Co-funded by the Erasmus+ Programme of the European Union

BRAIN@WORK - Information competence as booster for prospective scientists
P.A. N. 2019-1-IT02-KA203-062829 - CUP B54I19001980006

PROJECT LOGO (COMING SOON)

Academic literature, challenges and methodologies

C1 BRAIN@WORK Program in Liège - Methodologies for embedding IL into scientific studies

Liège, Dec. 16 2019

As a reminder: Training program for scientists and doctoral students

Seven axes of training in the Research and Innovation Administration program:

- AXE 1 : Start your research
- AXE 2 : Develop your research
- AXE 3 : Keeping you professional project in mind
- AXE 4 : Communicate and disseminate your research
- AXE 5 : Ethics and quality in research
- AXE 6 : Open science / Open research
- AXE 7 : Leadership in research

ULiège Library in the programs of transversal training courses:

- **Axe 1: start your research**
  - ➔ Module 1: Sources of Scientific Information, Issues and Methodology
  - ➔ Module 2: Advanced scientific information search method
  - ➔ Module 2b: Introduction to bibliometric indicators
  - ➔ module 3: Use of bibliographic management software (Zotero, Mendeley, Jabref)
- **Axe 2: develop your research**
  - ➔ Module 5: Researching Evidence in Clinical Sciences
- **Axe 4: Communicate and disseminate your research**
  - ➔ Module 4: Principle of scholarly communication
  - ➔ Module 4b: Encode your thesis in LaTex
- **Axe 6: Open Science / Open research**
  - ➔ Module 6: Principles of open access
  - ➔ Module 7: Copyright and open access
  - ➔ Module 8: DMPonline.be : Tool to help you write a data management plan

ULiège Library in the programs of transversal training courses: my interventions

- **Axe 1: start your research**
  - ➔ Module 1: Sources of Scientific Information, Issues and Methodology
  - ➔ Module 2: Advanced scientific information search method
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- **Axe 6: Open Science / Open research**
  - ➔ Module 6: Principles of open access
  - ➔ Module 7: Copyright and open access
  - ➔ Module 8: DMPonline.be : Tool to help you write a data management plan

Learning outcomes (three modules)

- Find your place, as a **reader** and as an **author**, in the network of academic communication;
- Find and obtain scientific information independently;
- Be able to synthesize and restore the **information** obtained;
- Integrate the main rules for writing a **bibliography**;
- Understand the principles and rules of **writing** a scientific paper;
- Write the different parts of an **article**;
- **Avoid the problems** usually encountered (systematic causes of rejection).

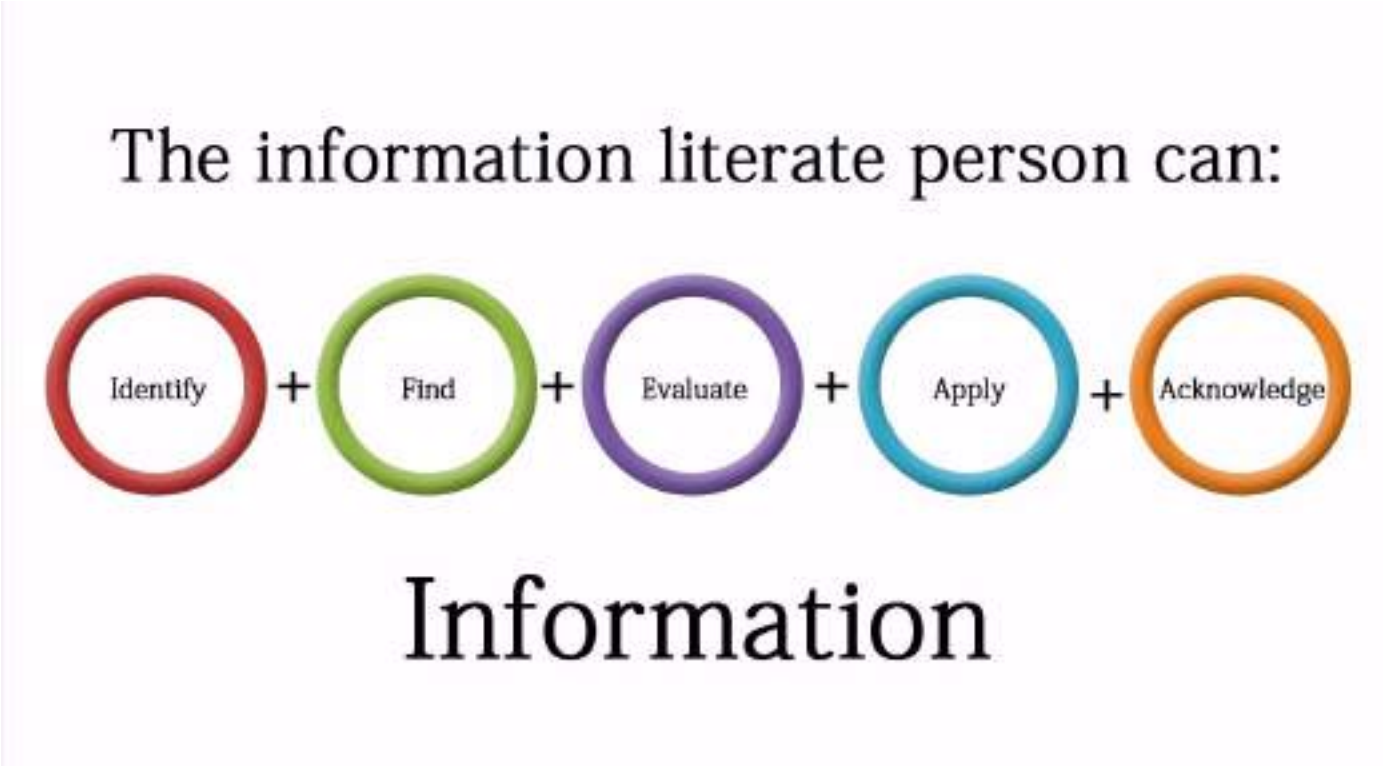
Main objectives (this module)

- Understand the processes of the academic literature, measure its:
  - ➔ ethics aspects
  - ➔ economic aspect
  - ➔ technical aspects

  ... to know what we're looking for
- Discover the extended literature search tools :
  - ➔ their diversity
  - ➔ their languages

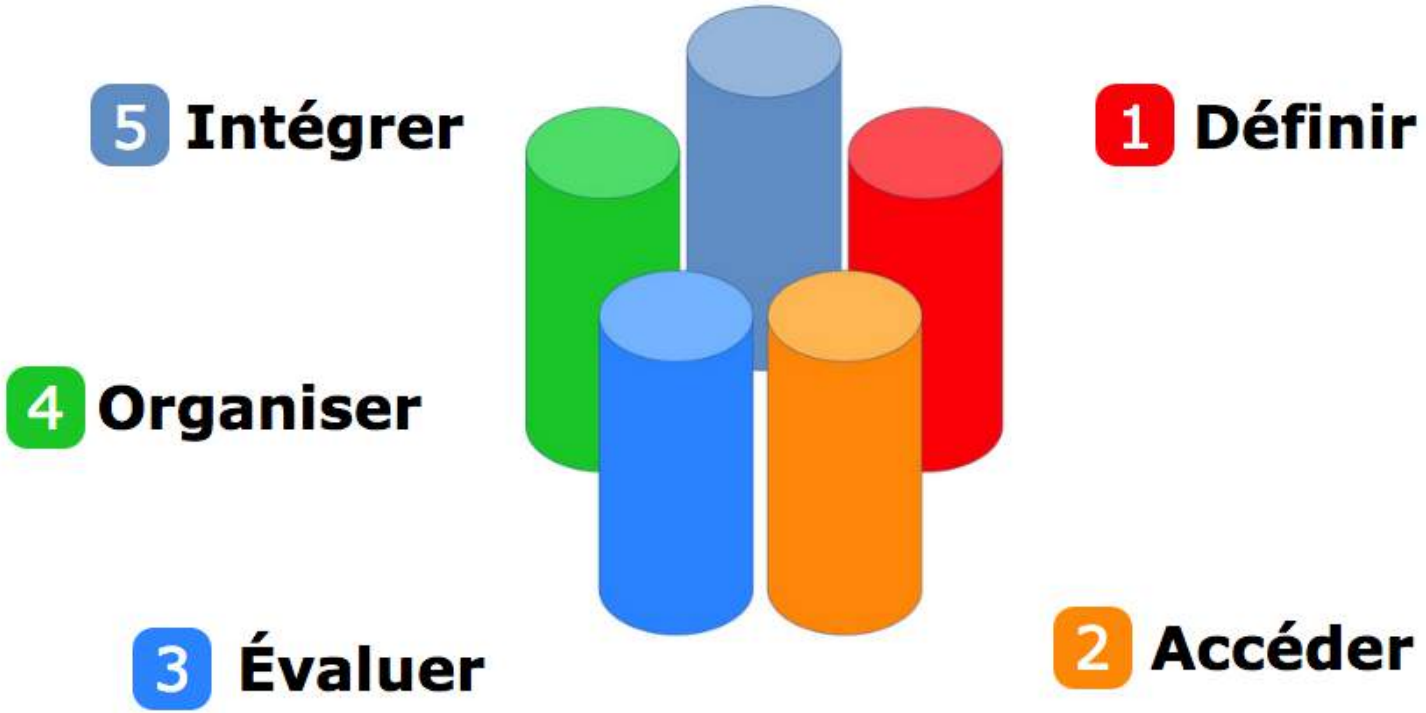
  ... to understand how to search
- Train critical analysis

Basic concept for courses: Information Literacy



(Nichole Ackerman Martin, 2014)

Structure for courses: 5PMIS



This ULiège Framework for Scientific Information Literacy will be presented tomorrow morning

All supports for this course are there:

https://infolit.be/

Scientific communication is:

- Processes
- Documents
- Bibliometry and quality evaluation
- Publication and diffusion
- Bibliographic tools (to find the documents)

