PeriscOApe:
Developing a tool to monitor Open Access dynamics at the institutional level

OS DAY, 7/11/2024, Christophe Dony

What is PeriscOApe?

- Monitoring tool of the OA dynamics of an institution (FWB).

- Data collection based open data sources

- Scope of proof of concept:
  - Research articles published between 2018-2020 for which at least one (co-)author is affiliated with
    - Uliège
    - CHU de Liège
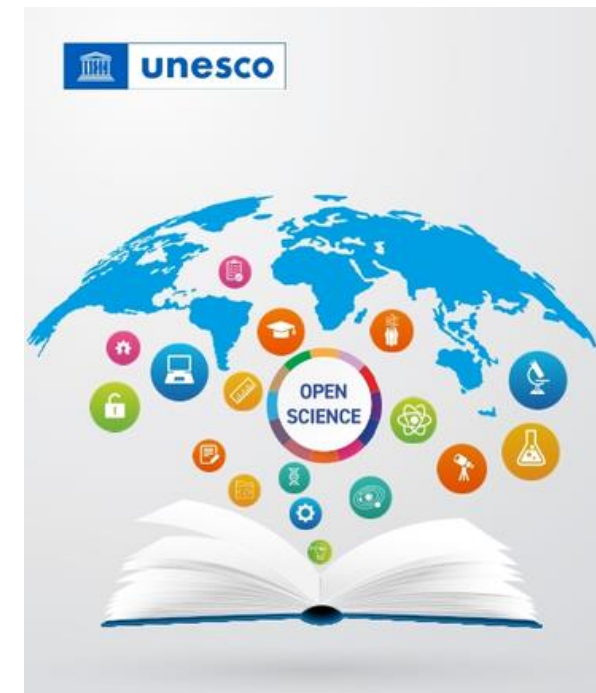   - Gembloux Agro-Bio-Tech

2

Why monitor OA dynamics?

Why monitor OA dynamics?

- Evaluate the compliance level of the FWB OA decree (i.e. green copy in an IR) and the costs associated with some types of OA

- Offer data analytics to raise awareness about the evolution of:
    - the types of OA and their possible costs and models
    - publishing (concentration) trends
    - Trends accors disciplines/subjects
    - …

- Align with international initiatives and educate/advise various stakeholders:
    - researchers, funding bodies, policy-makers

Open Science Monitoring Initiative

≡ Menu

Official release of the Open Science Monitoring Initiative website and starting point of a worldwide consultation

unesco

OPEN SCIENCE

UNESCO Recommendation on Open Science

4

Why OA dynamics?

Why OA 'dynamics'?

▶ Open vs. closed does not cut it anymore
  • Diversity of OA types

- **Gold**: Published in an open-access journal that is indexed by the DOAJ.

- **Green**: Toll-access on the publisher page, but there is a free copy in an OA repository.

- **Hybrid**: Free under an open license in a toll-access journal.

- **Bronze**: Free to read on the publisher page, but without an clearly identifiable license.

- **Closed**: All other articles, including those shared only on an ASN or in Sci-Hub.

Piwowar, Heather, Jason Priem, Vincent Larivière, Juan Pablo Alperin, Lisa Matthias, Bree Norlander, Ashley Farley, Jevin West, et Stefanie Haustein. « The State of OA: A Large-Scale Analysis of the Prevalence and Impact of Open Access Articles ». *PeerJ* 6 (13 février 2018): e4375. https://doi.org/10.7717/peerj.4375.

▶ Exclusive categories
  • Overshadowing of 'Green OA' (ie. OA delivered through repositories such as ORBi)

New terminology and more filters to get a fuller and more nuanced picture

Types of access by year of publications ⌄

Access types by publisher
Amount of APCs by journal model per year
Amount of APCs by journal model by publisher
Average number of citations per article and per type of access
Types of access by year of publications
Journal model by publisher

