



PUBLICATION OF RESEARCH RESULTS

FEUP Library's Team

Porto, 10th July 2017



Topics overview

PUBLICATION
PROCESS

1

DISCOVERY

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PUBLICATION

3

EVALUATION

4

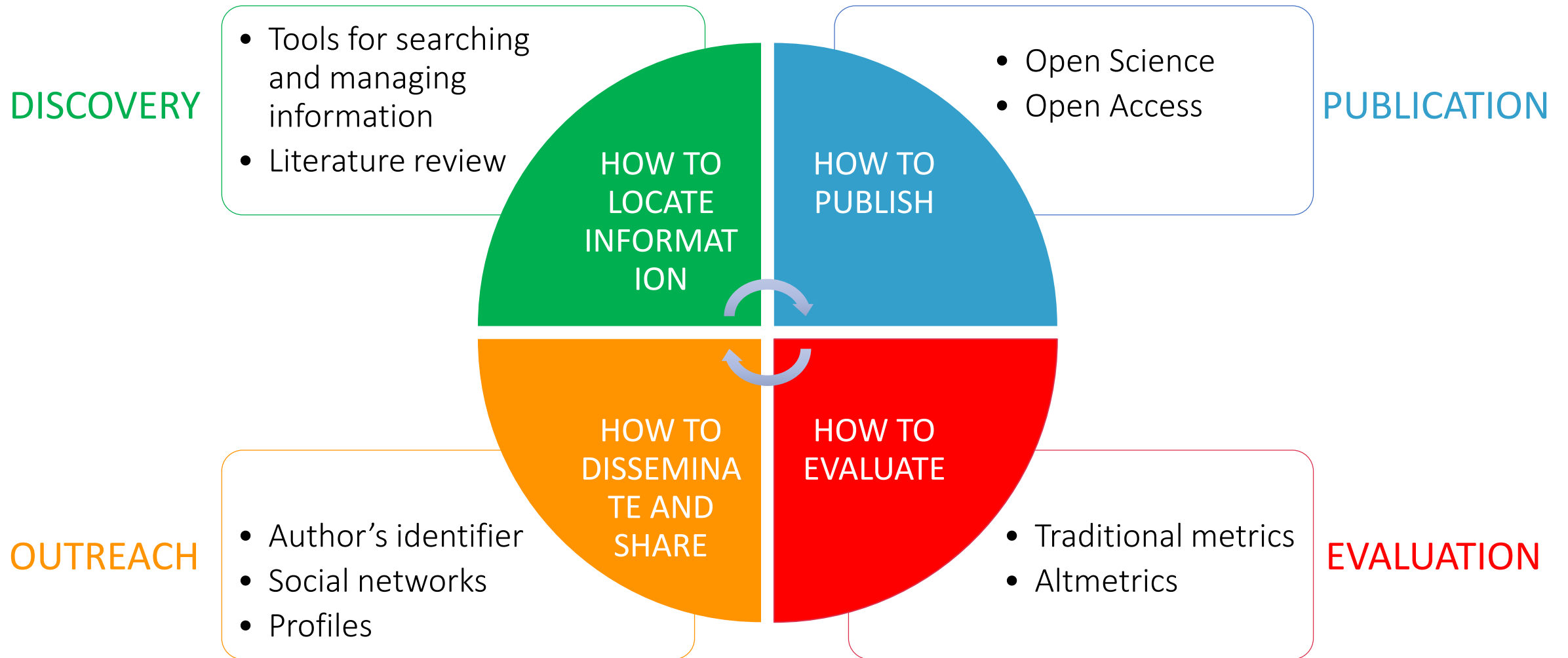
OUTREACH

5

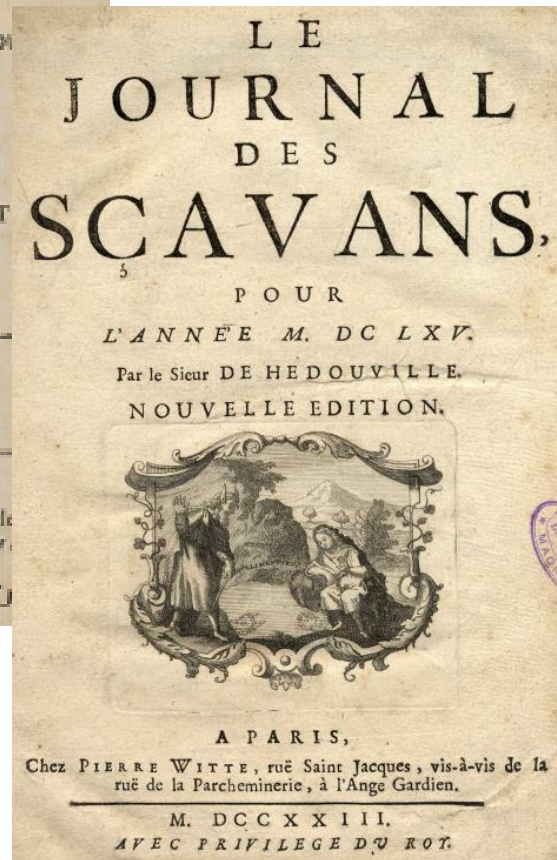
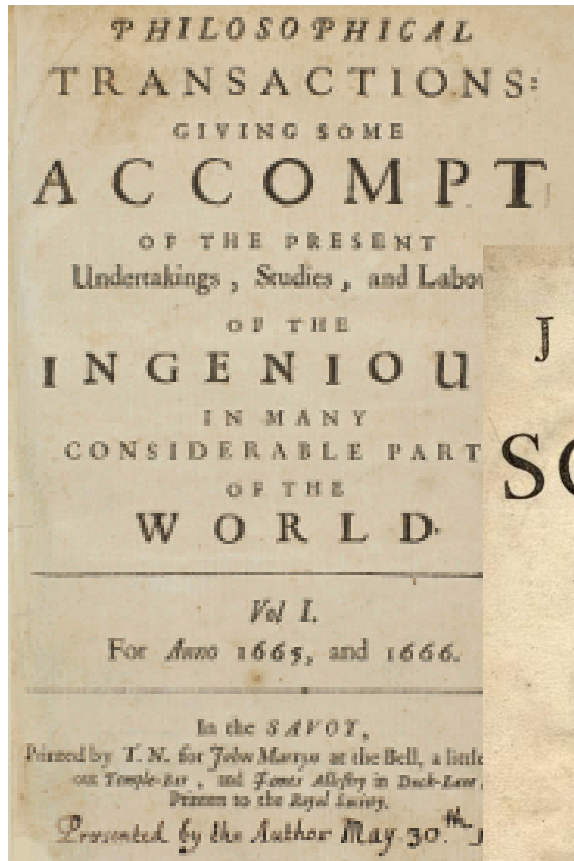
PUBLICATION PROCESS