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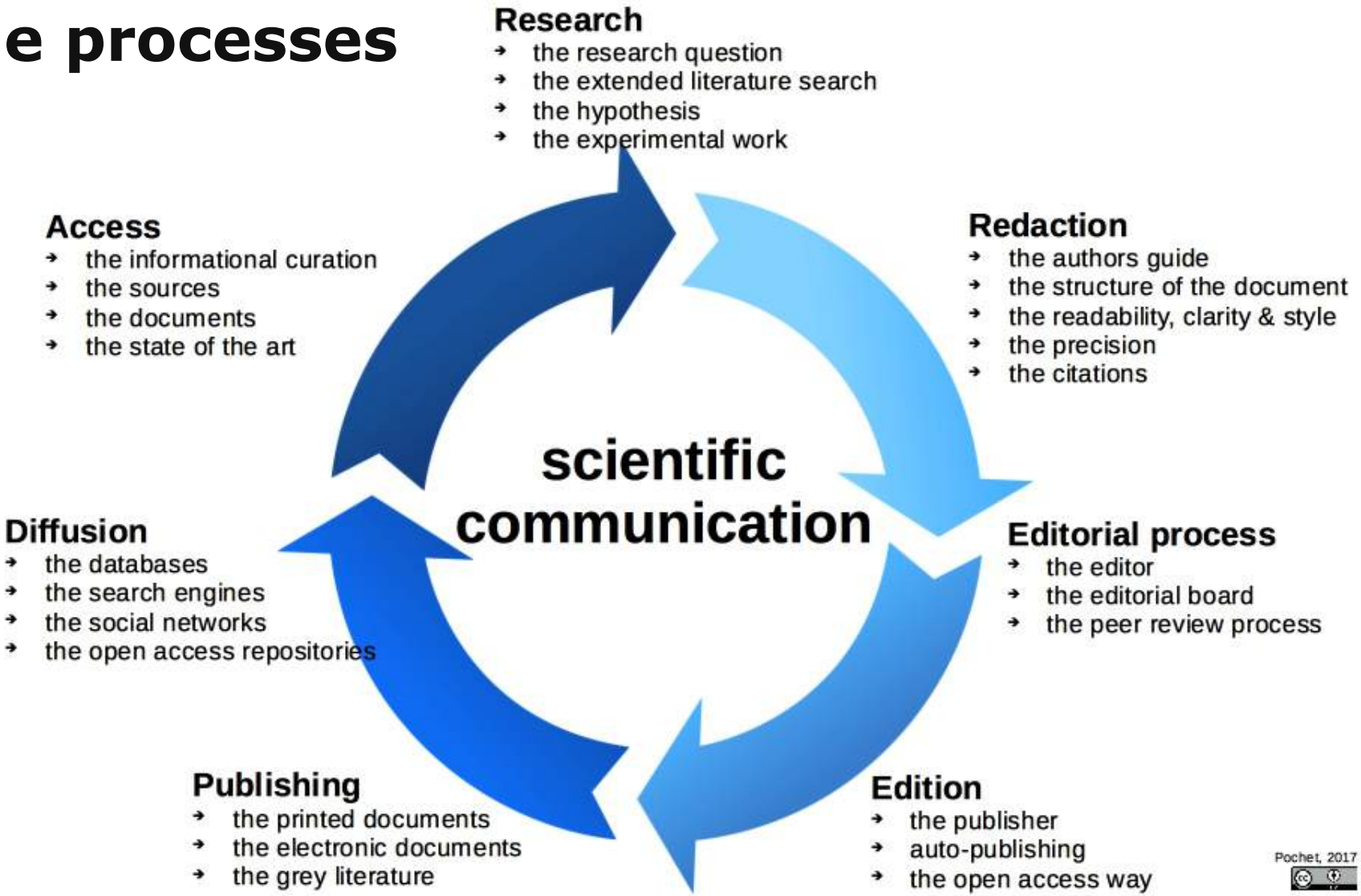
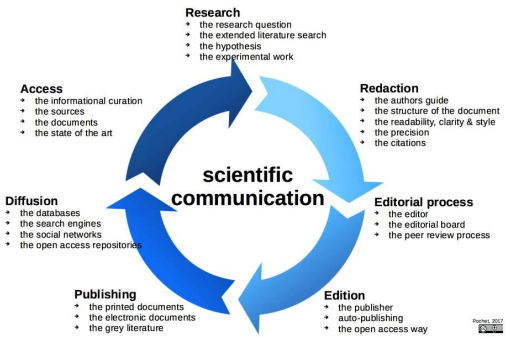
The processes

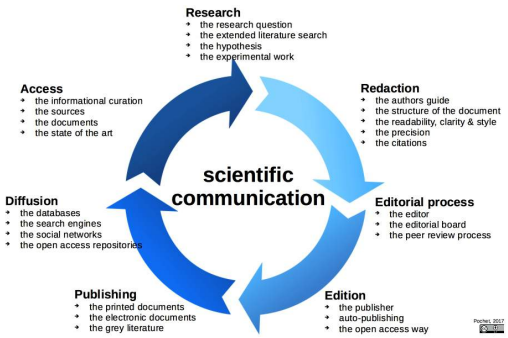


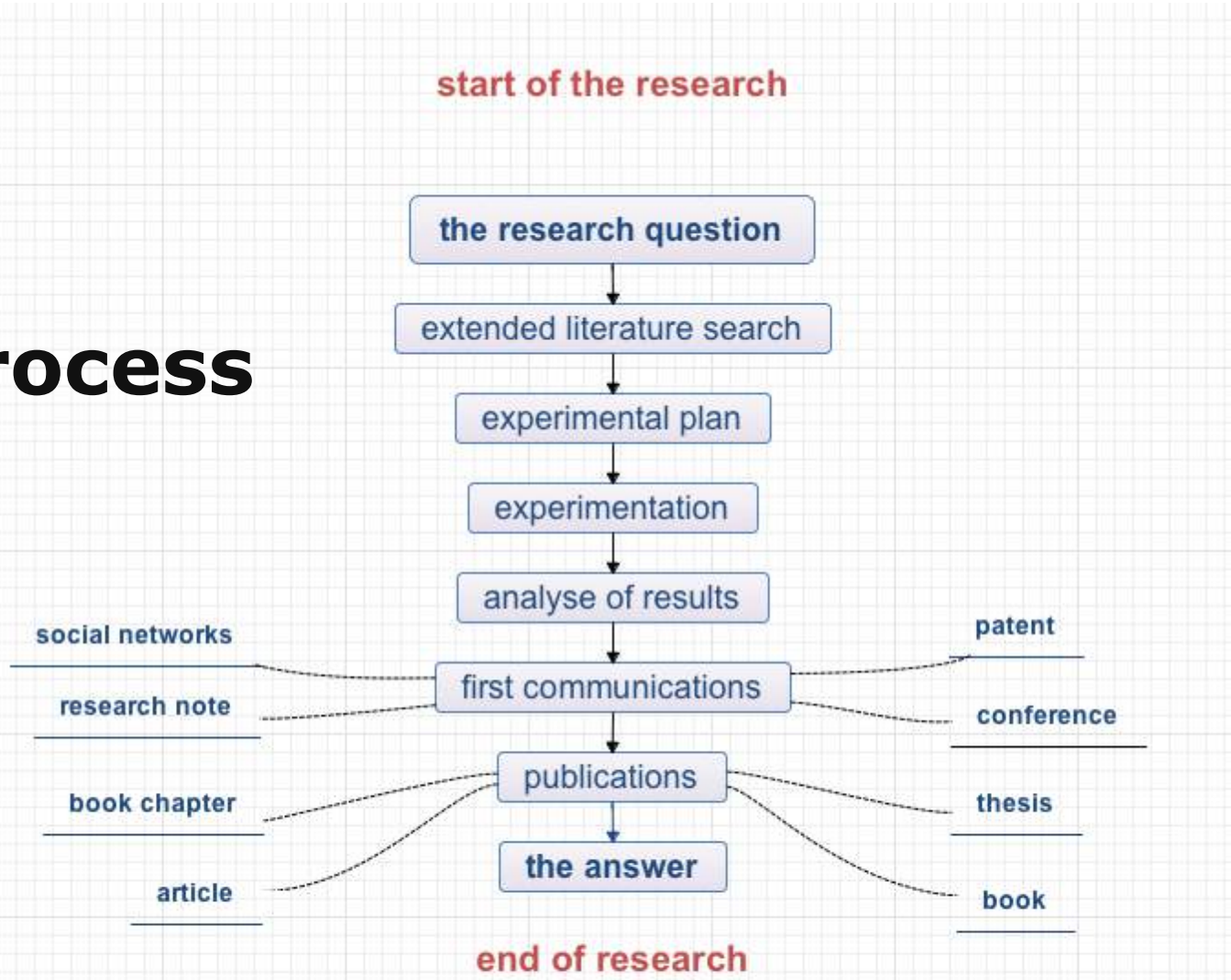
Some processes

- ✔ Research process
  - ➔ From the research question to the answer
- ✔ Publication process
  - ➔ From submission to the diffusion
- ✔ Extended research process
  - ➔ From the question to the answer ...

