



# 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):**

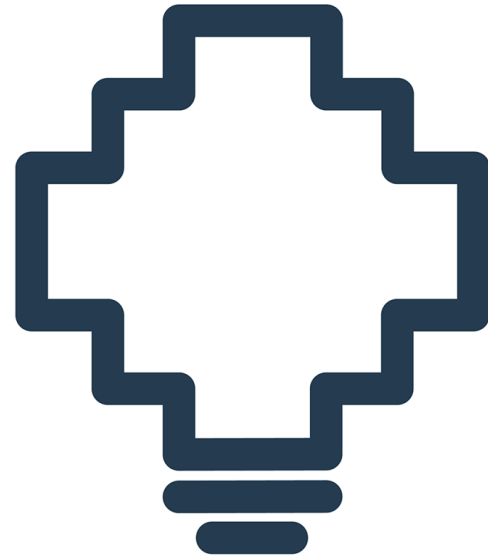
**14%, taking 17 years** (Balas 1998)





# **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

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# 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**



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**Lambert Heller**



**Tony Ross-  
Hellauer**



**Asura  
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**Christian Schlögl**



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Kasberger**



**Stefanie  
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**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





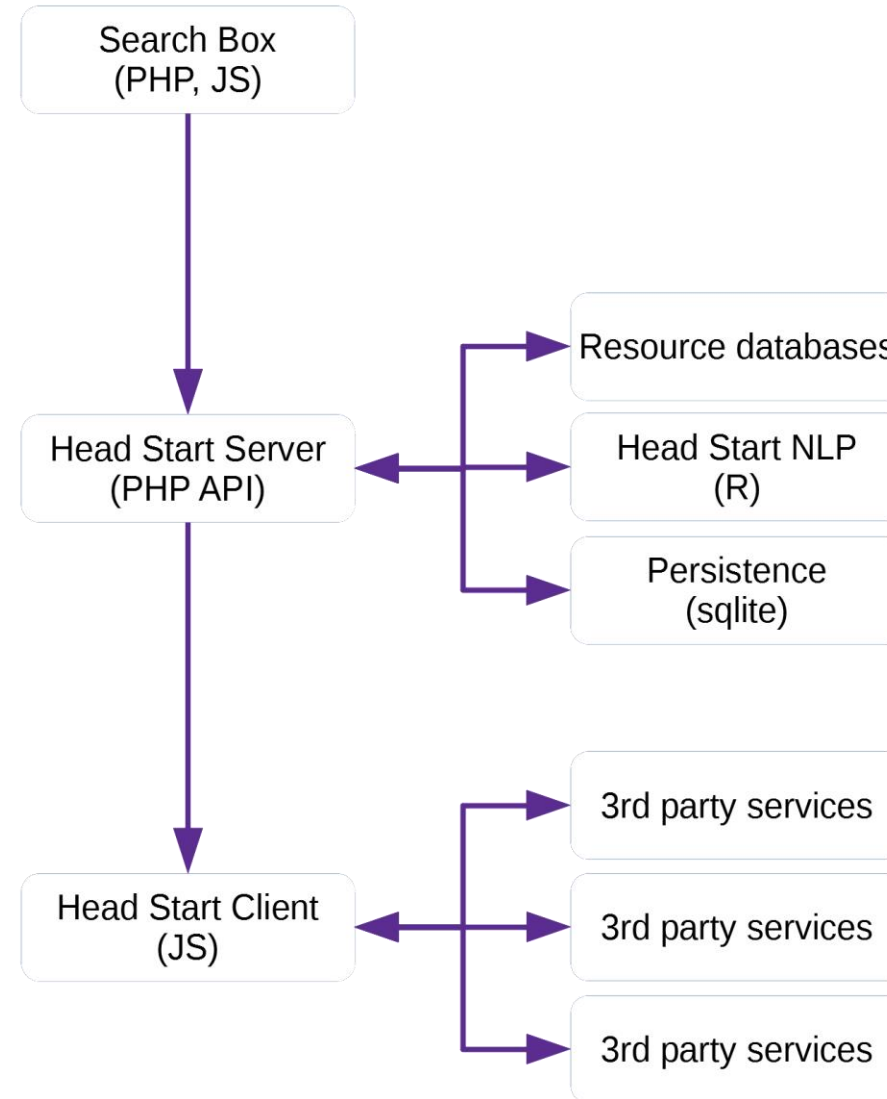
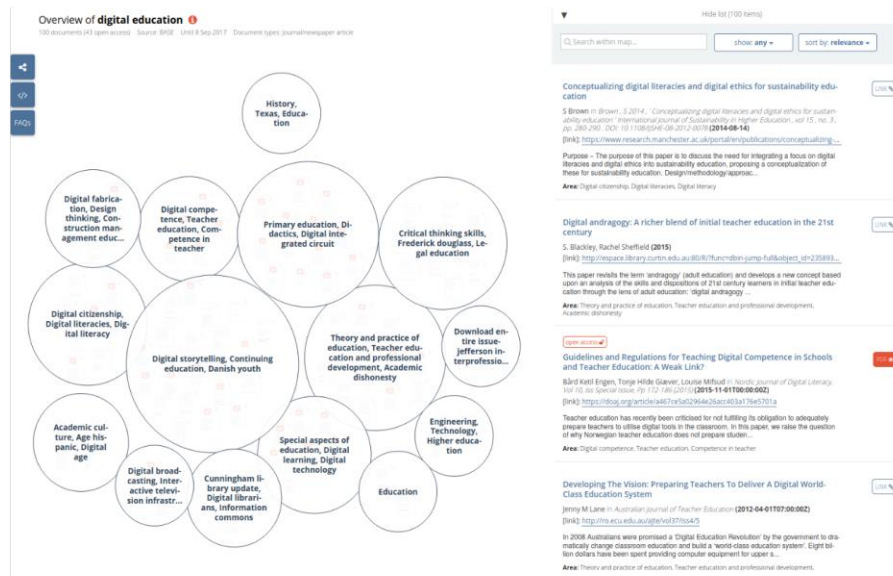
# Architecture