Starting with the context

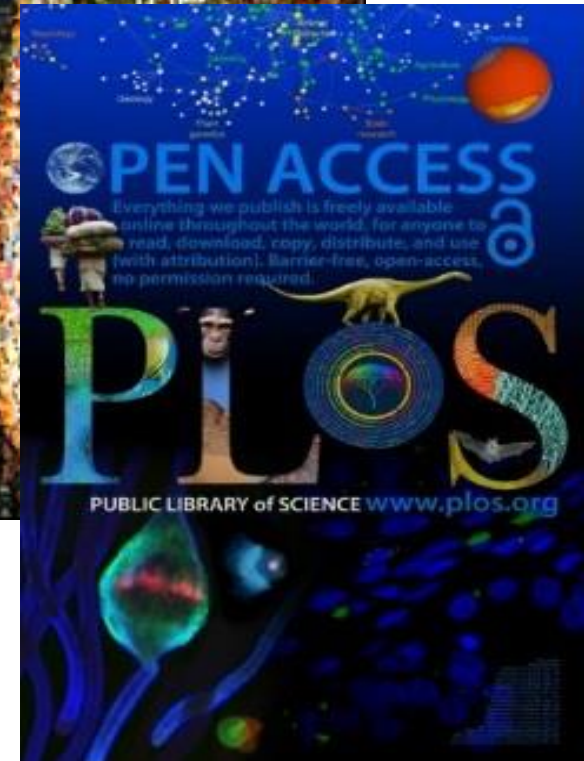
The publication process



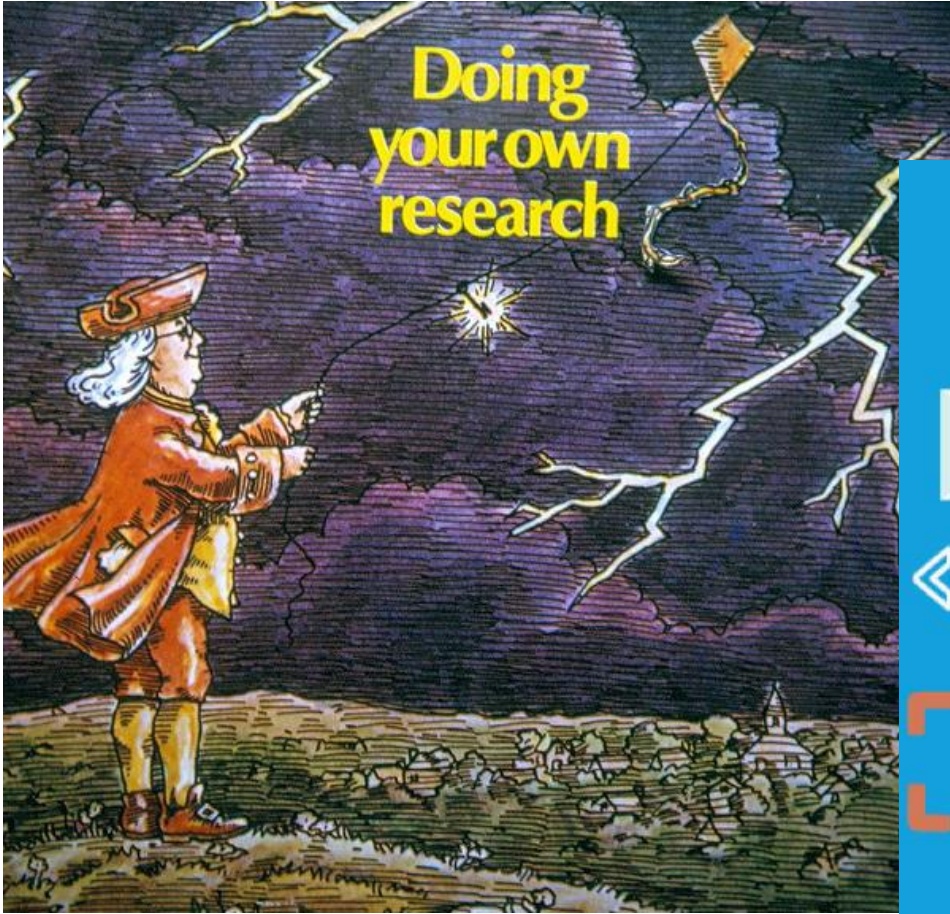
Scholarly communication: a huge evolution



+/-
350
years



Researcher's skills



then...

... and now!



Tools for scholarly communication



https://docs.google.com/spreadsheets/d/1KUMSeq_Pzp4KveZ7pb5rddcssk1XBtLHniD0d3nDqo/edit#gid=0

400+ Tools and innovations in scholarly communication										
Ficheiro Editar Ver Inserir Formatar Dados Ferramentas Suplementos Ajuda A última edição foi efetuada ontem às 18:00 por anónimo										
<div> </div>										
	B	D	E	F	G	H	I	J	K	
1	Want to get rid of the "No fly zone" hash obscuring your view? Uncheck protected ranges in the View menu!						Please do not sort columns/rows!			
2	NAME	URL	WEBLAUNCHYEAR	PRIMEPHASEALPHA	EPHASENUM	FUNCTIONFREE	UI_FUNCTIONFREE	FUNCTIONCONTROLLED	G-E-O-CATEGORY	UI_G
3	name (blue ones were added last month)	clickable link	year of weblaunch / introduction / founding	primary phase of workflow targeted	phase order	what is/does it? (free text)	user input for "what is/does it?"	what is/does it? (controlled)	Open / Efficient / Good	Does make more Efficient / Good Representation
4	OSF (Open Science Framework)	https://osf.io	2013	project management/planning	0	open network of research documents, version control system, collaboration software, project management and registering; badges? also: commenting		open project management	G	
5	AsPredicted	https://aspredicted.org/	2015	project management/planning	0	standardized preregistration form + platform		preregistration platform	G	
6	DMP Tool	https://dmptool.org/	2011	project management/planning	0	create data mangement plans		project management	E	
7	Projects	https://projects.ac/	2013	project management/planning	0	science project management; manage experiments and data		project management	E	
8	Confluence (Atlassian)	https://www.atlassian.c	2003	project management/planning	0	team collaboration/planning		project management	E	
9	Innocentive	http://www.innocentive	2001	crowdsourcing/define research priorities/ideas/collaborations	1	crowdsourced innovation		connect researchers to research	E/O	
10	DHcommons	http://dhcommons.org/	2010	crowdsourcing/define research priorities/ideas/collaborations	1	digital humanities platform matching projects to researchers		connect researchers to research	O/E	
11	Syneratio	https://syneratio.com	2012	crowdsourcing/define research priorities/ideas/collaborations	1	crowdfunding and collaboration		crowdfunding platform, and more	E/O	
12	LinkNovate	http://www.linknovate.c	2014	crowdsourcing/define research priorities/ideas/collaborations	1	Find experts, technology, innovative startups through non-pub sources		experts search engine	E	
13	Direct2experts	http://direct2experts.or	2010	crowdsourcing/define research priorities/ideas/collaborations	1	A federated national (US) network of research networks in biomedicine		experts search engine	E	
14	Scholar Universe	http://www.scholaruniv	2005	crowdsourcing/define research priorities/ideas/collaborations	1	find experts		experts search engine	E	
15	AcademicLabs	http://www.academicla	2015	researcher profiling (& social network)	1	Facilitate research (group) collaboration & find matches		matching network	E	
16	Journal of Brief Ideas	http://beta.briefideas.o	2015	crowdsourcing/define research priorities/ideas/collaborations	1	citable online index of research ideas available for public scrutiny		research ideas search engine	O/E	
17	Kolabtree	https://www.kolabtree.d	2015	crowdsourcing/define research	1	platform to hire freelance researchers for		connect researchers to research	E	

DISCOVERY

*Tools for searching and
managing information*



Integrated search

WORLDWIDE
PUBLISHED?

Multimédia Repositório Catálogo UPdigital A-to-Z

Registe-se Folder Preferences Language

★ My library ✎ My Citations ✉ Alerts 📊 Metrics ⚙ Settings

DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

SUPPORT DOAJ

Search Browse Subjects Apply News About For Publishers API

Search DOAJ

📄 journals 📄 articles [Advanced Search]

Directory of Open Access Journals (DOAJ)

DOAJ is a community-curated online directory that indexes and provides access to high quality, open access, peer-reviewed journals.

