING RESEARCH ANALYTICS

Altmetrics

Hub for Responsible Metrics

Usage workflows



Picture from to Petr Knoth

Next Generation Repositories

To support these services, we need to improve the functionality of repositories

- -To be <u>of</u>, not just <u>on</u> the web
- -Global interoperability (exposing content in a standardized way)
- -Pro-active repositories
- -To support development of value added networked services





Concluding thoughts



- Repositories are a technology, and technologies change
- What we are really promoting is a vision in which institutions, universities, and their libraries are the foundational nodes in a global scholarly communication system
- We can do this by leveraging, expand and enhancing the already globally connected international repository network – and working through our partners
- We need to start to coalesce around a shared vision









Thank you!