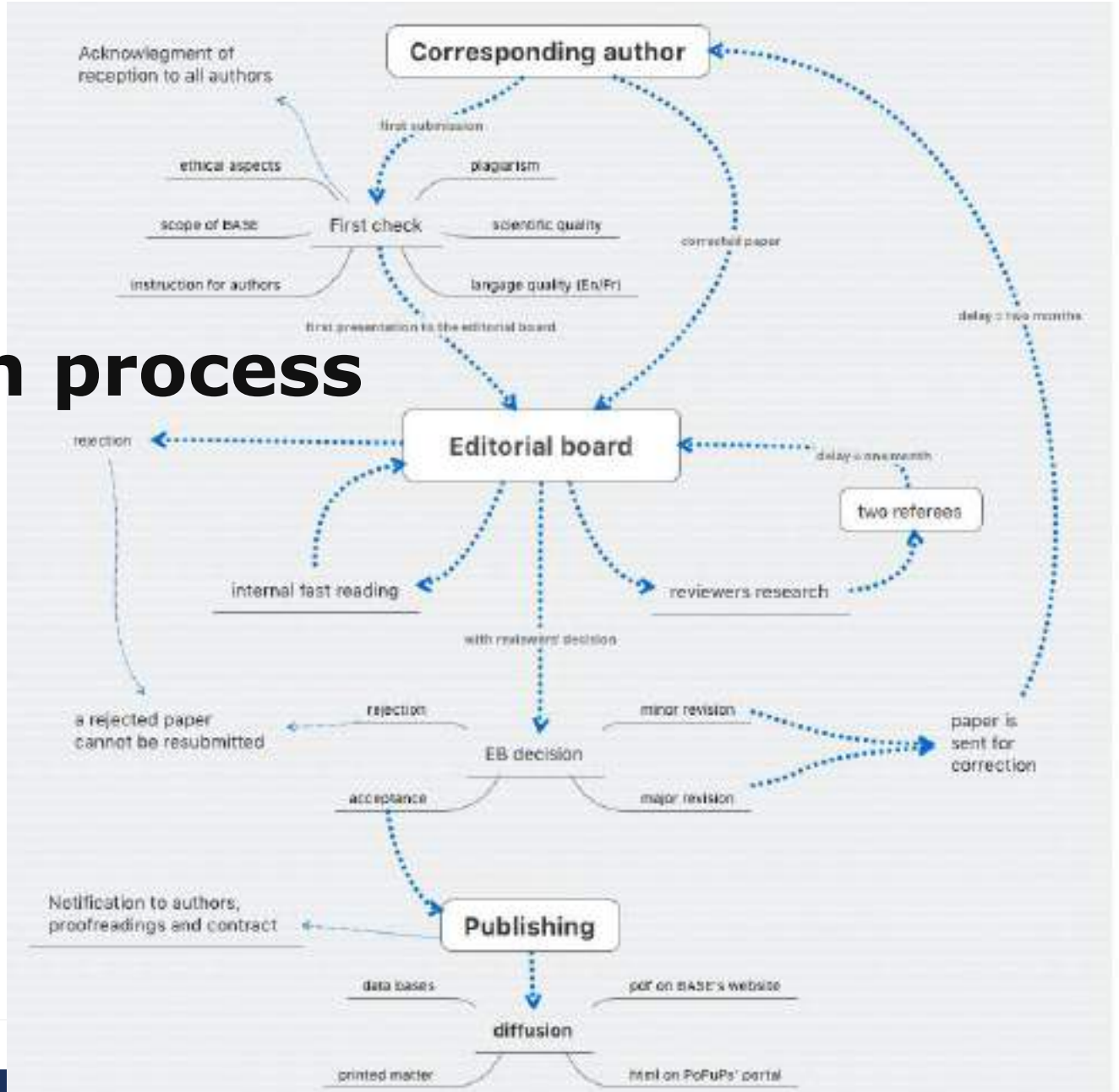


the research process

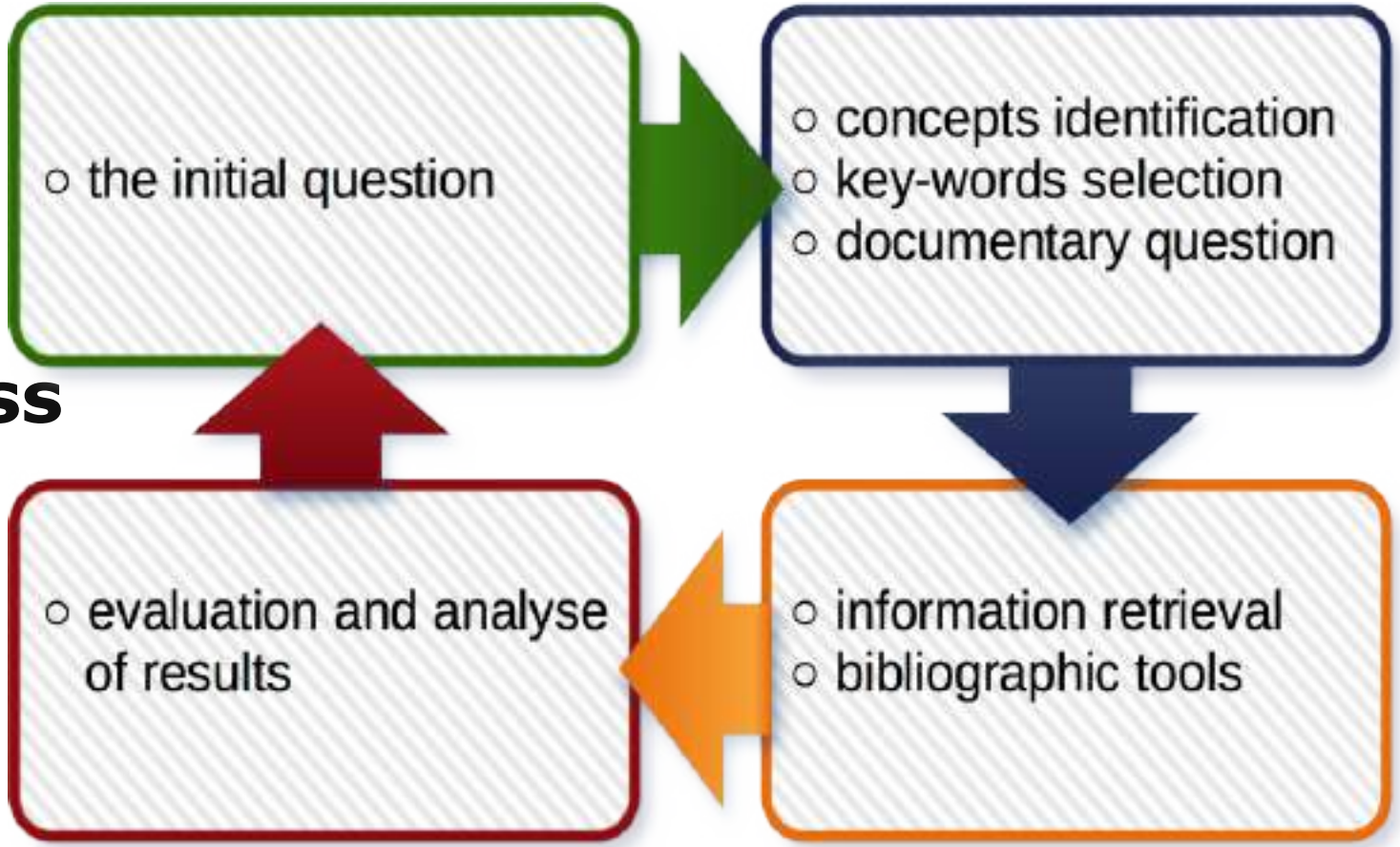


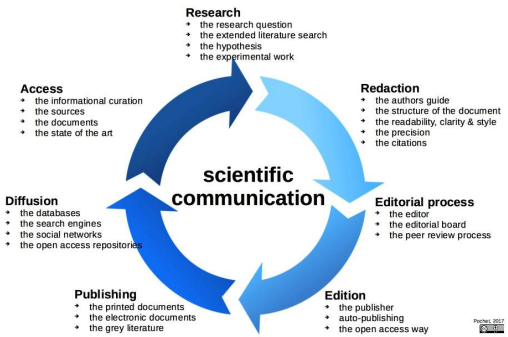


the publication process



the extended literature search process





Scientific communication is:

- Processes
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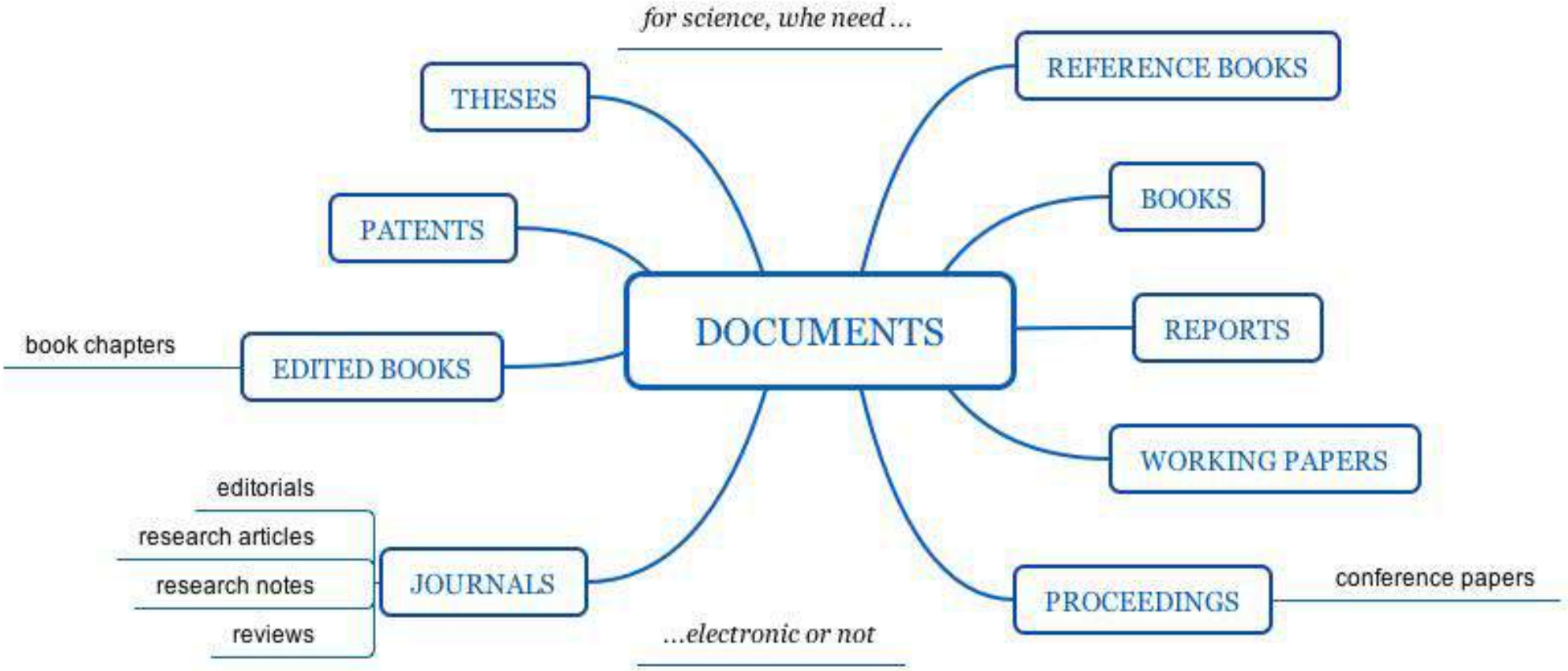
- Publication and diffusion
- Bibliographic tools (to find the documents)


for science, whe need ...
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book chapters
EDITED BOOKS
WORKING PAPERS
editorials
research articles
research notes
reviews
JOURNALS
PROCEEDINGS
conference papers
...electronic or not

Do you see the distinction between?

A Book: Walsh, J., 2011. *Information literacy instruction: selecting an effective model*. Oxford: Chandos Publishing.

and

An edited book: Chuanfu C. & Ronald L. eds., 2014. *Library and Information Sciences: Trends and Research*. Berlin, Heidelberg: Springer Berlin Heidelberg.

Containing chapters: Phelps J.V. et al., 2014. A group discussion on information literacy. *In:* Chuanfu C. & Ronald L. eds. *Library and Information Sciences: Trends and Research*. Springer-Verlag Berlin Heidelberg, pp. 21–28.

And between?

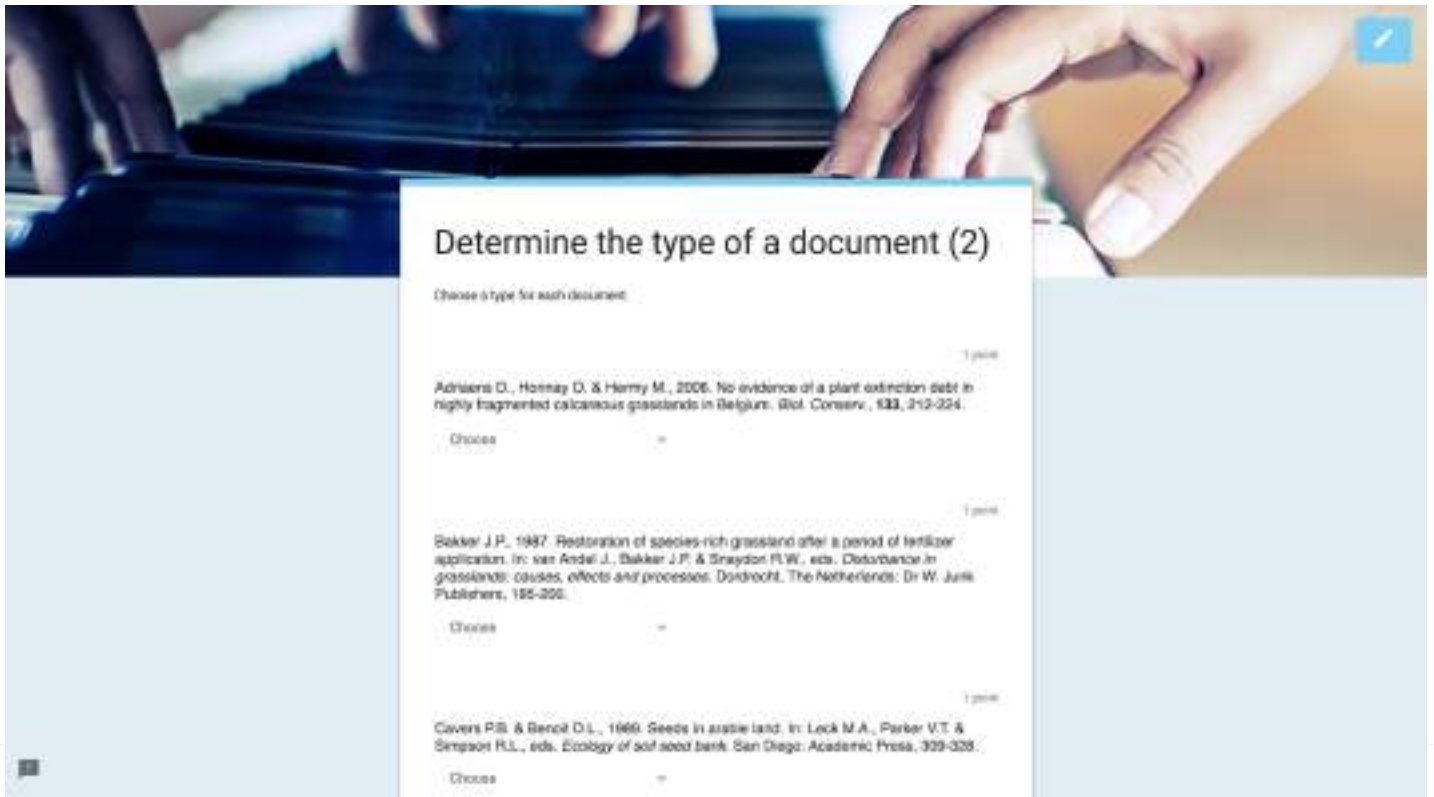
A chapter in an edited book (the same): Phelps J.V. et al., 2014. A group discussion on information literacy. *In:* Chuanfu C. & Ronald L. eds. *Library and Information Sciences: Trends and Research*. Springer-Verlag Berlin Heidelberg, pp. 21–28.