Latest News

Open Access Publishing in China

This is a guest post by Xin Bi, DOAJ Ambassador, China. Following rapid development in the economy and huge investment in R&D, China is now widely recognised as one of the leading countries of the world in terms of the number of published journals and scientific articles. In 2015, there were over 10,000 journals in China, [...] [Read More...](#)

Fri, 23 Jun 2017 at 09:58

Are you publishing in a proper journal?

This is a guest post by Vrushali Dandawate, DOAJ Ambassador, India. All over the world researchers are spending their time in writing research papers, and everyone wants his or her work to be widely recognised. Most of the time researchers are in a hurry to publish their research papers, so they may not pay [...] [Read More...](#)

Fri, 02 Jun 2017 at 10:18

We have improved our XML validation

We are happy to announce that we have improved the features of our xml validation. As an article XML is uploaded to DOAJ from the publisher area we will check to see if the uploaded file meets a number of criteria: Is it actually XML? (have you given us a PDF by mistake?) Does the XML meet [...] [Read More...](#)

9,427 Journals
6,840 searchable at Article level
123 Countries
2,500,286 Articles

FAQs
[Interacting with DOAJ](#)
[Open Access Information](#)
[Best Practice](#)
[Download metadata](#)
[New Journals Feed](#)

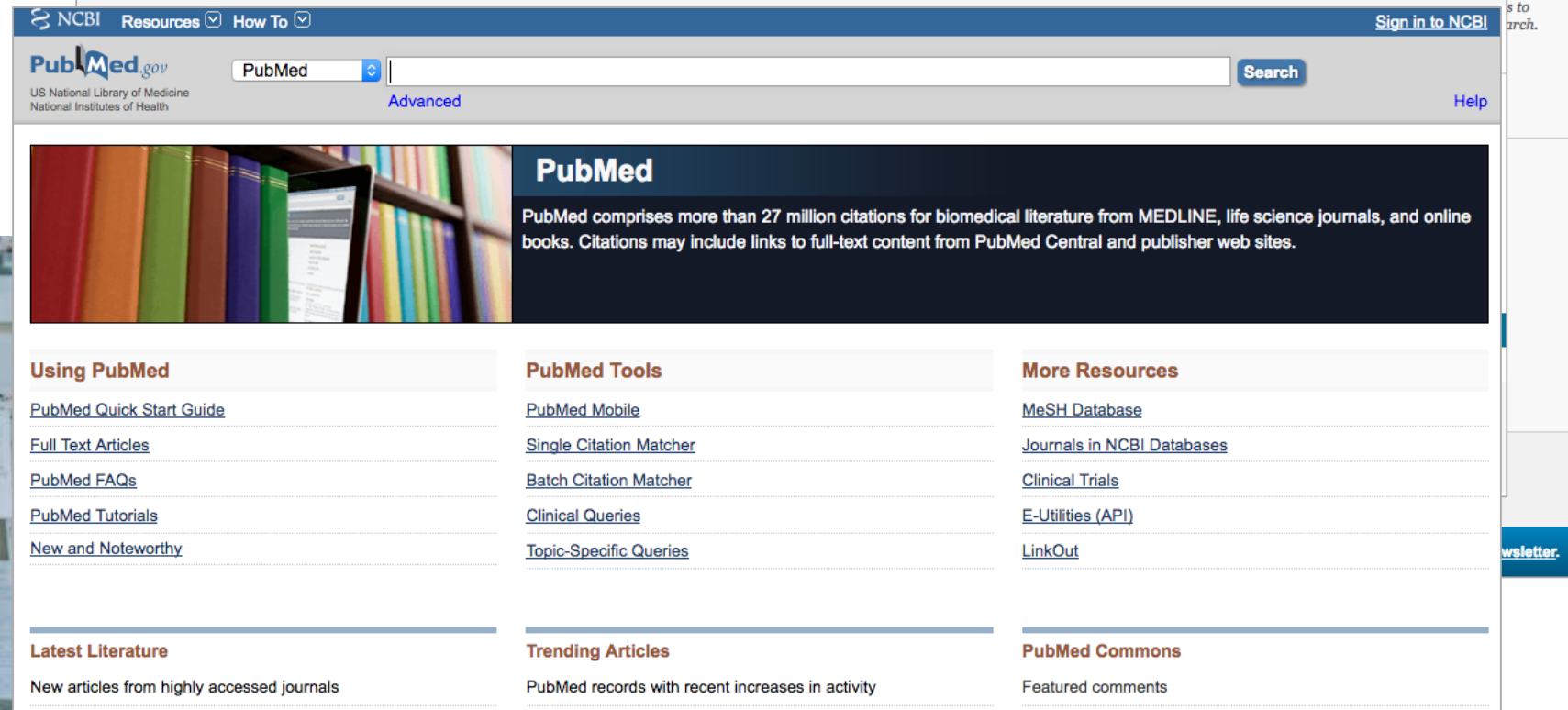
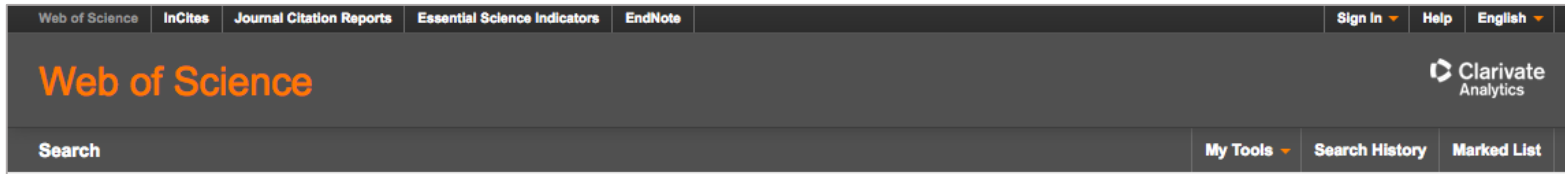
Our members
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f t in g u

