

Open Knowledge Maps

A free and open search engine to create visual overviews of research topics

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Coffee & Bit(e)s spring 2021



OPEN KNOWLEDGE MAPS

A visual interface to the world's scientific knowledge



Any time

Since 2021

Since 2020

Since 2017

Custom range...

Sort by relevance

Sort by date

- include patents
- include citations

Create alert

[HTML] [Assessing desertification](#)

[SR Veron](#), [JM Paruelo](#), [M Oesterheld](#) - *Journal of Arid Environments*, 2006 - Elsevier

It is widely recognized that **desertification** is a serious threat to arid and semiarid environments—which cover 40% of the global land surface and are populated by approximately 1 billion humans. Given the potential relevance of this problem, it is surprising ...

☆ 99 Cited by 386 Related articles All 18 versions Web of Science: 194

[HTML] [sciencedirect.com](#)

[Uni Bern Fulltext](#)

Desertification: a general review

[M Kassas](#) - *Journal of arid environments*, 1995 - Elsevier

This review paper provides explanation and global assessment of **desertification** as it menaces the world drylands. It shows the differences between drought (a natural hazard) and **desertification** (degradation of land resources), and quotes an example of management ...

☆ 99 Cited by 266 Related articles All 7 versions Web of Science: 119

[PDF] [teiion.gr](#)

[Uni Bern Fulltext](#)

Desertification: time for an assessment?

[U Hellmén](#) - *Ambio*, 1991 - JSTOR

United Nations Environmental Programme (UNEP) considers **desertification** to be one of the major environmental problems of our time. According to UNEP, 35% of the world's land surface is currently at risk and more than 20 million hectares are reduced annually to near or ...

☆ 99 Cited by 418 Related articles All 6 versions Web of Science: 165

[PDF] [jstor.org](#)

[HTML] [Global desertification dimensions and costs](#)

[HE Dregne](#), [NT Chou](#) - *Degradation and restoration of arid lands*, 1992 - [ciesin.org](#)

Desertification has been defined by the United Nations Environment Programme (UNEP) as land degradation in arid, semi-arid, and dry subhumid areas resulting mainly from adverse human impact. This 1991 definition is a revision of the definition formulated at the 1977 ...

☆ 99 Cited by 406 Related articles All 3 versions

[HTML] [ciesin.org](#)



