Introduction to The Lens

An open facility for discovery, analysis, metrics and mapping of scholarly literature and patents

May 2021
The Lens and Cambia

- Cambia, founded in 1991, started Patent Lens in 2001, the precursor of lens.org, the world’s first free and open full text patent search capability.
- In 2006, launched the world’s first public patent sequence search capability for United States patent applications.
- Since 2013, Lens.org has served the world most comprehensive public Patent Sequence platform to navigate biological patents from over 17 jurisdictions.
- In 2011, with seed money from USPTO, Cambia began extracting and resolving non-patent literature strings in collaboration with NIH-NCBI and Crossref.
- By 2014, Cambia linked non-patent literature to patents and began serving the data, created PatCite and In4M metric to map influence of research on industry and foster meaningful partnerships.
- Lens ensure privacy and confidentiality and its data is fully open, shareable and reusable.
- The platform has been up 24/7 for over 20 years.
227.7M scholarly works records:

- 115.5M journal articles
- 21.4M Books and book chapters
- 7.3M conference proceedings
- 4.3M works cited in patents
- 76.8M works cited by other scholarly works
- 1.7B scholarly citations
FEBRUARY 2021

Lens Patent Data

128.7 Million Patent Records:

- 105 jurisdictions
- 70.9M patent families
- 741k biological patents
- 371.1M patent sequences
Our **Special Sauce**

Linkages between data silos

128M Patent Records
71M Patent Families
16M Applicants
1.6M Owners
228M Scholarly Works
33M Authors
19k Research Organizations
4.4M Works cited in patents
1.6B Scholarly citations
371M Bio Sequences
2.4B Document Linkages
THE LENS

Meta Record Strategy

**Lens use a “Meta Record” concept** as a core element of our facility. We use a 15 digit open and persistent identifier, LensID, to expose credible variants, sources and context of knowledge artifacts, such as scholarly works or patents, while maintaining provenance, and allowing aggregation, normalization, and quality-control of diverse metadata.

https://osf.io/preprints/lissa/t56yh/

Figure 2. The Lens Scholarly Meta-Record (SMR) modeller.
CURRENT OFFERINGS

Discovery, Analytics, And Management Tools

**API & Data Facility:**
Scholarly API, PatSeq bulk data, Patent API

**Collections:**
based on Scholarly Works and Patents Lens searches and analyses.

**Reports:**
Assemble your saved queries and collections with other knowledge in a dynamic and interactive report*

**In4M:**
International Industry & Innovation Influence Mapping

* coming soon

LENS.ORG
Solving The Problem Of Problem Solving™

- **Patents**
  - Search and Analysis
- **Scholarly Works**
  - Search and Analysis
- **PatSeq**
  - Biological Toolset
- **PatCite**
  - Citation Analysis
- **In4M**
  - Measuring Influence
Unique to open data, Lens Profiles are auto-generated author and inventor profiles based on public ORCID records.

Compiled from publicly available data sources using the ORCID iD as the linking identifier.

Lens Profiles can be used to update your ORCID record with scholarly works or patents from the Lens in just a few steps.

EiFL ORCID seminar: https://www.eifl.net/resources/eifl-webinar-how-train-students-and-researchers-topic-researcher-identifiers-and-orcid
INSTITUTIONAL PROFILES

Profiles for Institutions: Showcasing Capabilities

*Precision Partnering*: a unique feature of open data from The Lens.

Showcase the capabilities of your organization on a FAIR, dynamic, open and transparent platform.
International Industry & Innovation Influence Mapping

An open, transparent and granular tool to explore, expose and showcase the degree to which research works, scholars’ work product, or whole institution’s capabilities influence outcomes for society, in myriad forms.
To learn more, watch Richard Jefferson, founder of The Lens, at the Skoll World Forum for Social Entrepreneurship:
https://www.youtube.com/watch?v=of8ai1HhqK4

Check out support for tips for using Lens.org: https://support.lens.org/
Musings about Librarianship: Open Access analysis

[OA week 2020] - Creating a free and beautiful auto-updating dashboard for tracking Open Access rates for your institution using Lens.org

So it is Open Access Week 2020, while I write quite a bit on Open Access and Open Data, I don't often post specifically for Open Access Week.

One exception was 2017’s My reflection on my journey in open access or Can you be a librarian without being an open access advocate? where I shared my fears about how the rise of open access might slowly reduce part of the importance or value of academic librarianship (the part that focuses on providing access to resources behind paywalls what Lorcan Dempsey’s calls outside-In) and the difficulties of adjusting to a post OA world and wondering if I should feel guilty about that.

I concluded by saying that

In any case, my thinking currently is open access is inevitable now, so arguing whether you are an advocate or not is pointless. As a librarian we need to prepare now for it's coming and influence it in a way that leads to the maximum benefits for our users and maybe even with a little bit of consideration for ourselves.

It's 2020, and my views haven't changed that much, though I have become more and more aware of the innovation that can be unleashed the more open data (metadata and full text) is available particularly in the research tools space.
Company Analysis: Sasol, South Africa

Patent Portfolio: https://www.lens.org/lens/dashboard/3486

Scholarly research Output: https://www.lens.org/lens/dashboard/3491