SUPPORT DOAJ

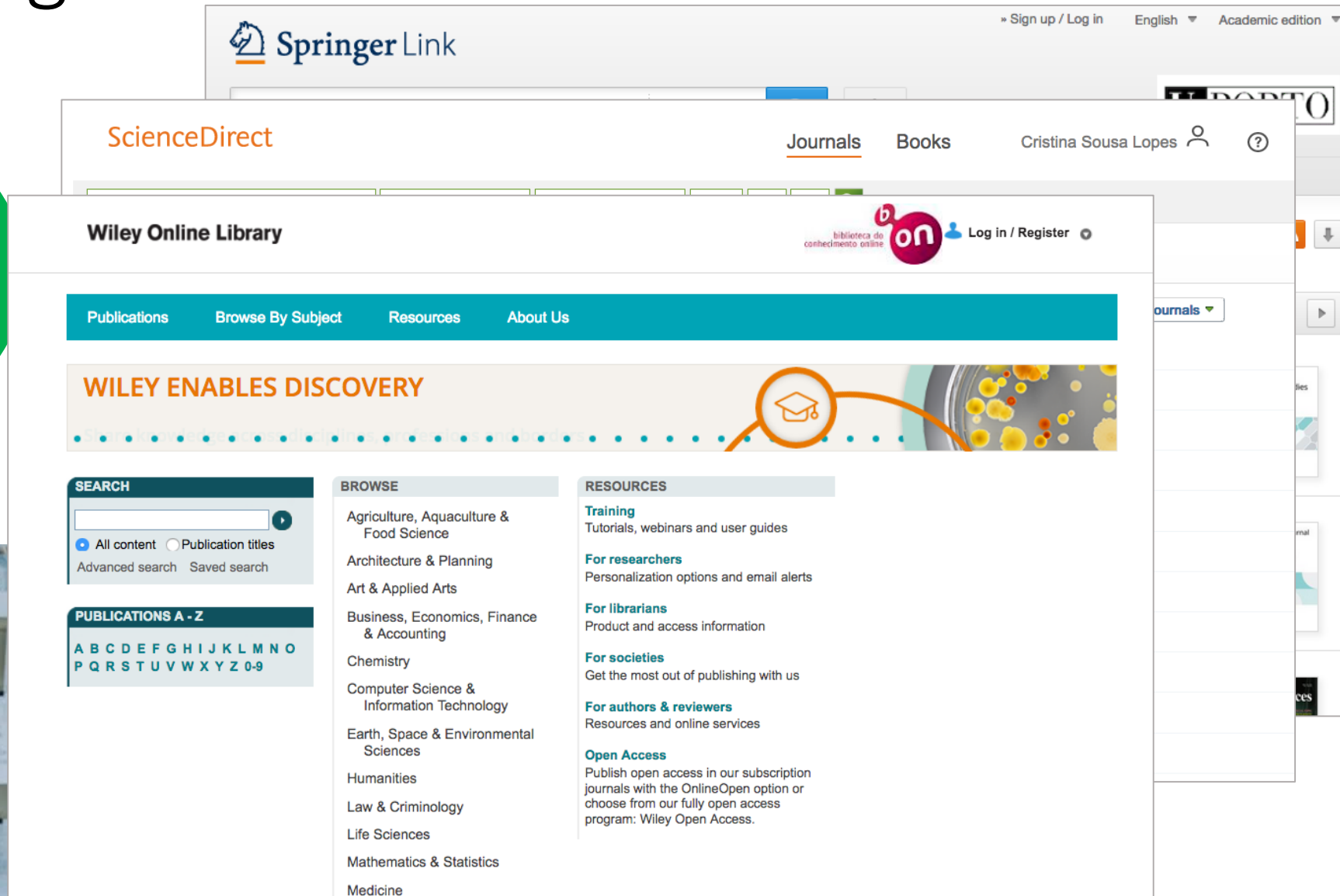
Bibliographic databases

PUBLISHED
ON MY FIELD
LATELY?



Publishers' digital libraries

BY SPECIFIC
PUBLISHERS?



Academic repositories

BY CERTAIN
UNIVERSITIES?



This block contains three overlapping screenshots of academic repositories. The top screenshot shows the Cornell University Library logo and the text 'Cornell University Library'. The middle screenshot shows the arXiv.org logo, which is a stylized 'a' with a red and blue swirl. The bottom screenshot shows the 'Repositório Aberto da Universidade do Porto' website. This website has a blue header with the 'U. PORTO' logo and a search bar. The main content area is titled 'Pesquisar' (Search) and includes a search bar with a dropdown menu set to 'Em todo repositório'. Below the search bar are buttons for 'Enviar' (Send) and 'Iniciar uma nova pesquisa' (Start a new search). There are also filters for 'Adicionar filtros' (Add filters) and 'Utilizar filtros para refinar o resultado da pesquisa.' (Use filters to refine the search result). The bottom of the search results shows 'Resultados/Página' (Results/Page) with a dropdown for '10' and 'Ordenar registos por:' (Order records by:) with a dropdown for 'Relevância' (Relevance). The right sidebar of the website shows a 'Refinar' (Refine) section with a list of authors: José Luís Pais Ribeiro, Cristina Queirós, João Manuel R. S. Tavares, Carlinda Leite, and Félix Neto. There is also a 'Assunto' (Subject) section with 'Psicologia' (Psychology) listed. The bottom right corner of the website shows the 'UNIÃO EURO FEDER' logo.

Ranks of journals

IN WHICH
JOURNALS?

Web of Science™ InCites™ Journal Citation Reports® Essential Science Indicators™ EndNote™ Sign In Help English

InCites™ Journal Citation Reports® THOMSON REUTERS™

SJR Scimago Journal & Country Rank Enter Journal

Home Journal Rankings Country Rankings Viz Tools Help About Us

Google Scholar

Top publications

Categories > Chemical & Material Sciences > Subcategories ▾

Subcategories	Composite Materials	Molecular Modeling	Median
Analytical Chemistry	Crystallography & Structural Chemistry	Nanotechnology	
Biochemistry	Dispersion Chemistry	Oil, Petroleum & Natural Gas	329
Ceramic Engineering	Electrochemistry	Organic Chemistry	293
Chemical & Material Sciences (general)	Inorganic Chemistry	Polymers & Plastics	301
Chemical Kinetics & Catalysis	Materials Engineering		276
Combustion & Propulsion	Medicinal Chemistry		332

6.	Nano Letters	192	270
7.	Energy & Environmental Science	184	254
8.	ACS Nano	180	243
9.	Nature Materials	171	285
10.	Nature Nanotechnology	154	244
11.	Chemical communications (Cambridge, England)	142	187
12.	Journal of Materials Chemistry	141	176
13.	Accounts of Chemical Research	137	217
14.	Advanced Functional Materials	125	183
15.	The Journal of Physical Chemistry C	124	157
16.	Biomaterials	123	158
17.	Nanoscale	120	171
18.	Nature Chemistry	113	174
19.	Chemistry of Materials	113	160

Download data

0 of 705 < >

Ref. / Doc.

19.12

32.47

31.98

127.63

42.18

55.85

107.17

Reference managers

MANAGE
INFORMATION
EFFICIENTLY?



The collage features several overlapping elements. At the top, the Zotero logo is displayed in red and black. Below it, the Mendeley logo and navigation menu are visible. The EndNote website is prominently featured in the center, showing its header with 'EndNote' in blue, a 'Free EndNote Trial' link, and a search bar. The main content of the EndNote page includes the headline 'A Smarter Way to Research' and a sub-headline 'Leave behind the tedious work of formatting bibliographies, finding full text, and searching for references.' Below this, there are buttons for 'Buy EndNote X8' and 'Learn More'. At the bottom of the EndNote section, there are logos for Windows 10, Mac, and the App Store. To the right of the EndNote page, a portion of another website is visible, showing a search bar and some text. In the bottom left corner, there is a photograph of a person from behind, looking at a wall covered in various papers, diagrams, and notes.

zotero

Log In · Register

Upgrade Storage

Mendeley

Sign In Create account Download Search

Reference Management Research Network Datasets Careers Funding

EndNote

Free EndNote Trial Site Search

Product Details Downloads Training Support Buy Contact Sales: +1-800-722-1227

A Smarter Way to Research

Leave behind the tedious work of formatting bibliographies, finding full text, and searching for references.