and

An article in a Journal: Detlor B. et al., 2011. Learning outcomes of information literacy instruction at business schools. *Journal of the American Society for Information Science and Technology*, **62**(3), 572–585.

Test your ability with this short exercise:

https://infolit.be/S4



Scientific communication is:

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Why metrics?

- The origin is the « *Publish or perish* » injunction to the researchers :
  - Publication = evaluation of research(ers)
  - Importance of being able to measure the "value of the production"
- The primary (oldest) tool is the “Impact factor”
  - Count a number of citations of papers of a journal
  - Does not measure quality but number of citations
  - Inequality between domains (biotechnology ++)
  - Essentially Anglo-Saxon journals
  - Never give a level of quality of a paper/scientist!

2017 Journal Impact Factor = 66 / 83 = 0.795

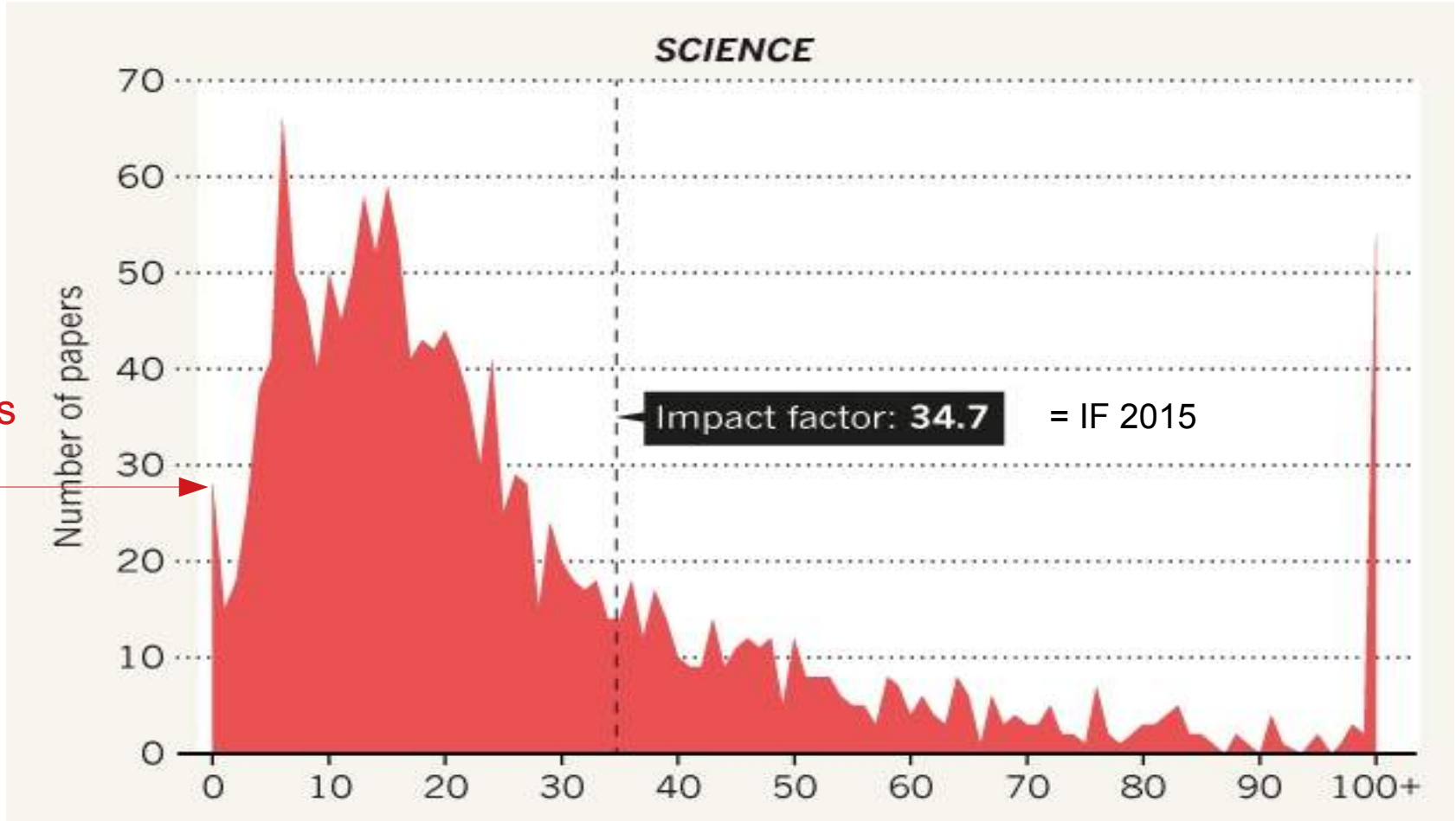
How is Journal Impact Factor Calculated?

$$JIF = \frac{\text{Citations in 2017 to items published in } \textbf{2015 (26) + 2016 (40)}}{\text{Number of citable items in } \textbf{2015 (39) + 2016 (44)}} = \frac{66}{83}$$

Citable items in 2016 and 2015 (83) | Citations in 2017 (66)

TITLE	CITATIONS COUNTED TOWARDS JIF
Grasshoppers as a food source? A review	7
By: Paul, Aman; Frederich, Michel; Uyttenbroeck, Roel; Hatt, Severin; Malik, Priyanka; et al.	
Volume: 20 Page: 337-352 Accession number: WOS:000378130900012 Document Type:Review	
Transgenic crops with an improved resistance to biotic stresses. A review	4
By: Tohidfar, Masoud; Khosravi, Solmaz	
Volume: 19 Page: 62-70 Accession number: WOS:000369860400007 Document Type:Article	
A review on the use of sensors to monitor cattle jaw movements and behavior when grazing	4
By: Andriamandroso, Andriamasinoro Lalaina Herinaina; Bindelle, Jerome; Mercatoris, Benoit; Lebeau, Frederic	
Volume: 20 Page: 273-286 Accession number: WOS:000378130900007 Document Type:Review	
Impact of drying and heat treatment on the feeding value of corn. A review	3
By: Odjo, Sylvanus D. P.; Malumba, Paul K.; Beckers, Yves; Bera, Francois	
Volume: 19 Page: 301-312 Accession number: WOS:000361386900009 Document Type:Article	
Microalgae as a potential source of single-cell proteins. A review	3
By: Barka, Abakoura; Blecker, Christophe	
Volume: 20 Page: 427-436 Accession number: WOS:000384306300008 Document Type:Review	

the impact factor is a mean (number of citations divided by number of papers produced)



28 papers with 0 citation !

IF can never be attributed to a paper!

Other bibliometric tools

- *Scopus (owned by …. Elsevier)*
- *The tools who use Google Scholar data*
- *The alt-metrics based on:*
  - *blogs*
  - *downloads*
  - *Tweets*
  - *Facebook posts*
  - *...*

Scopus

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- 2018 (16)
- 2017 (24)
- 2016 (47)
- 2015 (38)

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Author name
- Thonart, P. (48)
- Baudoin, J.P. (43)
- Francis, F. (25)
- Haubruge, E. (24)

Documents Secondary documents Patents

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	Document title	Authors	Year	Source	Cited by
1	Optimization of a reliable, Fast, Cheap and sensitive silver staining method to detect SSR markers in polyacrylamidegels | [Développement d'une méthode fi able, rapide, économique et sensible de coloration au nitrate d'argent pour la détection des marqueurs SSR sur gels de polyacrylamide]	Benbouza, H., Jacquemin, J.-M., Baudoin, J.-P., Mergeai, G.	2006	Biotechnology, Agronomy and Society and Environment 10(2), pp. 77-81	192
2	Beneficial effect of the rhizosphere microbial community for plant growth and health | [Effet bénéfique de la communauté microbienne de la rhizosphère sur la croissance et la santé des plantes]	Nihorimbere, V., Ongena, M., Smargiassi, M., Thonart, P.	2011	Biotechnology, Agronomy and Society and Environment 15(2), pp. 327-337	132
3	From biological membranes to biomimetic model membranes | [Des membranes biologiques aux modèles membranaires biomimétiques]	Eeman, M., Deleu, M.	2010	Biotechnology, Agronomy and Society and Environment	108

View abstract Related documents

Citation count to create metrics (// IF)

Source details

Biotechnology, Agronomy and Society and Environment

Formerly known as: Bulletin des Recherches Agronomiques de Gembloux

Open Access

Scopus coverage years: from 1997 to Present

Publisher: Universitaire des Sciences Agronomiques

ISSN: 1370-6233 E-ISSN: 1780-4507

Subject area: Social Sciences: Geography, Planning and Development | Agricultural and Biological Sciences: Agronomy and Crop Science | Agricultural and Biological Sciences: Forestry | Agricultural and Biological Sciences: Plant Science | Biochemistry, Genetics and Molecular Biology: Biotechnology

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1.21

SJR 2018
0.344

SNIP 2018
0.716

CiteScore | CiteScore rank & trend | CiteScore presets | Scopus content coverage

CiteScore 2018

Calculated using data from 30 April, 2019

$$1.21 = \frac{\text{Citation Count 2018}}{\text{Documents 2015 - 2017*}} = \frac{132 \text{ Citations}}{109 \text{ Documents}}$$

*CiteScore includes all available document types

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CiteScoreTracker 2019

Last updated on 08 December, 2019
Updated monthly

$$1.68 = \frac{\text{Citation Count 2019}}{\text{Documents 2016 - 2018}} = \frac{146 \text{ Citations to date}}{87 \text{ Documents to date}}$$

CiteScore rank

Category	Rank	Percentile
Social Sciences └ Geography, Planning and Development	#239/628	61st
Agricultural and Biological Sciences └ Agronomy and Crop Science	#122/320	61st
Agricultural and Biological Sciences └ Forestry	#55/138	60th

View CiteScore trends > Add CiteScore to your site

Biotechnology, Agronomy and Society and Environment

Country	Belgium - SIR Ranking of Belgium
Subject Area and Category	Agricultural and Biological Sciences Agronomy and Crop Science Forestry Plant Science Biochemistry, Genetics and Molecular Biology Biotechnology Social Sciences Geography, Planning and Development
Publisher	Universitaire des Sciences Agronomiques
Publication type	Journals
ISSN	13706233, 17804507
Coverage	2009-ongoing
Scope	BASE publishes original papers in the fields of life sciences: environmental science and technology, forest and natural space management, agronomical science, and chemistry and bio-industries.