Open Knowledge Maps

Their mission



REVOLUTIONIZE DISCOVERY



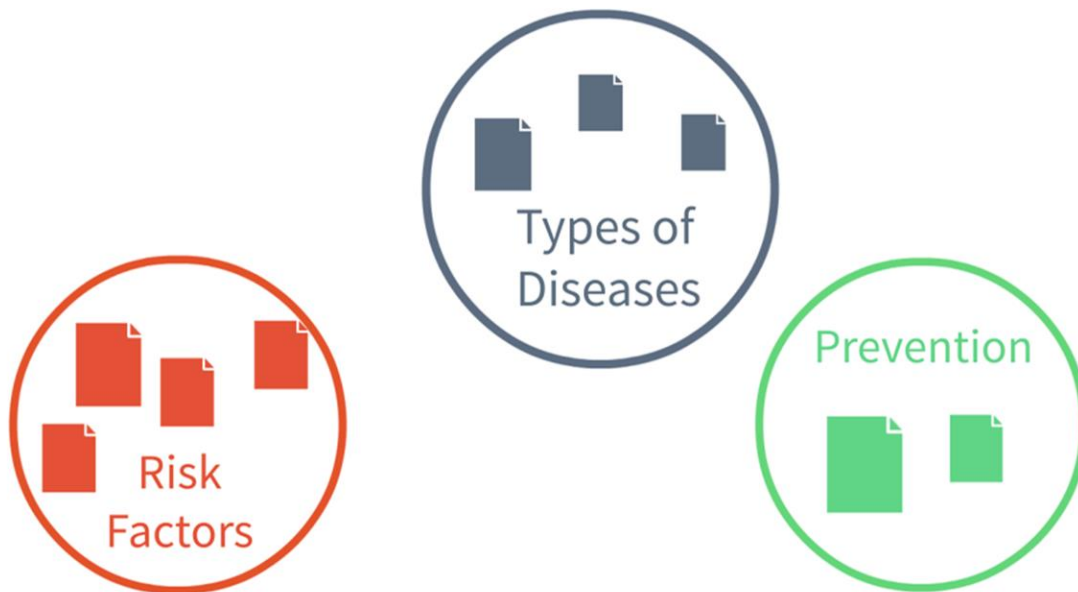
OPEN AND NONPROFIT



A SUSTAINABLE PLATFORM

Knowledge Maps for discovery ...

... instead of lists





beta

Map a research topic

Get an overview - Find papers - Identify relevant concepts



PubMed (life sciences)

BASE (all disciplines)

[Refine your search](#) ▾

Enter your search term

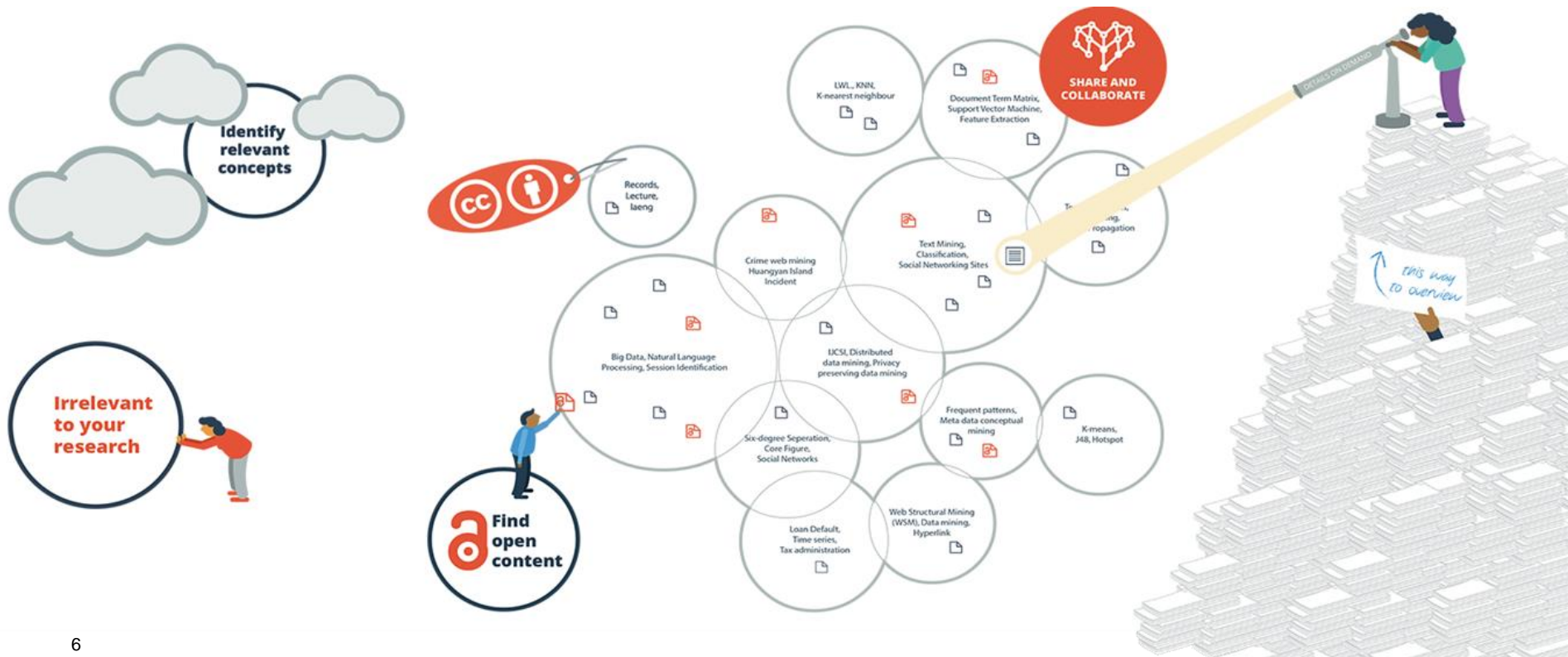
GO

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Based on
240+ million
documents

<https://openknowledgemaps.org>

Advantages



How it works



An Open Knowledge Maps visualization presents you with a topical overview for your search term. It is based on the 100 most relevant documents for your search term.