Buy EndNote X8 > Learn More >

Download on the App Store

Use your research superpowers for good – leave the organizing to us

PUBLICATION

Open Access



Open Science



Open Access



Open Data



Research Data Management



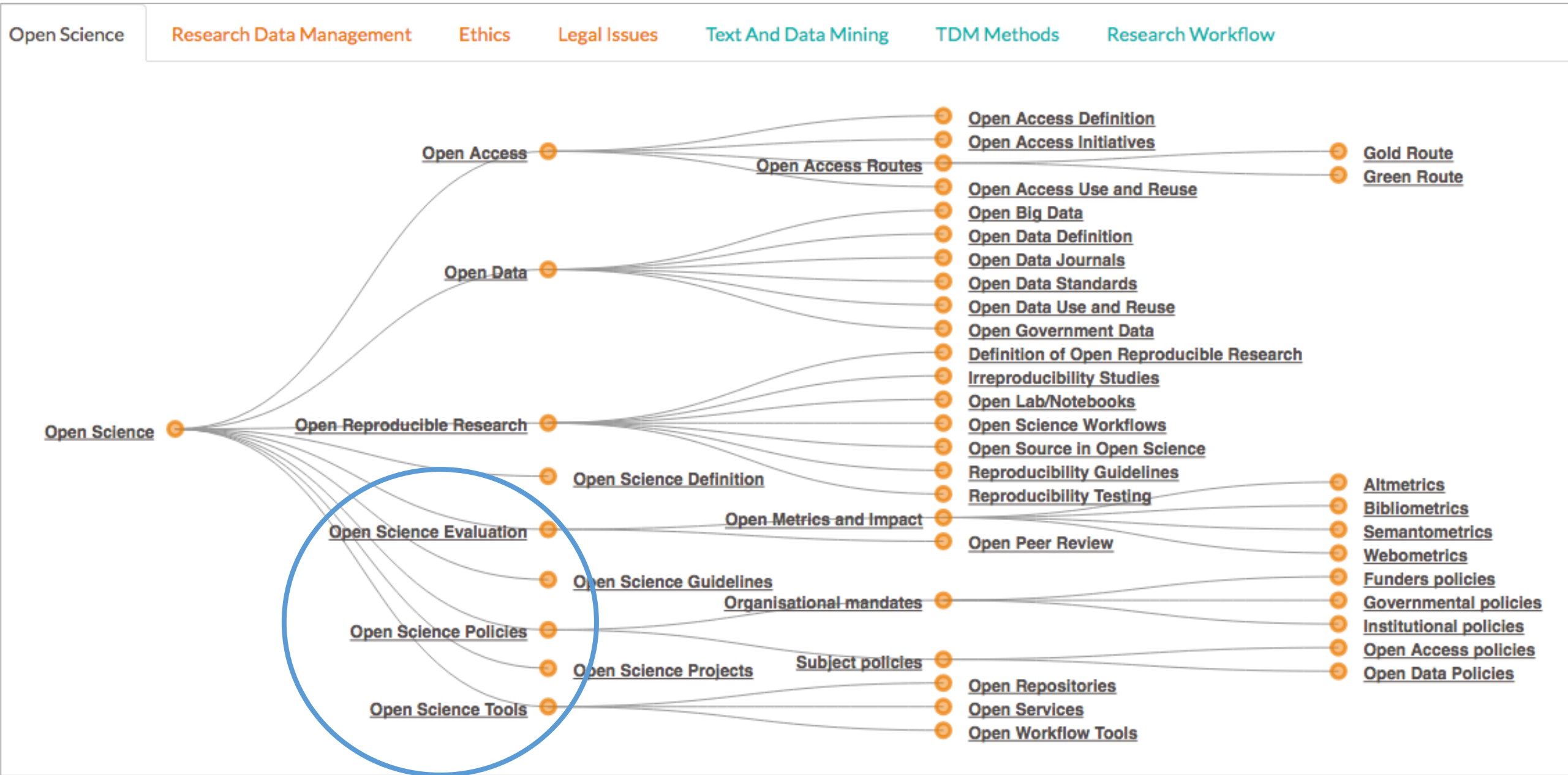
Open Science Policies



Open Access policies



Funders policies

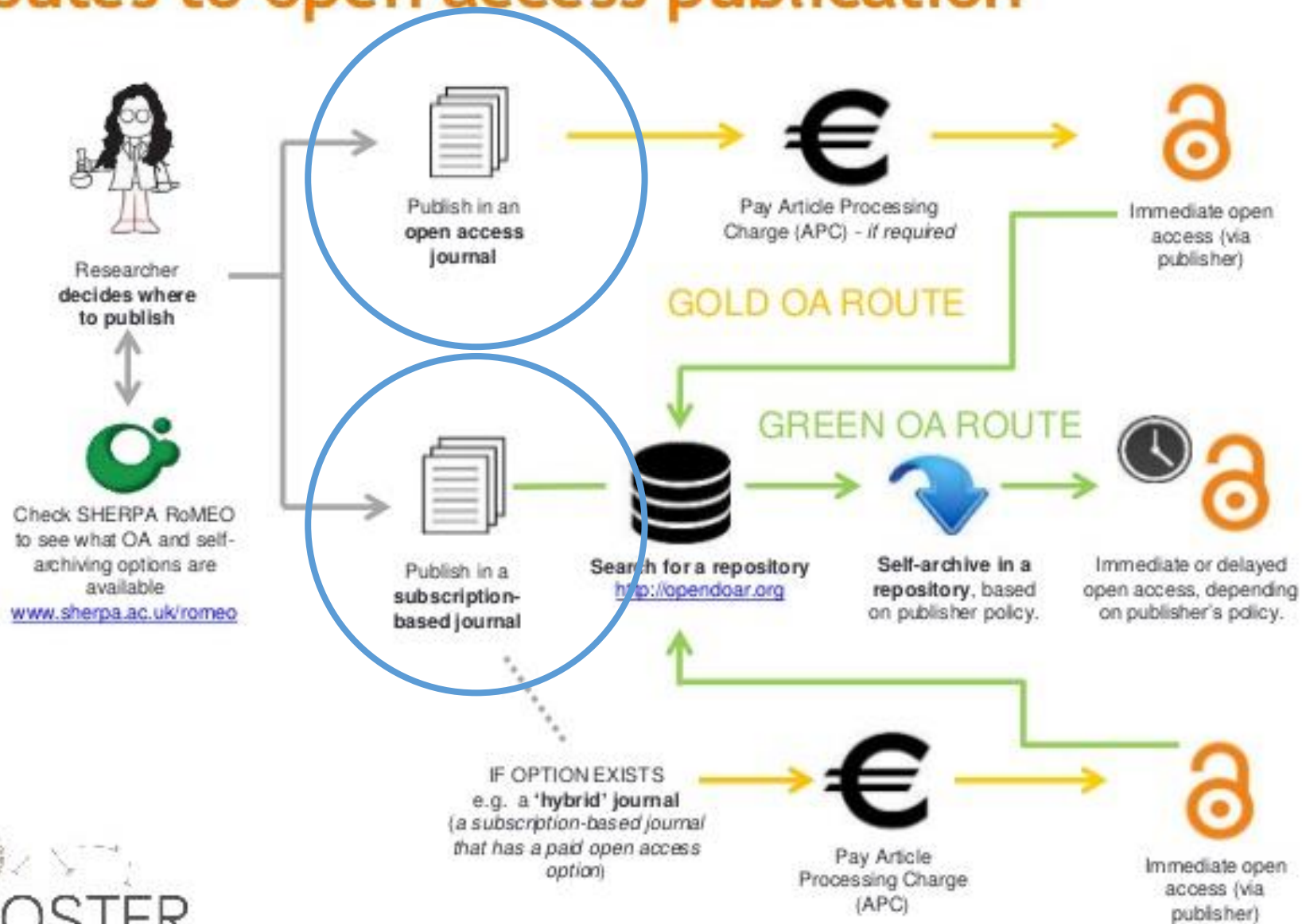




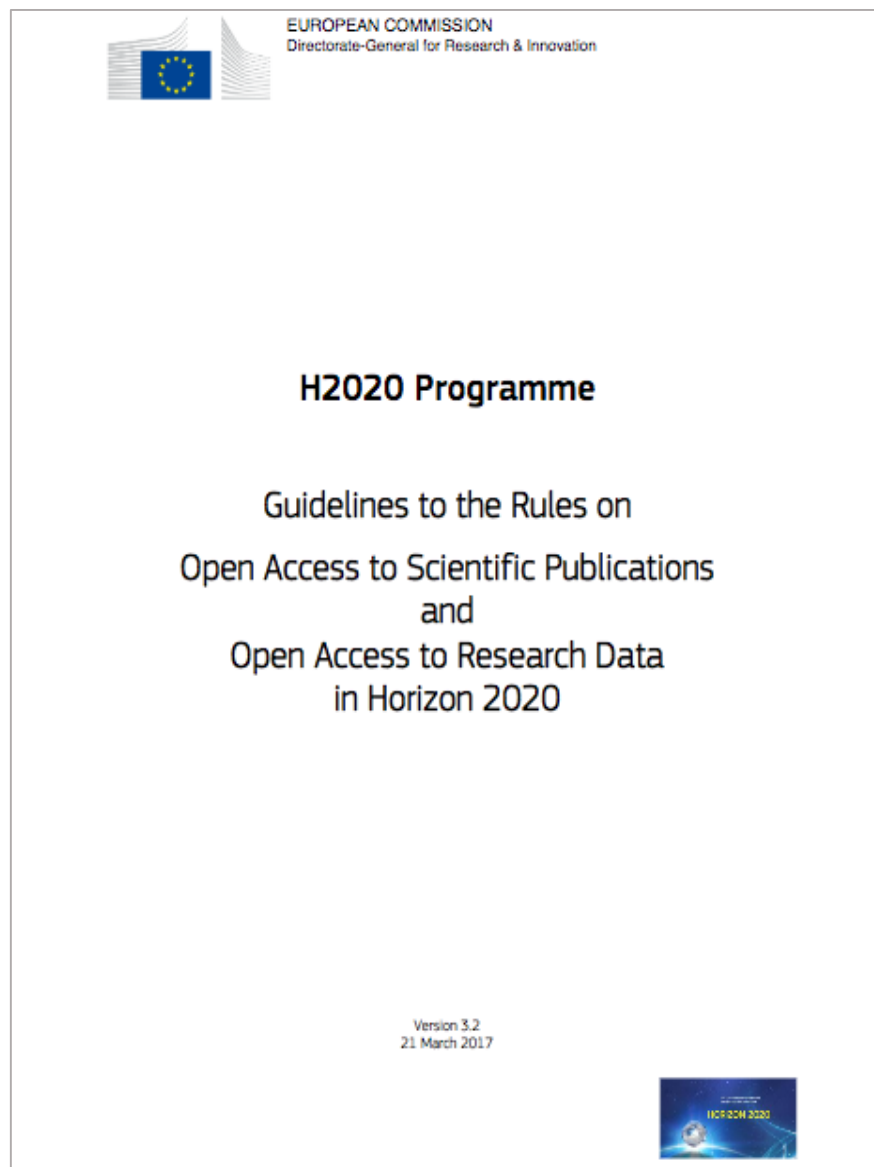
Routes to Open Access



Routes to open access publication



Open Access Policy



PP templates: Open Access Publishing Agreement: V1.0 – 20.03.2017

OPEN ACCESS PUBLISHING AGREEMENT

- Instructions and footnotes in blue should be deleted.
- For options [in square brackets]: choose the applicable option. Options not chosen should be deleted.
- For fields in [grey in square brackets]: enter the appropriate data.

ADDENDUM

(To be filled out by the beneficiary/author and the publisher. This model is not mandatory but reflects the obligations for the beneficiary under the H2020 grant agreements. It can be supplemented by further provisions agreed between the parties, provided they are compatible with the Grant Agreement. The Commission/Agency takes no responsibility for the use of this model.)

This 'Addendum' is **between** the following parties:

on the one part,

1. the publisher

[full official name (short name)], established in [official address in full], represented by [...],

and

on the other part,

1. 'the corresponding author':

[full name], [official address in full], represented by [...]

and the following **other authors**

2. [full name], [official address in full], represented by [...]

3. [full name], [official address in full], represented by [...]

[same for each author].

With this Addendum, the **parties agree** to **complement** and **amend** the attached Publication Agreement concerning the publication [insert name of publication] in the Journal [insert name of journal] with the following open access clause:

Open access

The author(s) retain(s) the right to:

1

Open Access Policy

- Open Access to publications by means of deposit in an institutional repository:
 - on publication (free publisher's electronic version) or
 - within 6 months of publication (12 for social sciences and humanities)



*Horizon 2020: the EU Framework Programme
for Research and Innovation*



Impact of open access



The Open Citation Project - Reference Linking and Citation Analysis for Open Archives

See also [Papers produced by the project](#)

The effect of open access and downloads ('hits') on citation impact: a bibliography of studies

Springer Link

» Sign up / Log in English Academic edition

Search

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Download PDF (1,578 KB) View Article

