

Open Scientometrics assists in tackling global societal challenges

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Introduction

- In combination with subscription databases, we can **expand** our reach to include **additional research publications**.
- Scientometrics analyses are missing **other voices in research** i.e. Global South.
- **Inclusion, diversity, transparency, reproducibility, and variety** are the principles we should follow.
- **Global risks** are happening over the next two years.
- Open scientometrics is threatened by **predatory and questionable publishing**.

Research questions

- In bibliometrics analyses, what is **missing**?
- What types of research can be found in **open databases**?
- What is the **open citation rate** for these other publications?
- Are there any quality control instruments we could use to support **research integrity**?

Context

- Start with **why** Open Scientometrics matters.
- Open Scientometrics can help in addressing the **global biggest risks** we face in 2024 and beyond:

1st	Misinformation and Disinformation
2nd	Extreme weather events
3rd	Societal polarisation
4th	Cyber insecurity
5th	Interstate armed conflict

Table 1. Top 5 Global Risks in the next 2 years

Research Design and Method

- Data from **Scopus and OpenAlex (2004-2023)**
- **Global Risk Report 2024-** World Economic Forum
- Articles about **Misinformation and Disinformation**
- **Visualisation with VOSviewer**.

Results

Articles about Misinformation and Disinformation				
	Publications	Citations	Average citations	Open Access
Scopus	9755	172829	17.716	58%
OpenAlex	27659	321456	11.622	49%
Scopus + OpenAlex	29612			

Table 2. Indicators applied to Misinformation and Disinformation publications.

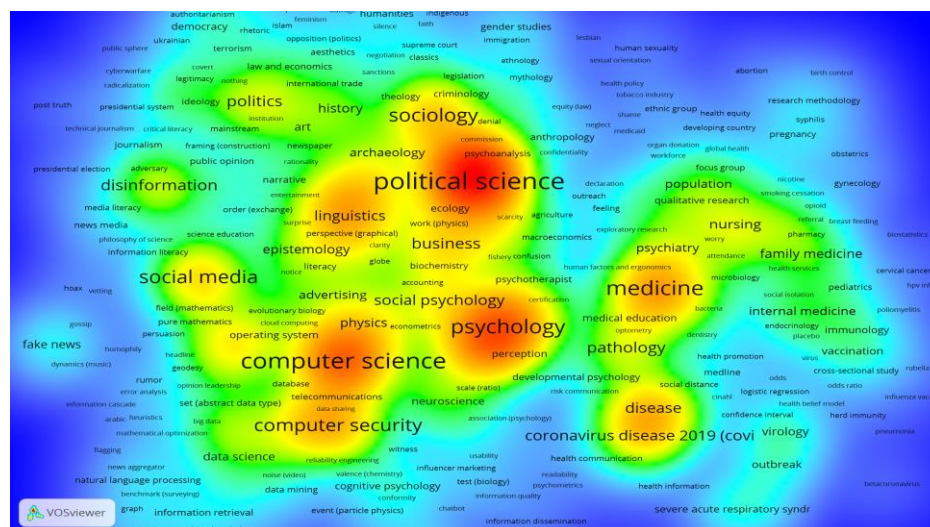


Figure 1. Co-occurrence concepts on Misinformation and Disinformation in OpenAlex.

Conclusions

- As expected, more publications can be found in open databases about a specific topic, however, publications in subscribed databases received higher citations.
- To establish a comprehensive picture of the research landscape and effectively tackle global challenges, conducting bibliometric analyses with multiple databases should be the norm.

References

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