



# Open Knowledge Maps

A visual interface to the world's scientific knowledge

**Dr. Peter Kraker**

Co-created with Maxi Schramm

EOSC Researcher Engagement and Use cases

Interest Group

3 September 2020



**OPEN**  
**KNOWLEDGE**  
**MAPS**



SARA GIRONI CARNEVALE

Scientists are drowning in COVID-19 papers. Can new tools keep them afloat?



Articles

About 210.000 results (0,03 sec)

Any time

Since 2020

Since 2019

Since 2016

Custom range...

Sort by relevance

Sort by date

☒ include patents

☒ include citations

☒ Create alert

## COVID-19: consider cytokine storm syndromes and immunosuppression

P Mehta, DF McAuley, M Brown, E Sanchez... - The Lancet, 2020 - thelancet.com


As of March 12, 2020, coronavirus disease 2019 (**COVID-19**) has been confirmed in 125 048 people worldwide, carrying a mortality of approximately 3· 7%, 1 compared with a mortality rate of less than 1% from influenza. There is an urgent need for effective treatment ...

☆  Cited by 586 All 6 versions

## Presumed asymptomatic carrier transmission of COVID-19

Y Bai, L Yao, T Wei, F Tian, DY Jin, L Chen, M Wang - Jama, 2020 - jamanetwork.com

Methods| In January 2020, we enrolled a familial cluster of 5 patients with fever and respiratory symptoms who were admitted to the Fifth People's Hospital of Anyang, Anyang, China, and 1 asymptomatic family member. This study was approved by the local ...

☆  Cited by 693 All 5 versions

## COVID-19 and Italy: what next?

A Remuzzi, G Remuzzi - The Lancet, 2020 - Elsevier

The spread of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has already taken on pandemic proportions, affecting over 100 countries in a matter of weeks. A global response to prepare health systems worldwide is imperative. Although containment ...

☆  Cited by 476 All 35 versions

## An interactive web-based dashboard to track COVID-19 in real time

E Dong, H Du, L Gardner - The Lancet infectious diseases, 2020 - thelancet.com

In December, 2019, a local outbreak of pneumonia of initially unknown cause was detected in Wuhan (Hubei, China), and was quickly determined to be caused by a novel coronavirus, 1 namely severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The outbreak ...

☆  Cited by 572 All 7 versions



## **Uncitedness (publications):**

**7% - 63%** (Nicolaisen & Frandsen 2019)

## **Uncitedness (data):**

**85%** (Peters et al. 2016)

## **Transfer to practice (medicine):**

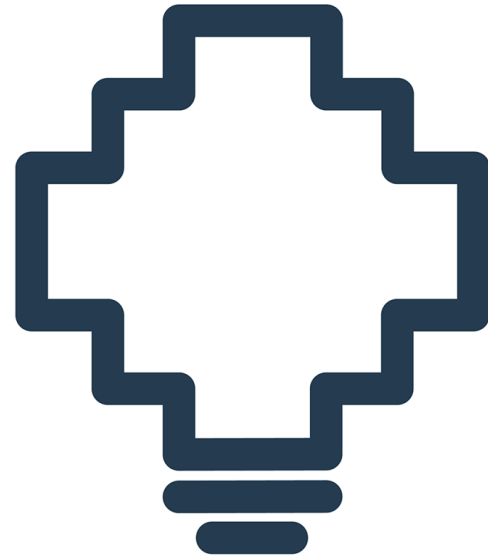
**14%, taking 17 years** (Balas 1998)





# **There is a discoverability crisis**

that negatively impacts quality & efficiency of science, and its transfer to practice.