Evolution of access types

OA in an open archive   OA on publisher's website
OA on publisher's website and in an open archive   closed access
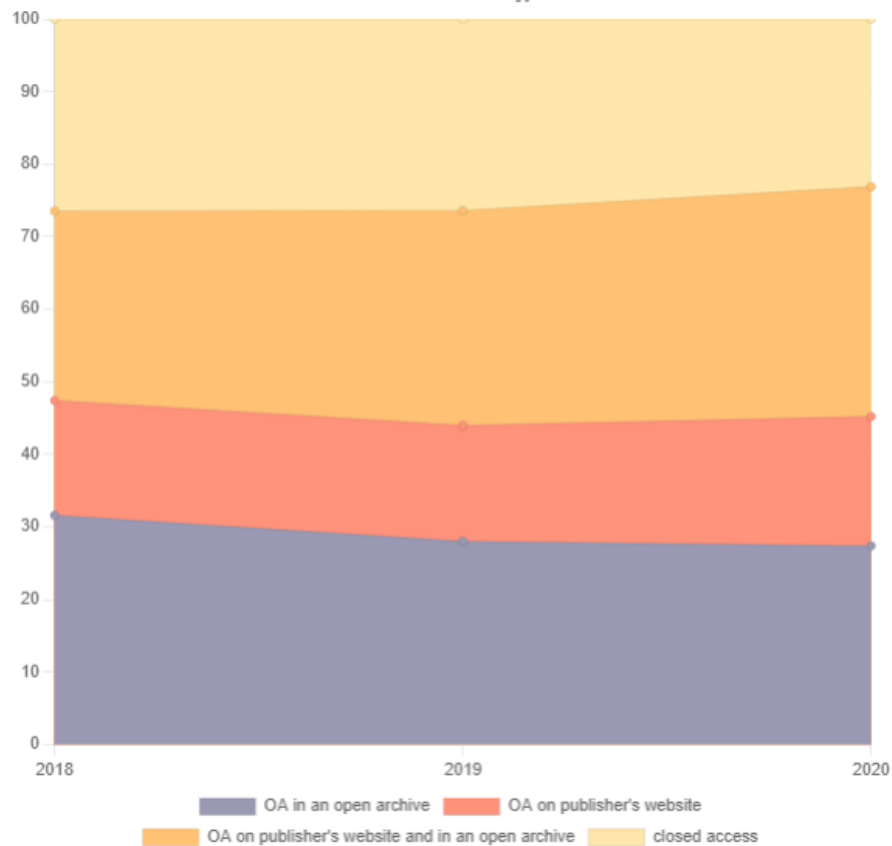
Amount of APCs by journal model per year ⌄

Life sciences ⌄   All years ⌄

Amount of APCs by journal model per year for every year and for Life sciences

OA_APC   hybrid

Periscoöpe   Monitoring graphs

Journal model by publisher

All Disciplines   All years

Journal model by publisher for every year and for all Disciplines

Elsevier - 2293
Springer Nature - 1272
Wiley - 938
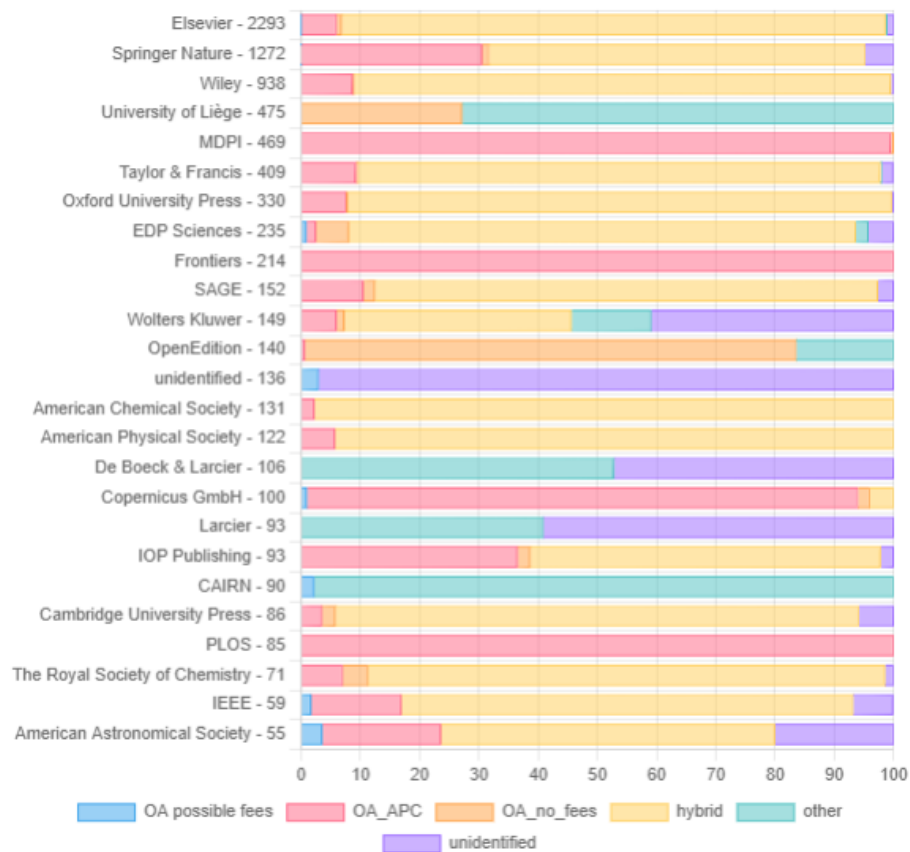University of Liège - 475
MDPI - 469
Taylor & Francis - 409
Oxford University Press - 330
EDP Sciences - 235
Frontiers - 214
SAGE - 152
Wolters Kluwer - 149
OpenEdition - 140
unidentified - 136
American Chemical Society - 131
American Physical Society - 122
De Boeck & Larcier - 106
Copernicus GmbH - 100
Larcier - 93
IOP Publishing - 93
CAIRN - 90
Cambridge University Press - 86
PLOS - 85
The Royal Society of Chemistry - 71
IEEE - 59
American Astronomical Society - 55