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H Index

SJR = a free access tool to know the ranking and the visibility (citations!) of a scientific journal

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NT Roulet - Wetlands, 2000 - Springer Full Text @ ULg Library
Abstract The **Kyoto** Protocol accepts terrestrial sinks for **greenhouse** gases (GHGs) as offsets for fossil fuel emissions. Only carbon sequestered in living biomass from re-and afforestation is presently considered, but the Protocol contains a provision for the possible future ...
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GP Peters, EG Hertwich - Climatic Change, 2008 - Springer Full Text @ ULg Library
Abstract For the long-term stabilization of **greenhouse** gas (GHG) concentrations it is important that post-**Kyoto** policy has broad participation to ensure environmental integrity. Many post-**Kyoto** frameworks have been debated, but surprisingly approaches that focus ...
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What makes greenhouse sense? Time to rethink the Kyoto Protocol
TC Schelling - Foreign Affairs, 2002 - JSTOR
The **Kyoto** Protocol need not be a partisan issue. Climate change needs to be addressed, but the 1997 pact was never going to pass the Senate. By abandoning it, Bush at least avoided hypocrisy. It might take a century to reach a consensus on solving the ...
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[CITATION] **Inter-Linkages: The Kyoto Protocol and the international trade and investment regimes**
BW Chambers, WB Chambers - 2001 - United Nations University Press
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[HTML] **NF3, the greenhouse gas missing from Kyoto** [HTML] from wiley.com
MJ Prather, J Hsu - Geophysical Research Letters, 2008 - Wiley Online Library Full Text @ ULg Library
[1] Nitrogen trifluoride (NF3) can be called the missing **greenhouse** gas: It is a synthetic chemical produced in industrial quantities; it is not included in the **Kyoto** basket of **greenhouse** gases or in national reporting under the United Nations Framework ...
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[BOOK] **International Greenhouse Gas Emission Trading: With Special Reference to the Kyoto Protocol** [HTML] from google.be
P Bohm - 1999 - books.google.com

Biotechnologie, Agronomie, Société et Environnement

h5-index: 14 h5-median: 21

Title / Author	Cited by	Year
Beneficial effect of the rhizosphere microbial community for plant growth and health V Nihorimbere, M Ongena, M Smargiassi, P Thonart Biotechnologie, Agronomie, Société et Environnement 15 (2), 327-337	71	2011
The use of semiochemical slow-release devices in integrated pest management strategies S Hauskin, FJ Verheggen, E Haubruge, JP Wathelet, G Lognay Biotechnologie, Agronomie, Société et Environnement 15 (3), 459-470	37	2011
Different methods for spatial interpolation of rainfall data for operational hydrology and hydrological modeling at watershed scale: a review S Ly, C Charles, A Degré Biotechnologie, Agronomie, Société et Environnement= Biotechnology, Agronomy ...	27	2013
Cell wall polysaccharides hydrolysis of malting barley (Hordeum vulgare L.): a review C Jamar, P Jardin, ML Fauconnier Biotechnologie, Agronomie, Société et Environnement 15 (2), 301-313	27	2011
The effect of dietary selenium supplementation on meat quality of broiler chickens A Mezeliene, G Alencikiene, R Grusauskas, T Barstys Biotechnologie, Agronomie, Société et Environnement 15 (s1), 61-69	24	2011
Discrimination of Corsican honey by FT-Raman spectroscopy and chemometrics JAF Pierna, O Abbas, P Dardenne, V Baeten Biotechnologie, Agronomie, Société et Environnement 15 (1), 75-84	24	2011
Characteristics of African traditional beers brewed with sorghum malt: a review F Lyumugabe, J Gros, J Nzungize, E Bajyana, P Thonart Biotechnologie, Agronomie, Société et Environnement= Biotechnology, Agronomy ...	22	2012
Enjeux fonciers, exploitation des ressources naturelles et Forêts des Communautés Locales en périphérie de Kinshasa, RDC C Vermeulen, E Dubiez, P Proces, SD Mukumary, TY Yamba, ... Biotechnologie, Agronomie, Société et Environnement 16 (4), 638-644	21	2011
Lutte contre les ravageurs des stocks de céréales et de légumineuses au Sénégal et en Afrique occidentale: synthèse bibliographique MT Gueye, D Seck, JP Wathelet, G Lognay Biotechnologie, Agronomie, Société et Environnement 15 (1), 183-194	18	2011
Comparative study of the content and profiles of macronutrients in spelt and wheat, a review E Escarnot, JM Jacquemin, R Agneessens, M Paquot Biotechnologie, Agronomie, Société et Environnement	18	2012
Influence of particle-size on geochemical distribution of stream sediments in the Lese river catchment, southern Italy I GUAGLIARDI, C APOLLARO, F SCARCIGLIA, R DE ROSA Biotechnologie, agronomie, société et environnement 17 (1), 43-55	17	2013
PAMPs, MAMPs, DAMPs and others: an update on the diversity of plant immunity elicitors G Henry, P Thonart, M Ongena Biotechnologie, Agronomie, Société et Environnement	16	2012
Optimization of water potential and nutrient levels for Kentucky bluegrass-white clover mixture on acidic soils R Christis, LM McDonald, WB Bryan Biotechnologie, Agronomie, Société et Environnement 16 (2), 167-177	15	2012
Large carrion beetles (Coleoptera, Silphidae) in Western Europe: a review J Dekeirsschieter, F Verheggen, G Lognay, E Haubruge Biotechnologie, Agronomie, Société et Environnement= Biotechnology, Agronomy ...	15	2011

= most cited papers

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2.	Revue Française de Gestion	15	18
3.	Participations	14	34
4.	Biotechnologie, Agronomie, Société et Environnement	14	21
5.	Revue française de science politique	14	18
6.	L'Encéphale	13	17
7.	Revue de l'OFCE	13	17
8.	Réseaux	13	17
9.	VertigO-la revue électronique en sciences de l'environnement	13	17
10.	Actes de la Recherche en Sciences Sociales	13	16
11.	Canadian Journal of Learning and Technology/La revue canadienne de l'apprentissage et de la technologie	12	23
12.	Sociologie du Travail	12	19
13.	Cancer/Radiothérapie	12	17
14.	Revue d'Épidémiologie et de Santé Publique	12	17
15.	Management & Avenir	12	16
16.	Revue Française de Pédagogie	12	14
17.	Cybergeo: European Journal of Geography	11	18
18.	Revue des Maladies Respiratoires	11	17
19.	Cross-Cultural Communication	11	16
20.	Revue Tiers Monde	11	16
21.	La Revue de Médecine Interne	11	15
22.	Natures Sciences Sociétés	11	15
23.	Revue Française de Sociologie	11	15
24.	Economie et Statistique	11	14
25.	Politix	11	13
26.	Recherche et Applications en Marketing	11	13
27.	Transfusion Clinique et Biologique	10	19
28.	Revue française de psychanalyse	10	17
29.	Critique Internationale	10	16
30.	Décisions Marketing	10	15
31.	Le travail humain	10	15

= top 100 ranking

Public health: The toxic truth about sugar

Overview of attention for article published in Nature, February 2012

About this Attention Score

In the top 5% of all research outputs scored by Altmetric

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- **32** blogs
- **1** policy source
- **1563** tweeters
- **1** patent
- **51** Facebook pages
- **1** Wikipedia page
- **20** Google+ users
- **1** LinkedIn user
- **1** video uploader

Readers on

- **729** Mendeley
- **6** CiteULike

What is this page?

SUMMARY | News | Blogs | Policy documents | Twitter | Patents | Facebook | Wikipedia | Google+ | LinkedIn | Video

Title	Public health: The toxic truth about sugar
Published in	Nature, February 2012
DOI	10.1038/482027a
Pubmed ID	22297952
Authors	Robert H. Lustig, Laura A. Schmidt, Claire D. Brindis, Lustig RH, Schmidt LA, Brindis CD

View on publisher site

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Canada	65	4%
Australia	53	3%
Spain	38	2%
Brazil	34	2%
India	23	1%

Demographic breakdown

Type	Count	As %
Members of the public	1145	73%
Scientists	254	16%
Practitioners (doctors, other healthcare professionals)	115	7%
Science communicators (journalists, bloggers, editors)	49	3%

Author details

Portételle, Daniel

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Author ID: 7004801120

Affiliation(s):

Université de Liège, Liege, Belgium View more

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Subject area: Biochemistry, Genetics and Molecular Biology | Immunology and Microbiology | Agricultural and Biological Sciences | Medicine | Veterinary | Multidisciplinary | Chemical Engineering | Environmental Science | Social Sciences | Chemistry | Neuroscience | Pharmacology, Toxicology and Pharmaceutics

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Daniel PORTETELLE

Gembloux Agro-Bio Tech University of Liège
Verified email at ulg.ac.be

Microbiology Immunology Molecular and cellular Biology

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The complete genome sequence of the Gram-positive bacterium *Bacillus subtilis* F Kunst, N Ogasawara, I Moszer, AM Albertini, G Alloni, V Azevedo, ... Nature 390 (6657), 249	4114	1997
The composite genome of the legume symbiont Sinorhizobium meliloti F Galibert, TM Finan, SR Long, A Pühler, P Abola, F Ampe, ... Science 293 (5530), 668-672	1203	2001
Cloning and characterization of MN, a human tumor-associated protein with a domain homologous to carbonic anhydrase and a putative helix-loop-helix DNA binding segment. J Pastorek, S Pastoreková, I Callebaut, JP Momon, V Zelník, R Opavský, ... Oncogene 9 (10), 2877-2888	533	1994
Complete DNA sequence of yeast chromosome XI B Dujon, D Alexandraki, B André, W Ansorge, V Baladron, JPG Ballesta, ... Nature 369 (6479), 371	404	1994
Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021 D Capela, F Barloy-Hubler, J Gouzy, G Bothe, F Ampe, J Batut, P Boistard, ... Proceedings of the National Academy of Sciences 98 (17), 9877-9882	377	2001
One-step purification of mouse monoclonal antibodies from ascitic fluid by DEAE Affi-Gel blue chromatography C Bruck, D Portetelle, C Glineur, A Bollen Journal of immunological methods 53 (3), 313-319	320	1982
Bovine leukaemia: facts and hypotheses derived from the study of an infectious cancer	294	1988

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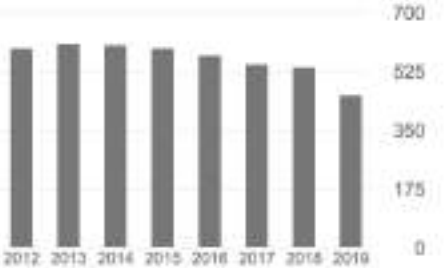

Co-authors

Guy Mergeai
Professeur d'Agronomie tropical...