# OPEN KNOWLEDGE MAPS

Identify  
relevant  
concepts

irrelevant



@OK\_Maps



# Who we are



Open Knowledge Maps is  
**a charitable non-profit organization**

dedicated to dramatically **improving**  
**the visibility of scientific knowledge**

for **science and society alike**



# Overview of heart diseases

---







# Map a research topic <sup>beta</sup>

Get an overview - Find papers - Identify relevant concepts

☐ **PubMed** (life sciences)

☒ **BASE** (all disciplines)

[Refine your search](#) ▼

Enter your search term

**GO**

Try out: [sugar](#) [digital education](#)



Based on  
**150+ million**  
documents

[What is Open Knowledge Maps?](#)

<https://openknowledgemaps.org>

# Advantages



# Largest visual search engine for research

Since May 2016:  
**4+ million** page views  
**250,000+** maps created  
**3000+** participants in workshops





# Team



**Peter Kraker**  
Founder & Chairman



**Maxi Schramm**  
UX Designer & Treasurer



**Christopher Kittel**  
Data Scientist & Secretary



**Jan Konstant**  
Frontend Developer



**Scott Chamberlain**  
Data Sources



**Najmeh Shaghaei**  
Library Liaison



**Thomas Arrow**  
Frontend Developer



**Michela Vignoli**  
Community Coordinator



**Björn Brembs**  
Resident User



**Know Center**  
Organizational member

# Advisors



**Peter Murray-  
Rust**



**Stefanie  
Lindstaedt**



**Natalia Manola**



**Klaus  
Tochtermann**



**Bertil F. Dorch**



**Katja Mayer**



**Falk Reckling**



**Claudia Garád**



**Birgit Schmidt**



**Elena Giglia**



**Daniel Mietchen**



**Michael E.  
Karpeles**



**Elisabeth Lex**



**Isabella Peters**



**Osman Aldirdiri**



**Lambert Heller**



**Tony Ross-  
Hellauer**



**Asura  
Enkhbayar**



**Christian Schlögl**



**Stefan  
Kasberger**



**Stefanie  
Haustein**



**Andreas Ferus**



**Christine Zhang**



**Sebastian  
Dennerlein**



**Antica Culina**



**Robert Gutounig**



**Daniel Dörler**



**Christian Kaer**

# Supporting members





# Networks





# DISCOVERY



OPEN  
KNOWLEDGE MAPS



# All of our services are free & open



## Our offering includes:

- ✓ Innovative search and discovery services
- ✓ Integrations for BASE, PubMed, and OpenAIRE
- ✓ A wide range of training activities and materials
- ✓ Our award-winning visualization software
- ✓ Community support & engagement programs