☐ 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>

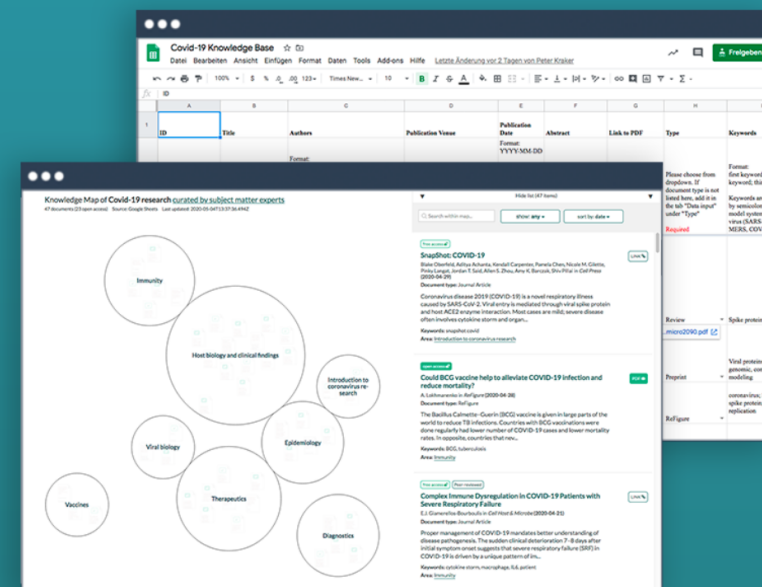
Supported by



# 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

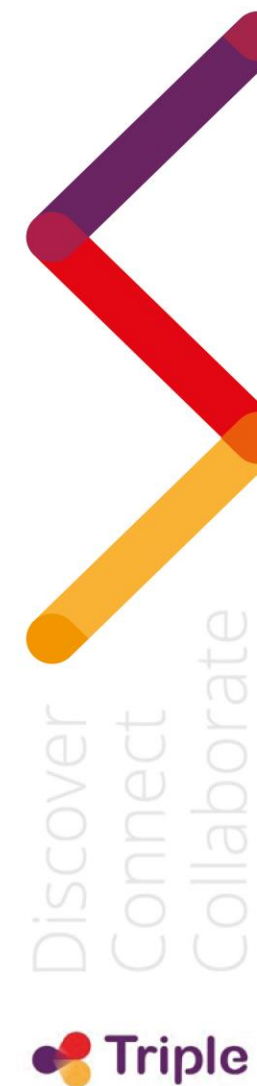


<https://openknowledgemaps.org/covis>





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





Knowledge Map for **femicide**



List of documents (100)

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:

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