Xavier Draye
Professeur en génétique et écop...

60	Use of monoclonal antibody in an ELISA test for the detection of antibodies to bovine leukaemia virus D Portetelle, C Bruck, M Mammerickx, A Burny Journal of virological methods 6 (1), 19-29	72	1983
61	Recombinant vaccinia virus expression of the bovine leukaemia virus envelope gene and protection of immunized sheep against infection D Portetelle, K Limbach, A Burny, M Mammerickx, P Desmettre, M Riviere, ... Vaccine 9 (3), 194-200	71	1991
62	The Arabidopsis thaliana PIN1At gene encodes a single-domain phosphorylation-dependent peptidyl prolyl cis/trans isomerase I Landrieu, L De Veylder, JS Fruchart, B Odaert, P Cassteels, D Portetelle, ... Journal of Biological Chemistry 275 (14), 10577-10581	70	2000
63	Monoclonal antibody production U Marx, MJ Embleton, R Fischer, FP Gruber, U Hansson, J Heuer, ... ATLA-NOTTINGHAM- 25, 121-138	69	1997
64	Even transcriptionally competent proviruses are silent in bovine leukemia virus-induced sheep tumor cells A Van Den Broeke, Y Cleuter, G Chen, D Portetelle, M Mammerickx, ... Proceedings of the National Academy of Sciences 85 (23), 9263-9267	67	1988
65	Discrimination of Corsican honey by FT-Raman spectroscopy and chemometrics JAF Pierna, O Abbas, P Dardenne, V Baeten Base	65 *	2011
66	Relationships of growth hormone gene and milk protein polymorphisms to milk production traits in Simmental cattle M FALAKI, A PRANDI, C CORRADINI, M SNEYERS, N Gengler, ... Journal of Dairy Research 64 (1), 47-56	65	1997
67	Experimental transmission of enzootic bovine leukosis to cattle, sheep and goats: infectious doses of blood and incubation period of the disease M Mammerickx, D Portetelle, K de Clercq, A Burny Leukemia research 11 (4), 353-358	64	1987
...	Increased cell proliferation, but not reduced cell death, induces lymphocytosis in bovine leukemia virus-infected sheep C Debacq, B Asquith, P Kerkhofs, D Portetelle, A Burny, R Kettmann, ... Proceedings of the National Academy of Sciences 99 (15), 10048-10053	63	2002
	The nucleotide sequence of Saccharomyces cerevisiae chromosome XV. B Dujon, K Albermann, M Aldea, D Alexandraki, W Ansorge, J Arino, ...	62	1997

H index ?

In summary

For a journal We use:

- ➔ Impact Factor
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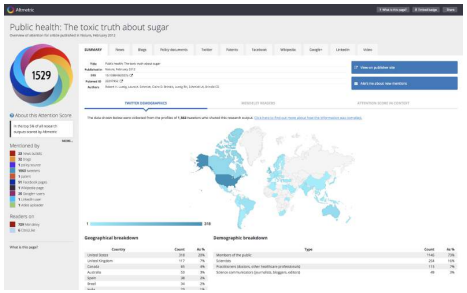

For a researcher We use:

- ➔ Google Scholar Personal page
- ➔ Scopus Personal page
- ➔ the H index (originally computed to select physics teachers)
- ➔ **Never Impact Factor!**

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- Processes
- Documents
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- Publication and diffusion
- Bibliographic tools (to find the documents)

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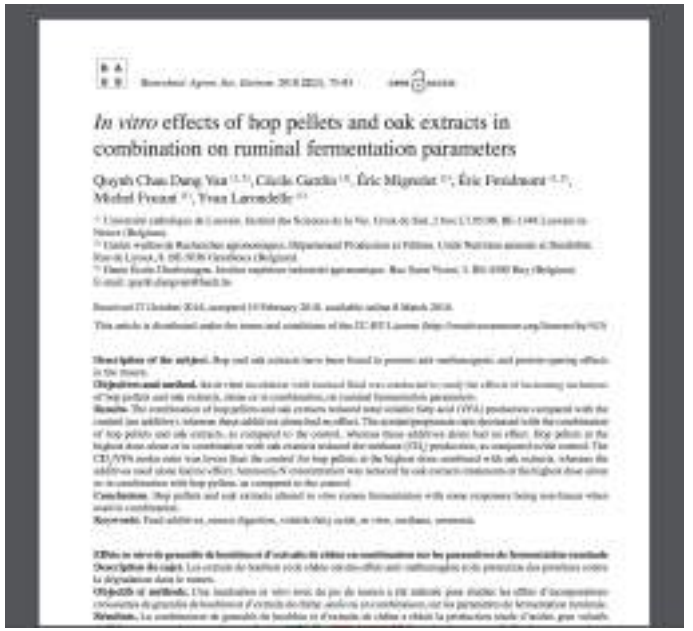

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- there is also **grey literature** (reports, research notes, theses…) which is:
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  - ➔ also an important source of information
  - ➔ **Sometimes hard to find...**

Publisher	Nbr	Percentage	cumulative percentage
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Taylor & Francis	5087	11 %	33,18 %
Wiley-Blackwell	3218	7 %	39,91 %
SAGE	1666	3 %	43,39 %
Cambridge University Press	740	2 %	44,94 %
Walter de Gruyter	737	2 %	46,48 %
Wolters Kluwer Health	699	1 %	47,94 %
Emerald	687	1 %	49,38 %
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Top 10 science publishers (source: Scopus-Elsevier). Percentages calculated on a total of 47820 journals indexed in Scopus as of 28/05/2018.

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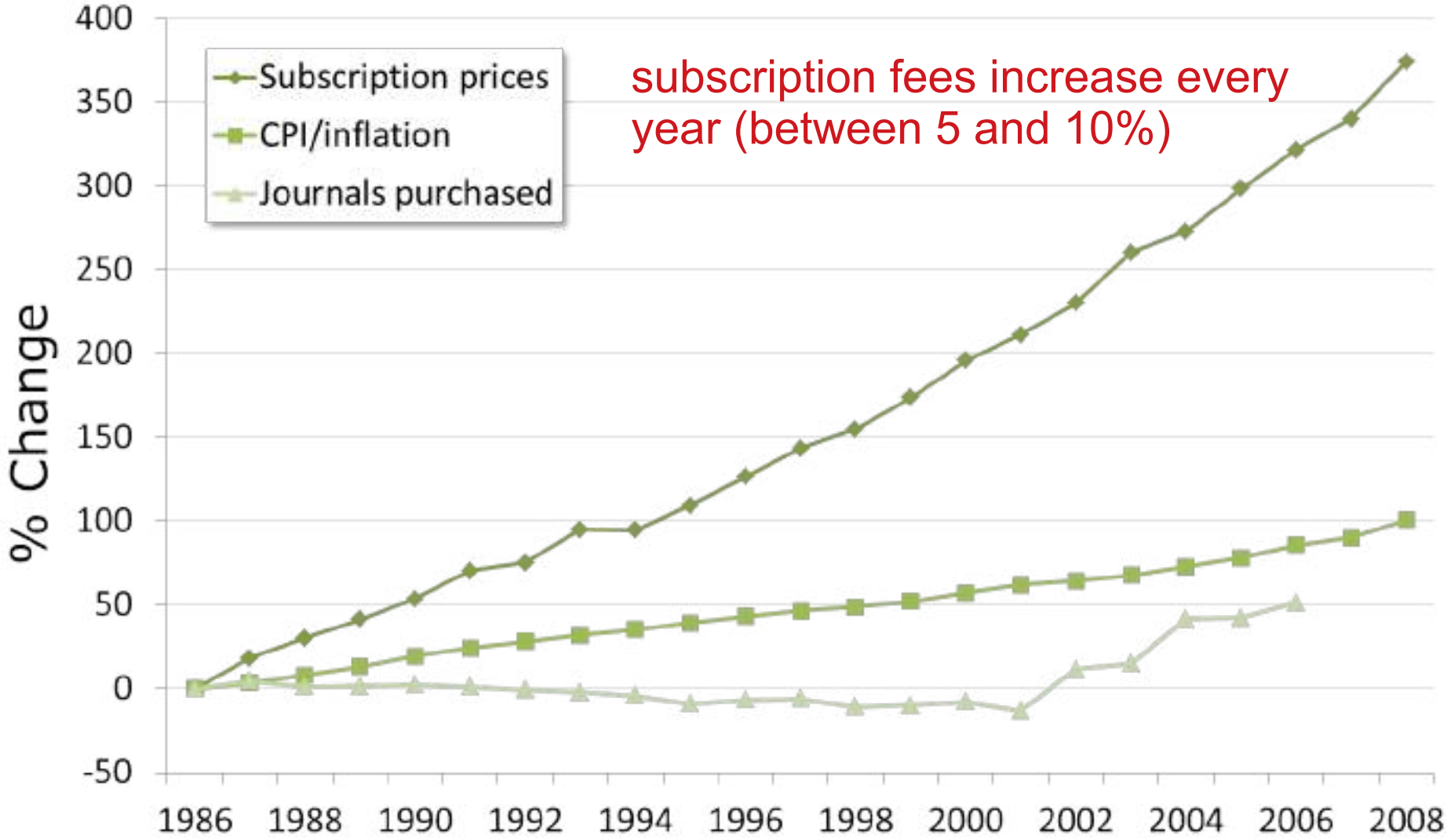
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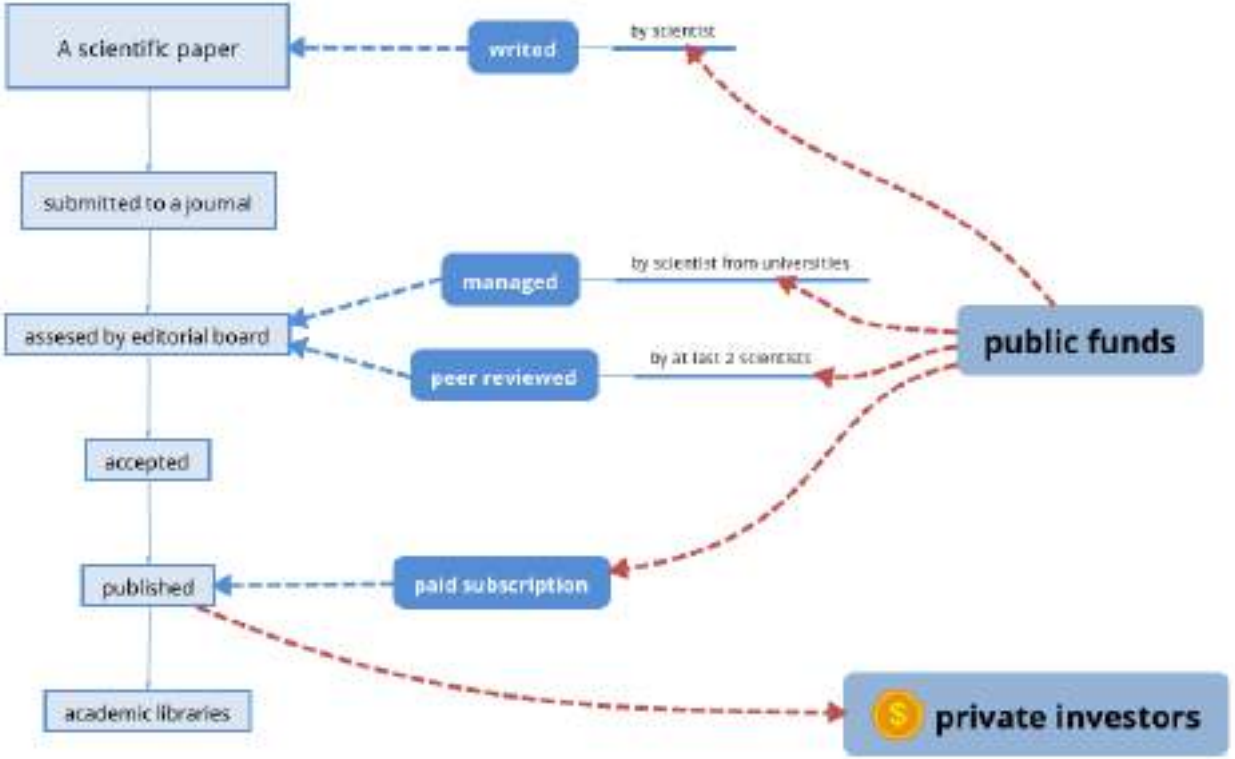

private companies that own these journals are mainly financed by public funds

- Why continue to buy items we write ourselves???
- Why continue to outsource the sharing of our knowledge to commercial third parties???