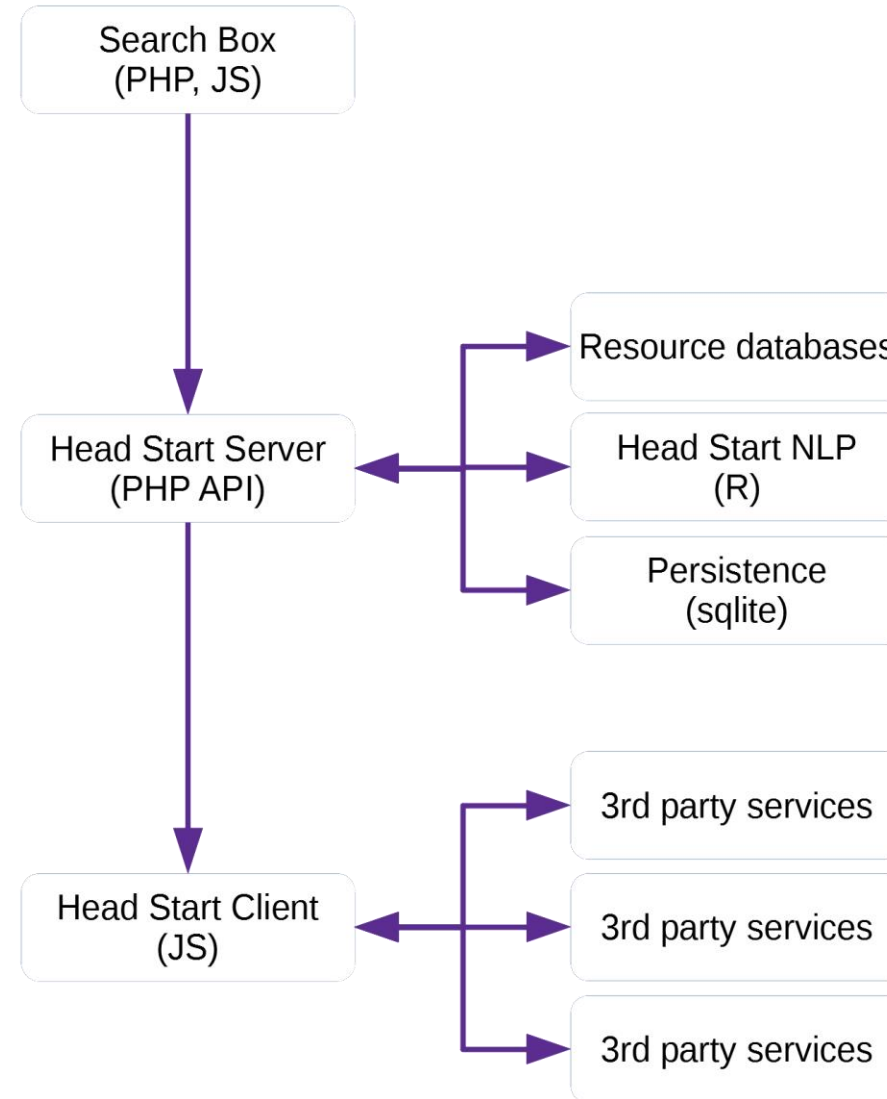
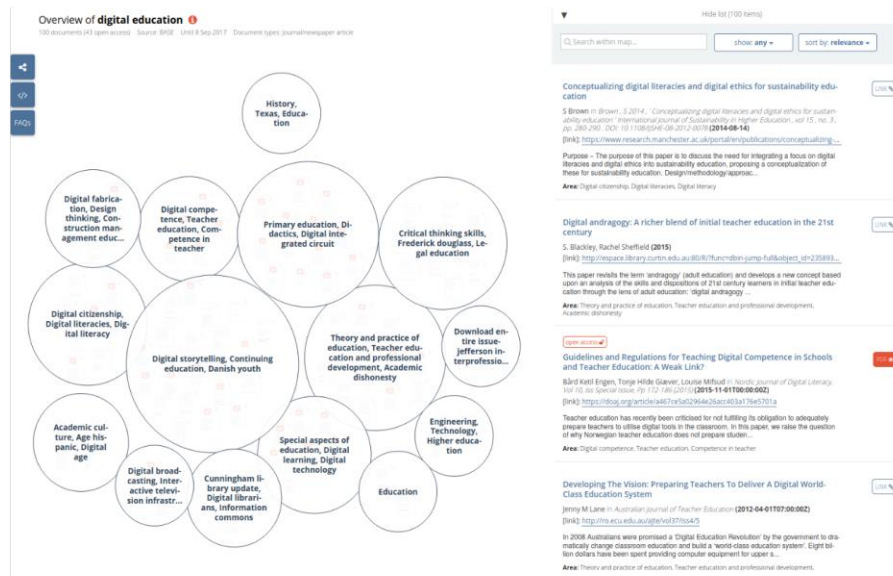
# Architecture

☐ PubMed (life sciences)  
☒ BASE (all disciplines)

Refine your search ▾

Enter your search term

Try out: [sugar](#) [digital education](#)



# THE VISUAL PROJECT EXPLORER

Step 1: Find a project - Step 2: Create an overview

Search projects within the OpenAIRE database with the following funding agency:

EC - European Commission ▼

Search by keywords, project name, grant number, institution etc.