We use text similarity to create the knowledge maps. The algorithm groups those papers together that have many words in common.



The visualization is intended to give you a head start on your literature search. You can also use Open Knowledge Maps to stay up-to-date - just limit your search to the most recent papers in the options.

Limitations

- Top 100 papers: important papers might be missing
- Only papers with an abstract can be used
- Visualization depends on the search results and metadata quality
- Different languages are not easy to handle

Conclusion

- Helpful tool to create visual overviews of research topics, find papers and identify relevant concepts
- Good starting point for your literature search
- Advantages and limitations
- Interesting to see further development, e.g., collaborative editing

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The Coffee Lectures for Scientists

University Library Bern

Predatory Publishing

1st June

Shedding light on the deceptive publishing industry

Anna Severin, PhD candidate at GHS, University of Bern and SNSF

Journal of visualized experiments (JoVE)

2nd June

How to use it for your research and teaching in the life sciences

Dr. Aline Frank, University Library Bern

Open Knowledge Maps

9th June

A free and open search engine to create visual overviews of research topics

Silvan Christen, University Library Bern

Post publication peer review

23rd June

A chance to improve the publication process and scientific literature quality?

Dr. Nuria Plattner, University Library Bern

The SNSF's ChronoHub pilot project

24th June

A new way to manage your publications from submission to open access and reporting

Dr. Andrea Hacker, University Library Bern

Data Visualization: Excel versus Python

29th June

When to use which approach?

Dr. Michael Horn, University Library Bern

Thank you for your attention

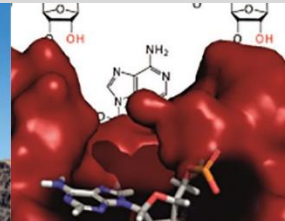
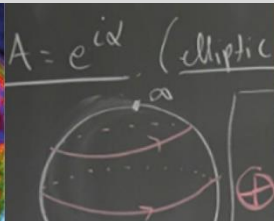
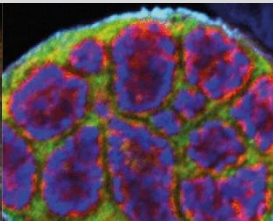
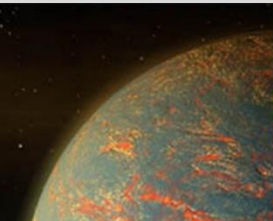
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Coffee & Bit(e)s spring 2021

@ www.unibe.ch/ub/sciencelibrary → see «Coffee & Bit(e)» for lecture notes



Links and articles

FAQs: <https://openknowledgemaps.org/faq#faq-most-relevant>

Roadmap: <https://github.com/OpenKnowledgeMaps/open-discovery/blob/master/roadmap.md>

Kraker, P., Kittel, C., & Enkhbayar, A. (2016). [Open Knowledge Maps: Creating a Visual Interface to the World's Scientific Knowledge Based on Natural Language Processing](#). 027.7 Journal for Library Culture, 4(2), 98–103. doi:10.12685/027.7-4-2-157

Links and articles

Kraker, P., Schramm, M., & Kittel, C. (2019). [Open Knowledge Maps: Visuelle Literatursuche basierend auf den Prinzipien von Open Science](#). *Mitteilungen der Vereinigung Österreichischer Bibliothekarinnen und Bibliothekare*, 72(2), 460-477. doi:10.31263/voebm.v72i2.3202

Further background information:

<https://github.com/OpenKnowledgeMaps/Headstart#Background>

Sources

<https://openknowledgemaps.org/community#training-materials> → Introduction to OKMaps

<https://openknowledgemaps.org/>