Scientometrics
May 2015, Volume 103, Issue 2, pp 555-564
Date: 12 Mar 2015

The open access advantage considering citation, article usage and social media attention

Xianwen Wang, Chen Liu, Wenli Mao, Zhichao Fang

Download PDF (1,578 KB)

View Article

The cover of the journal Scientometrics, featuring a gold background with a circular emblem and the text "Look Inside" with a right arrow.

Article Metrics

1

Citation

457

Social Shares

Latest articles on OA impact

This update service is no longer available following the closure of Connotea. It may be resumed if a suitable alternative is found.

[Open access impact factors](#) | [Open](#)


ments, please tweet


OA impact biblio rapid reader

Top five most-cited papers from this bibliography, measured by Google Scholar

1 Lawrence, S., [Free online availability substantial](#)

Copyright

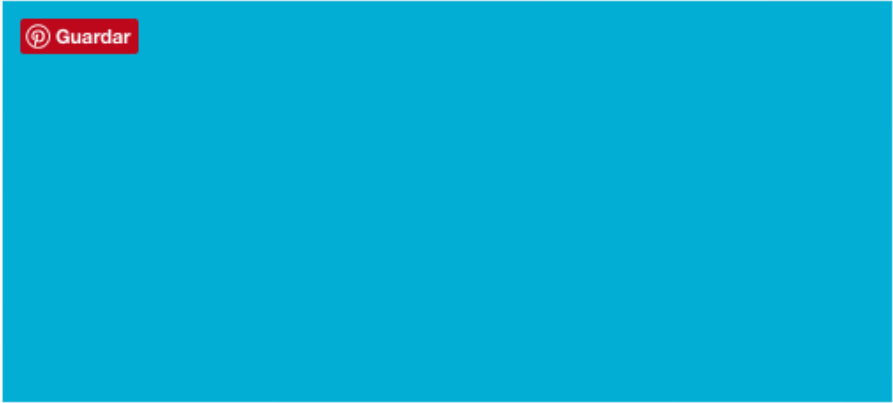

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State of the Commons 2016

We're celebrating our community with this year's State of the Commons report, exploring the wide array of creativity and knowledge made freely available via CC licenses.

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Support to researchers in Open Access

The image displays a collage of overlapping screenshots of various open access research platforms, illustrating the support available to researchers. The most prominent screenshot is the Zenodo homepage, which features a blue header with the Zenodo logo, a search bar, and navigation links for Upload, Communities, Log in, and Sign up. The main content area shows 'Recent uploads' with two entries: 'Pre-processed B cell receptor sequences from BioProject PRJNA349143' (uploaded June 3, 2017) and 'Modeling of the Nup84 subcomplex of the Nuclear Pore Complex' (uploaded August 26, 2014). Both entries are marked as 'Dataset' and 'Open Access'. To the right of the Zenodo screenshot, other platforms are visible, including the Directory of Open Access Journals (DOAJ) with the text '... opening access to research', SHERPA/ROMEO, and OpenAIRE. A sidebar on the right contains links for 'About', 'Português', 'login', 'RSS1 Feed', '16-', 'SC', and 'Contact us'.

zenodo Search Upload Communities Log in Sign up

Recent uploads

June 3, 2017 (v2) Dataset Open Access View

Pre-processed B cell receptor sequences from BioProject PRJNA349143

Gupta, Namita; Laserson, Uri; Vander Heiden, Jason

Processed sequencing data from BioProject PRJNA349143. Study Design Samples were collected from human volunteers as described in Laserson and Vigneault et al, 2014 (1). Briefly, blood samples were collected from three individuals both pre- and post-vaccination for seasonal influenza. Samples...