GO

Try it out: Overview of OpenAIRE

Supported by



<https://openknowledgemaps.org/viper>

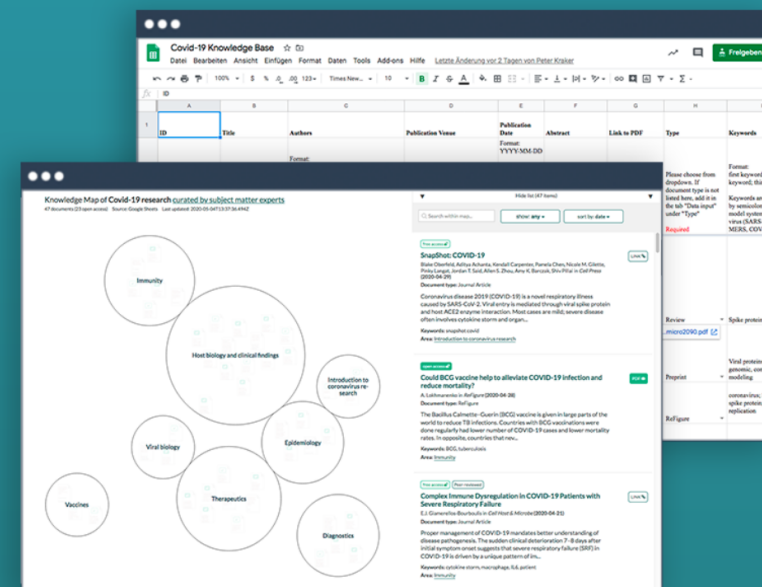
Supported by



# A curated, visual knowledge base for Covid-19 research

In the current pandemic, many researchers seek valid scientific data and findings on Covid-19. To support them, Open Knowledge Maps and ReFigure have launched CoVis. CoVis provides a curated knowledge map of seminal works on Covid-19 research. The knowledge map is constantly evolving thanks to the collective editing of subject-matter experts.

View the Covid-19 Knowledge Map

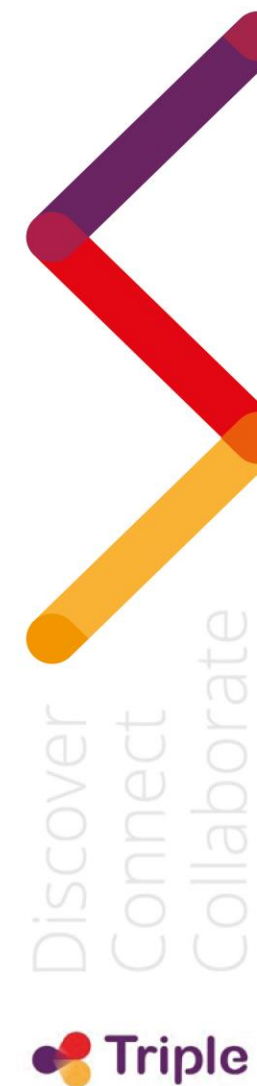


<https://openknowledgemaps.org/covis>





Transforming Research through Innovative  
Practices for Linked Interdisciplinary Exploration



# TRIPLE project: Key facts

An innovative **multilingual and multicultural discovery solution** for the social sciences and humanities (SSH)

Financed under the Horizon 2020 framework with approx. 5.6 million Euros

Will be one of the dedicated **services of OPERAS**, the research infrastructure supporting open scholarly communication in the social sciences and humanities in the European Research Area.

Duration of 42 months (2019–2023)



# TRIPLE Consortium



Discover  
Connect  
Collaborate





## Authors

Filter options

**Keywords:** keyword 1, keyword 2, keyword 3

PDF 

The diagram shows four overlapping circles representing topics. Topic1 is at the top, Topic2 is to the right, Topic3 is to the left, and Topic4 is at the bottom. Topic1 overlaps with Topic3 and Topic4. Topic3 overlaps with Topic4. Topic2 is isolated. Each circle contains several small document icons.

[View Timeline](#) 

Knowledge Map for **femicide**



List of documents (100)

Type in search term

sort: alphabetical

PDF

Keywords: keyword 1, keyword 2, keyword 3

PDF

Keywords: keyword 1, keyword 2, keyword 3

PDF

Keywords: keyword 1, keyword 2, keyword 3

Triple





# Thank you for your attention!

Contact:

Dr. Peter Kraker

[pkraaker@openknowledge maps.org](mailto:pkraaker@openknowledge maps.org)

Twitter: @PeterKraker



**OPEN**  
**KNOWLEDGE**  
**MAPS**