Why continue to buy items we write ourselves???

One solution, the Open Access (1990) & two ways

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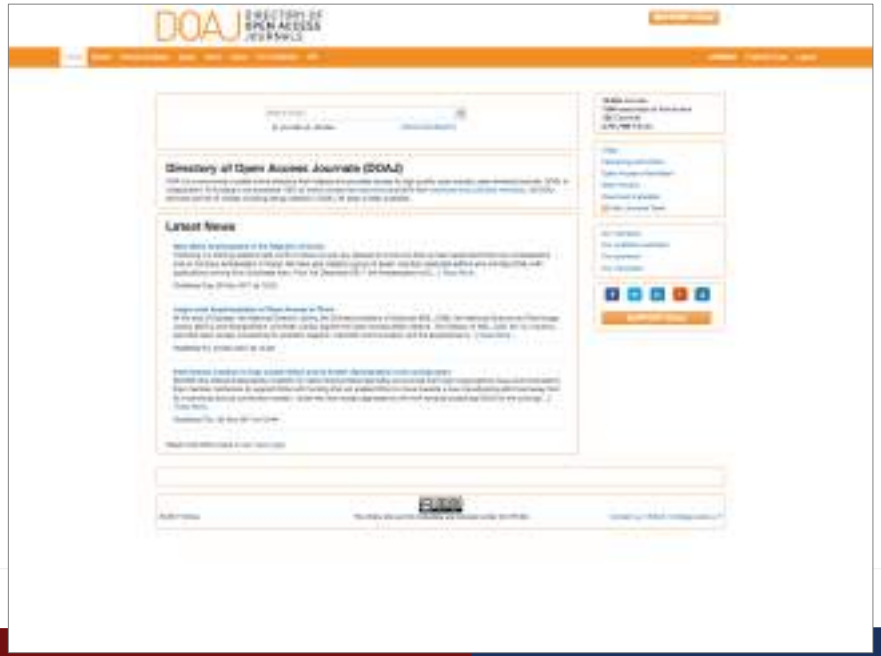

the green way

what's the difference between the gold way and the green way?

the gold way

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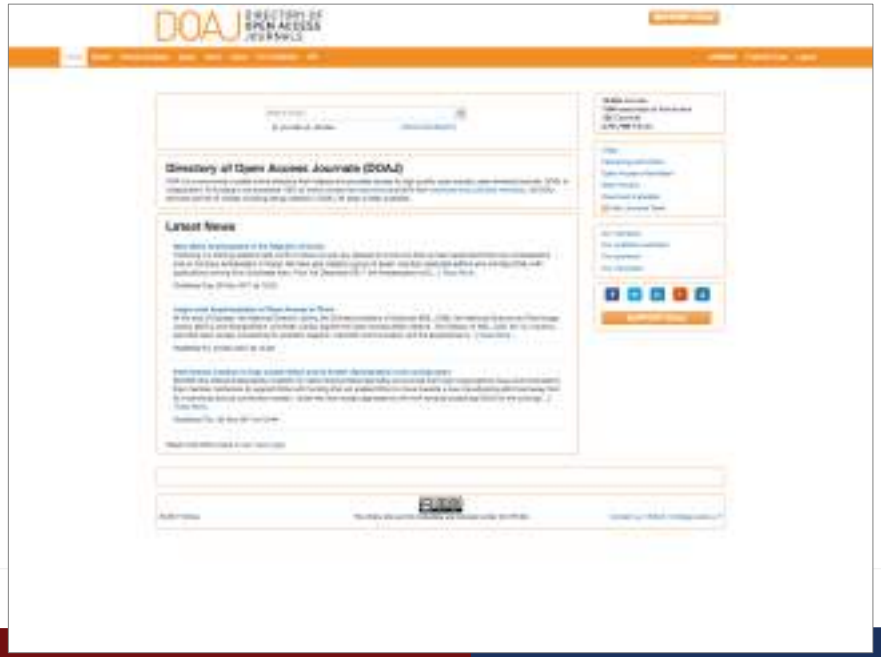

the green way

- Deposit (by author) in an open repository (with the permission of the publisher)


We'll discuss Open Access in the next module
Yes, WE ARE OPEN
Open Access is part of Open Science

Scientific communication is:

- ✔ Processes
- ✔ Documents
- ✔ Bibliometry and quality evaluation
- ✔ Publication and diffusion
- ✔ Bibliographic tools (to find the documents)

For information retrieval (extended literature search), We have:

Discovery tools

- ➔ Primo for de ULiège Library

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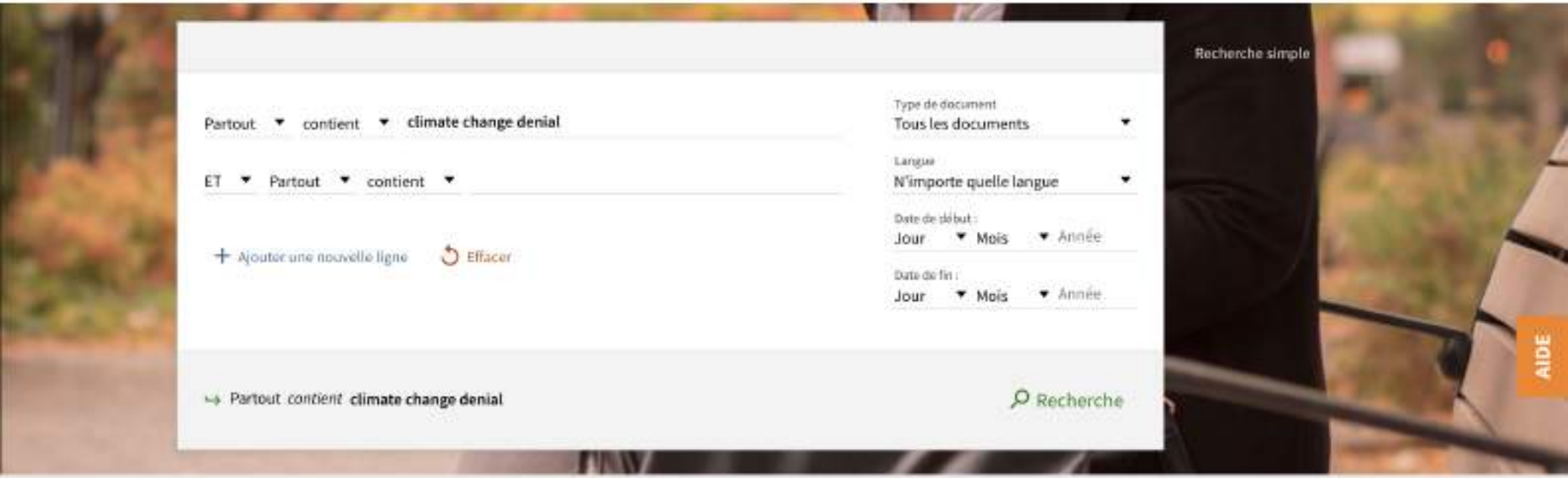

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Ideology and climate change denial

Häkkinen, Kirsti ; Akrami, Nazar

Personality and Individual Differences, November 2014, Vol.70, pp.62-65

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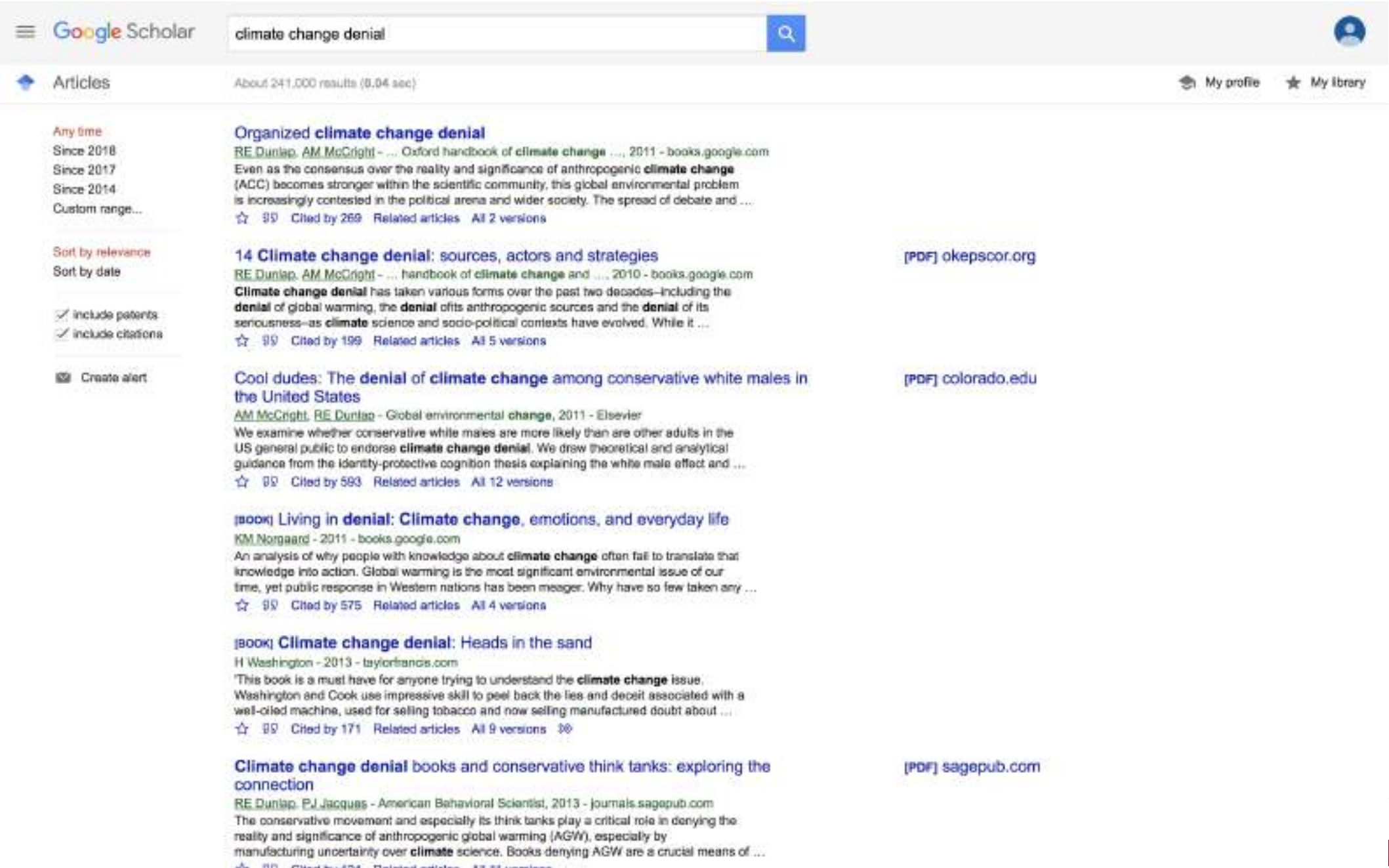
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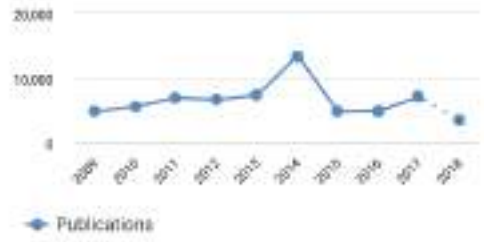