Uploaded on June 30, 2017
1 more version(s) exist for this record

August 26, 2014 (v4) Dataset Open Access View

Modeling of the Nup84 subcomplex of the Nuclear Pore Complex

Shi, Yi; Fernandez-Martinez, Javier; Tjioe, Elina; Pellarin, Riccardo; Kim, Seung Joong; Williams, Rosemary; Schneidman-Duhovny, Dina; Rout, Michael; Sali, Andrej; Chait, Brian

These scripts demonstrate the use of IMP, MODELLER, and PMI in the modeling of the Nup84 complex using 286 DSS/EDC chemical cross-links and an electron microscopy (EM) 2D class average. First, MODELLER is used to generate initial structures for the individual components in the Nup84 complex....

Uploaded on June 29, 2017

Zenodo now supports DOI versioning! Read more about it, in our newest blog post.

Using GitHub? Just Log in with your GitHub account and click here to start preserving your repositories.

Zenodo in a nutshell

- **Research. Shared.** — all research outputs from across all fields of research are welcome! Sciences and Humanities, really!
- **Citeable. Discoverable.** — uploads gets a Digital Object Identifier (DOI) to make them easily and uniquely citeable.

DOAJ ... opening access to research

SHERPA/ROMEO

OpenAIRE

• About login

Português

RSS1 Feed

16-

SC

VIDERS

ent more visible. What quality. How to join.

Contact us

EVALUATION

Traditional and
alternative metrics

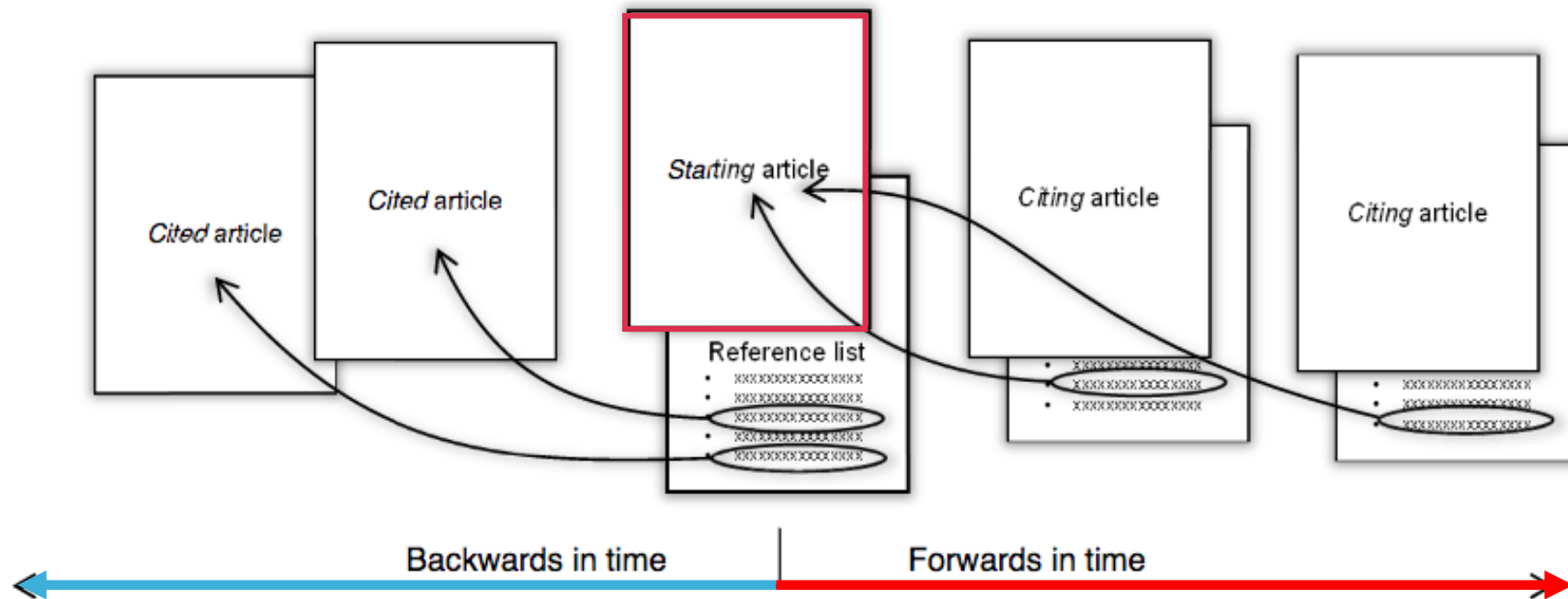


Evaluation: citation analysis



- **BIBLIOMETRICS:**
 - quantitative analysis of research literature based on citations
- **CITATION ANALYSIS:**
 - number of times papers and/or authors have been cited by others


Citations chaining is based on the counts of cited articles (backwards in time) and citing articles (forwards in time)



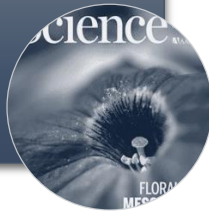
Source: Citation Chaining. 2012. University of Sydney Library


Metrics for evaluation

There are many different metrics applied to a different levels

- Impact Factor 
- Eigenfactor
- Scimago Journal Rank (SJR)
- SNIP


Journal level



- Document count
- H-index 
- G-index
- i10-Index

Author level




- Citation count 
- Usage
- Social web mentions

Article level



What are metrics used for?

- 
- To identify top performing journals in a subject area (quartiles)
 - To demonstrate impact of a researcher or research group
 - To find out more about a field or topic (related documents)
 - To track and measure the impact (journal, author, article)
 - To identify top researchers (potential collaborators or competitors)

Metrics' evolution

ACADEMIC ATTENTION



Traditional metrics

- Citation counts
- Number of publications
- Journal Impact Factor
- Scimago Journal Rank
- H-index
- Etc.

Metrics available after 2-5 years



BROADER ATTENTION



Alternative metrics = Altmetrics

- Mentions in news reports
- References in policy
- Mentions in social media
- Mentions in blogs
- Wikipedia references
- Reference managers
- Etc.

Metrics available immediately

Tools to track (traditional) metrics

SearchSearch Results

My ToolsSearch HistoryMarked List

Citation report for 475 results from Web of Science Core Collection between 1900 and 2017Go

Author details

The Scopus Author Identifier assigns a unique number to groups of documents written by the same author via an algorithm that matches authorship based on a certain criteria. If a document cannot be confidently matched with an author identifier, it is grouped separately. In this case, you may see more than 1 entry for the same author.

WebImagesMore...

up404668@g.uporto.pt

Google

"Adsorption Equilibrium of Methane, Carbon Dioxide, and Nitrogen on Zeolit"

Search

Scholar

My Citations

Articles

Case law

My library

Any time

Since 2017

Since 2016

Since 2013

Custom range...