0 10 20 30 40 50 60 70 80 90 100

■ OA possible fees ■ OA_APC ■ OA_no_fees ■ hybrid ■ other
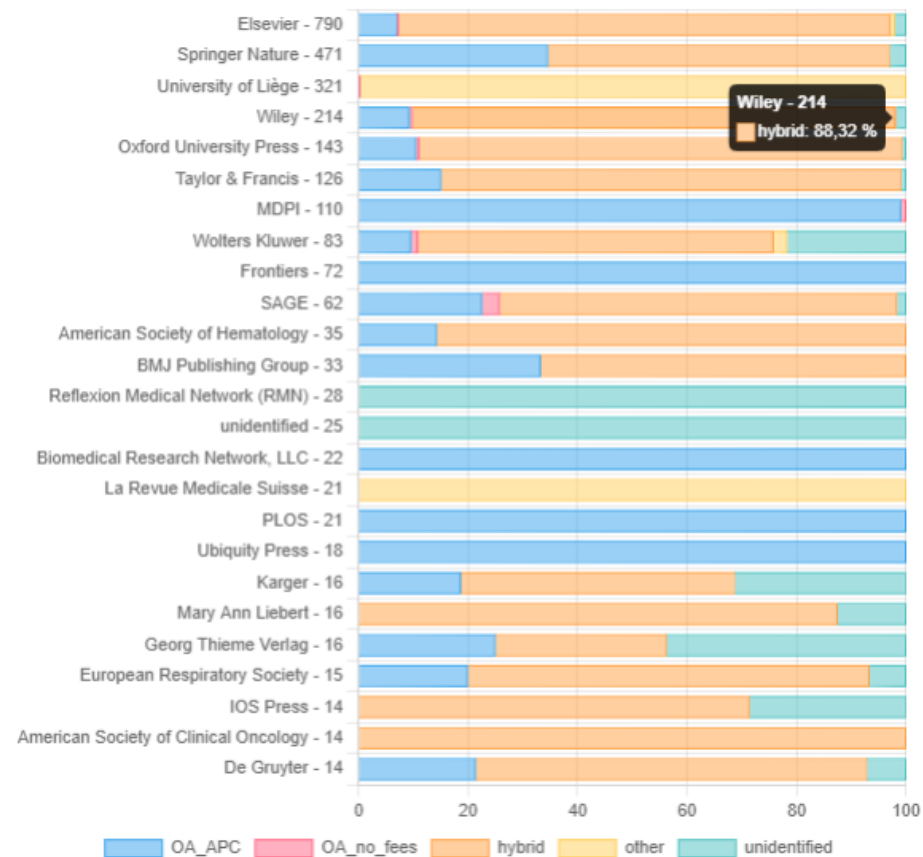■ unidentified

Periscoöpe   Monitoring graphs

Journal model by publisher

Human health sciences   All years

Journal model by publisher for every year and for Human health sciences

Elsevier - 790
Springer Nature - 471
University of Liège - 321
Wiley - 214
Oxford University Press - 143
Taylor & Francis - 126
MDPI - 110
Wolters Kluwer - 83
Frontiers - 72
SAGE - 62
American Society of Hematology - 35
BMJ Publishing Group - 33
Reflexion Medical Network (RMN) - 28
unidentified - 25
Biomedical Research Network, LLC - 22
La Revue Medicale Suisse - 21
PLOS - 21
Ubiquity Press - 18
Karger - 16
Mary Ann Liebert - 16
Georg Thieme Verlag - 16
European Respiratory Society - 15
IOS Press - 14
American Society of Clinical Oncology - 14
De Gruyter - 14

Wiley - 214
■ hybrid: 88,32 %

0 20 40 60 80 100

■ OA_APC ■ OA_no_fees ■ hybrid ■ other ■ unidentified

See the full report

Dony, Christophe. (2023). "PeriscOApe : Enjeux et méthodologie pour la réalisation d'un jeu de données de monitoring de l'Open Access (Rapport Technique)." https://orbi.uliege.be/handle/2268/309720

Get the data

Dony, Christophe. 2023. "PeriscOApe ULiège 2018-2020 Data1." ULiège Open Data Repository. https://doi.org/10.58119/ULG/AJAGVP.