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- Riley E. Dunlap
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2011, Sociological Quarterly, volume 52, issue 2, pp 155-194

Aaron M. McCright (Michigan State University), Riley E. Dunlap (Oklahoma State University–Stillwater)

We examine political polarization over climate change within the American public by analyzing data from 10 nationally representative Gallup Polls between 2001 and 2010. We

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Expert credibility in climate change.

2010, Proceedings of the National Academy of Sciences of the United States of America, volume 107, issue 27, pp 12107-12109

William R. L. Anderegg (Stanford University), James W. Prall, Jacob Harold, Stephen H. Schneider (Stanford University)

Although preliminary estimates from published literature and expert surveys suggest striking agreement among climate scientists on the tenets of anthropogenic climate change

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2011, Global Environmental Change-human and Policy Dimensions, volume 21, issue 4, pp 1163-1172

Aaron M. McCright (Michigan State University), Riley E. Dunlap (Oklahoma State University–Stillwater)

A B S T R A C T We examine whether conservative white males are more likely than are other adults in the U.S. general public to endorse climate change denial. We draw

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The Skeptical Inquirer. VOL 37; NUMB 3, ; 2013, 40 -- SCIENTIFIC INVESTIGATION OF CLAIMS OF THE Part 3; -- 2013

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3	Cool dudes: The denial of climate change among conservative white males in the United States View abstract View at Publisher Related documents	McCright, A.M., Dunlap, R.E.	2011	Global Environmental Change 21(4), pp. 1163-1172	291
4	Scepticism and uncertainty about climate change: Dimensions, determinants and change over time View abstract View at Publisher Related documents	Whitmarsh, L.	2011	Global Environmental Change 21(2), pp. 690-700	255
5	Living in denial: Climate change, emotions, and everyday life [Book] View abstract Related documents	Norgaard, K.M.	2011	*Living in Denial: Climate Change, Emotions, and Everyday Life* pp. 1-279	255

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l'information scientifique maîtrisée

Cours | Libres parcours | Ressources | À propos de

Where to find the links to these bibliographic databases?
On my blog, there is one page (in french, sorry) called: Toolbox
→ http://infolit.be/bao

(Toolbox)

Tout pour l'étudiant et le chercheur ! :

Sélection (très personnelle) de quelques outils indispensables, gratuits et (presque tous) libres :

Outils TIC	Recherche documentaire	Aides à la rédaction

(ICT tools – Information retrieval – writing aids)

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Recherche Documentaire

(free information retrieval tools)

Outils (gratuits) pour la recherche documentaire (cités dans le manuel). Avant d'entamer votre recherche consultez le chapitre 8 du manuel. Voir aussi La recherche documentaire dans le web scientifique libre (Projet Soha).

- **Thésaurus (pour identifier les bons termes – *to identify the right terms*)**
- **Moteurs de recherche scientifiques *(scientific search engines)***
- **Bases de données bibliographiques spécialisées *(bibliographic specialized databases)***
- **Portail de thèses *(PhD thesis portals)***
- **Accéder aux documents *(how to access documents)***
- **Quelques sources incontournables en sciences humaines et sociales**

- Thésaurus de l'Unesco (tous domaines)
- The Free Thesaurus (tous domaines, un des services TFD avec présentation en réseau)

Moteurs de recherche scientifiques

À compléter (ou commencer) par l'outil discovery de votre institution (par exemple : Collections ULiège)

- Bielefeld Academic Search engine (Universitätsbibliothek Bielefeld)
- Google Scholar (.. Google, voir présentation par Julien Sicot – Université Rennes 2)
- Dimensions (Digital Science)
- Microsoft Academic Search
- Finds (in 2018, Iscience was acquired by Elsevier)
- WorldWideScience (U.S. Department of Energy's Office of Scientific and Technical Information)
- ScienceResearch.com (Deep Web Technologies)
- Sci-napse (Plutot Network)
- CORE (Aggregating the world's open access research papers)
- Ingenta Connect
- HathiTrust's digital library ..
- JournalTOCs (tables des matières de près de 30.000 périodiques scientifiques)
- African Journals online (500 périodiques scientifiques africains dont 200 en libre accès)
- SciELO (portail sud américain de publications en libre accès)
- WorldCat (Outil *discovery* de l'OCLC)
- pour les pays du Sud éligibles, Research4Life (avec quatre portails spécifiques : Hinari, AGORA, OARE and ARDI)
- voir aussi : où trouver de l'information en *Open Access* ?

Bases de données bibliographiques spécialisées (... pour aller plus loin)

- Agricola (NAL-USDA : agronomie)
- Agris (FAO : agronomie, alimentation, environnement)
- Pubmed (NLM : médecine et biotechnologies)
- voir aussi :

Rechercher...

Recherche avancée

Horaires | Salles de travail | Bases de données | Guides | Demande PIB | Formations en ligne | Guides

News & Agendas

NEWS

Fermeture de l'implantation Léon Graulich du 6 au 9 novembre

Des travaux de réaménagement se déroulent dans l'implantation Léon Graulich jusque fin

NEWS

Vous allez adorer explorer nos collections de périodiques !

Testez BrowZine et parcourez agréablement nos collections de périodiques électroniques scientifiques sur votre ordinateur, tablette ou smartphone !

NEWS

Accédez en un clic aux documents scientifiques avec LibKey Nomad !

LibKey connecte nos collections électroniques avec PubMed, Wikipedia, et des dizaines de sites

AIDE

https://explore.lib.uliege.be/discovery/search?vid=32ULG_INST:ULIEGE&lang=fr

Recherche

Saisissez un nom de base de données

10 bases de données trouvées pour ***Agronomie et biotechnologie***

Disciplines

- Agronomie et biotechnologie
- Architecture et urbanisme
- Arts du spectacle et musique
- Biologie et environnement
- Chimie
- Droit et criminologie
- Economie et gestion
- Géographie et sciences de la terre
- Histoire
- Histoire de l'art et archéologie
- Ingénierie, informatique et technologie
- Langues et littératures
- Mathématiques
- Médecine
- Médecine vétérinaire
- Philosophie et religion

1

Academic Search Premier : ASP

EBSCO Publishing (Firm)

This multi-disciplinary database provides full text for more than 4,600 journals, including full text for nearly 3,900 peer-reviewed titles. PDF backfiles to 1975 or further are available for well over one hundred journals, and searchable cited references are provided for more than 1,000 titles.

Disponible en ligne

2

AGRICOLA

National Agricultural Library (U.S.)

This bibliographic database, produced by the National Agricultural Library, consists of worldwide literature citations for journal articles, monographs, proceedings, theses, patents, translations, audiovisual materials, computer software, and technical reports pertaining to all aspects of agriculture and related fields. Since 1985, the CAB Thesaurus has been used to select controlled vocabulary terms for subject indexing. Library of Congress Subject Headings are used as controlled vocabulary for cataloging records.

Disponible en ligne

3

Agricultural & Environmental Science Database

ProQuest (Firm)

This database includes the renowned AGRICOLA, TOXLINE, ESPM (Environmental Sciences and Pollution Management) and Environmental Impact Statements (EIS) databases and provides full-text titles from around the world, including scholarly journals, trade and industry journals, magazines, technical reports, conference proceedings, and government publications. This database includes specialized, editorially-curated A&I resources covering such topics as the effects of pollution on people and animals and environmental action and policy responses.

Disponible en ligne

4

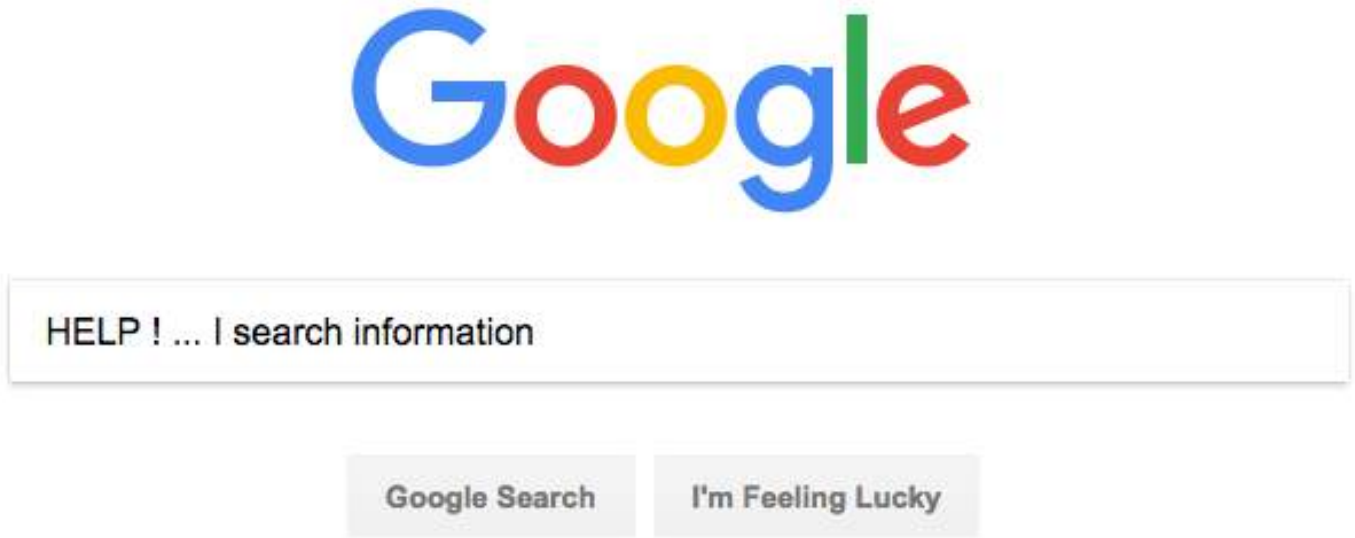
AGRIS

Food and Agriculture Organization of the United Nations.

La base de données AGRIS contient plus de 7 millions de références bibliographiques portant sur les recherches et

AIDE

What is the best way to use the bibliographic tools?



We'll see the best way in a next module!