Sort by relevance

Sort by date

☒ include patents

☒ include citations

Adsorption equilibrium of methane, carbon dioxide, and nitrogen on zeolite 13X at high pressures

S Cavenati, CA Grande... - Journal of Chemical & ..., 2004 - ACS Publications

High-pressure adsorption of methane, carbon dioxide, and nitrogen on zeolite 13X was measured in the pressure range (0 to 5) MPa at (298, 308, and 323) K and fitted with the Toth and multisite Langmuir models. Isothermic heats of adsorption were (12.8, 15.3, and 37.2) kJ/mol for nitrogen, methane, and carbon dioxide respectively, which indicate a very strong adsorption of carbon dioxide. The preferential adsorption capacity of CO₂ on ...

Cited by 701Related articlesAll 11 versionsWeb of Science: 521CiteSaveMore

Showing the best result for this search. See all results

[HTML] acs.org

Texto Integral@b-on

Citations

1882

0

7

2016

documents

documents

documents

About Google Scholar

Privacy

Terms

Provide feedback

Tools to track (traditional) metrics

The screenshot shows the Scimago Journal & Country Rank interface. The top navigation bar includes 'SJR', 'Scimago Journal & Country Rank', and a search bar. Below this is a secondary navigation bar with 'Home', 'Journal Rankings', 'Country Rankings', 'Viz Tools', 'Help', and 'About Us'. The main content area features several filters: 'Environmental Science' (dropdown), 'Environmental Engineering' (dropdown), 'All regions / countries' (dropdown), 'All types' (dropdown), and '2016' (dropdown). There are also checkboxes for 'Display only Open Access Journals' and 'Display only SciELO Journals (In Progress)', a 'Display journals with at least' field set to 0, and a 'Citable Docs. (3years)' dropdown. A 'Download data' button and a pagination indicator '1 - 50 of 158' are also present.

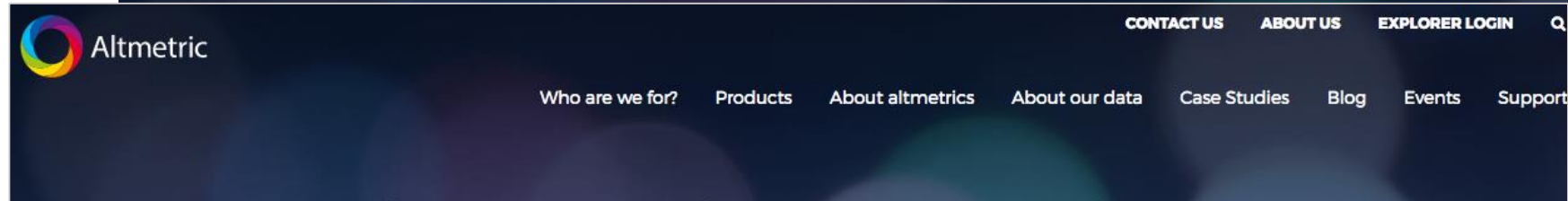
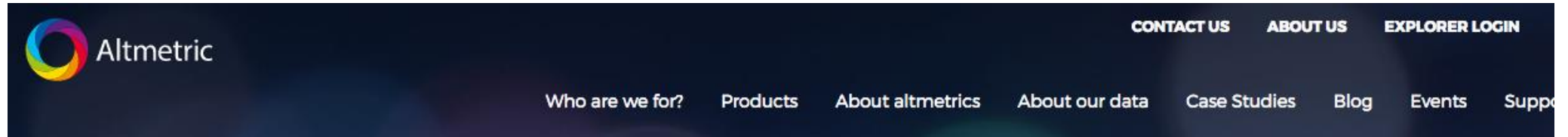
The main table displays the following data:

Title	Type	↓ SJR	H index	Total Docs. (2016)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.
1 Bioresource Technology	journal	2.191 Q1	216	1665	5089	54795	30004	5037	5.74	32.91
2 Building and Environment	journal	2.015 Q1	102	389	1059	18729	4747	1045	4.31	48.15
3 Coastal Engineering	journal	1.980 Q1	83	131	379	5530	1242	352	3.46	42.21
4 Environmental Modelling and Software	journal	1.936 Q1	98	296	748	17537	3507	721	4.51	59.25

Two red callout bubbles provide additional context:

- Journal Citation Reports' rank for the category Engineering, Environmental** (points to the 'Citable Docs. (3years)' column).
- SCIMAGO Journal's rank for the category Environmental Engineering** (points to the '↓ SJR' column).

Tools to track (alternative) metrics



Advantages to using altmetrics

Altmetrics have a number of advantages over citation-based metrics:

They are quicker to accumulate than citation-based metrics: By virtue of being sourced from the Web and not from journals and books, it's possible to monitor and collate mentions of work online as soon as it's published.

They can capture more diverse impacts than citation-based metrics: As described above, altmetrics can complement citations in that they help you to understand the many ['flavours'](#) of impact research can have.

They apply to more than journal articles and books: Researchers are sharing their data, software, presentations, and other scholarly outputs online more than ever before. That means we can track their use on the Web as easily as we can for articles and books.

Examples of altmetrics in publishers' sites

The screenshot shows the PLOS ONE website interface. At the top, there's a navigation bar with the PLOS ONE logo, a 'TENTH ANNIVERSARY' banner, and links for 'Publish', 'About', 'Browse', and a search bar. The article title is 'Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea'. The authors listed are Marcus Eriksen, Laurent C. M. Lebreton, Henry S. Carson, Martin Thiel, Charles J. Moore, Jose C. Borerro, Francois Galgani, Peter G. Ryan, and Julia Reisser. The article was published on December 10, 2014. A red circle highlights a metrics box on the right side of the article, which contains four data points: 898 Saves, 224 Citations, 201,680 Views, and 1,183 Shares. Below the article title, there's a tabbed interface with 'Article', 'Authors', 'Metrics', 'Comments', and 'Related Content'. The 'Article' tab is selected. The abstract is visible, starting with 'Plastic pollution is ubiquitous throughout the marine environment...'. On the right side, there are buttons for 'Download PDF', 'Print', 'Share', and 'Check for updates'. At the bottom right, it says 'Included in the Following Collections' and lists 'Editor's Picks: Ocean Sciences'.

plos.org create account sign in

Publish About Browse Search advanced search

OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea

Marcus Eriksen, Laurent C. M. Lebreton, Henry S. Carson, Martin Thiel, Charles J. Moore, Jose C. Borerro, Francois Galgani, Peter G. Ryan, Julia Reisser

Published: December 10, 2014 • <https://doi.org/10.1371/journal.pone.0111913>

Article	Authors	Metrics	Comments	Related Content
898 Save	224 Citation	201,680 View	1,183 Share	

Download PDF Print Share

Check for updates

Included in the Following Collections

Editor's Picks: Ocean Sciences

Examples of altmetrics in publishers' sites

nature International weekly journal of science

Home | News & Comment | Research | Careers & Jobs | Current Issue

Archive | Volume 485 | Issue 7397 | Reviews | Article metrics

Article metrics for:

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Research metrics for evaluation

Be aware of

Quality

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Golden rules

Use both quantitative
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approaches

Use more than one
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Metrics help, but
QUALITY
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What are they used for?

Author name ambiguity

Different authors
with the same
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Each author should have
an unique identifier to
distinguish him from the
others

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different names



Each author should have
an unique identifier to
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
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
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Biography

Vítor J.P. Vilar graduated (FEUP) in 2001. He received a chemical engineering first degree in Chemical Engineering from the University of Porto, Portugal. Between May 2009 and December 2013, he was an environmental monitoring researcher, between September 2009 and December 2013, he was a post-graduation in Environmental Engineering-Laboratory under Ciência 2008 program under Investigator FCT 2009 in the Federal University of Rio de Janeiro. He has been teaching at FEUP since 2001 and environmental engineering at the Pollution Research (Springer) Oxidation Technologies

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